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No. **2000-2**

Date: September 3, 1999

SUBJECT: Sea Level Specifications

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	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).

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 600

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	←	←	←	←	Green/Blue 414 768 200	←
Ramp	←	←	←	←	417 005 294	←
Calibration screw position	4	5	3	4	5	6
Pin	←	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←
Engagement RPM ± 100	←	4000	←	←	4200	←
Maximum RPM ± 100	←	←	←	←	8000	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	7.0 15.4	←
Cam angle	° (degrees)	←	←	←	47° 417 126 337	←

Additional Information: Use a 23 teeth sprocket (P/N 504 085 400) at sea level to obtain a chain case ratio of 23/43.

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

CARBURATION

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Calibration						
Main jet	←	←	←	←	280	←
Jet needle	←	←	←	←	7DFY1	←
Needle position	←	←	←	←	3	←
Slide cut-away	←	←	←	←	2.5	←
Pilot jet	←	←	←	←	37.5	←
Air screw	←	←	←	←	1.0	←
Valve seat	←	←	←	←	1.5 (V)	←
Needle jet	←	←	←	←	Z-9 (224)	←
Float level	mm	←	←	←	22.9	←
Idle	RPM ± 200	←	←	←	1600	←
Idle throttle valve position	mm	←	←	←	1.7	←

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	←	←	←	←	300	←	PTO MAG
- 30°C - 20°F	←	←	←	←	290	←	PTO MAG
- 20°C - 4°F	←	←	←	←	280	←	PTO MAG
- 10°C 14°F	←	←	←	←	280	←	PTO MAG
0°C 32°F	←	←	←	←	280	←	PTO MAG
10°C 50°F	←	←	←	←	280	←	PTO MAG
20°C 70°F	←	←	←	←	280	←	PTO MAG

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

NOTE: Shaded columns give factory settings.

SUMMIT 700/700 H.M.

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	←	←	←	←	Violet/Yellow 415 015 300	←
Ramp	←	←	←	←	417 005 293X	←
Calibration screw position	3	4	2	3	4	5
Pin	←	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←
Engagement RPM ± 100	←	←	←	←	3800	←
Maximum RPM ± 100	←	←	←	←	8000	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	7.0 15.4	←
Cam angle	° (degrees)	←	←	←	50°/47° 417 126 339	←

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

CARBURATION

Altitude Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet		←	←	←	←	280	←
Jet needle		←	←	←	←	7DHY6	←
Needle position		←	←	←	←	3	←
Slide cut-away		←	←	←	←	2.5	←
Pilot jet		←	←	←	←	45	←
Air screw		←	←	←	←	1.0	←
Valve seat		←	←	←	←	1.5	←
Needle jet		←	←	←	←	Z-7 (224)	←
Float level	mm	←	←	←	←	22.9	←
Idle	RPM ± 200	←	←	←	←	1600	←
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.2

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	←	←	←	←	300	←	PTO MAG
- 30°C - 20°F	←	←	←	←	290	←	PTO MAG
- 20°C - 4°F	←	←	←	←	280	←	PTO MAG
- 10°C 14°F	←	←	←	←	280	←	PTO MAG
0°C 32°F	←	←	←	←	280	←	PTO MAG
10°C 50°F	←	←	←	←	280	←	PTO MAG
20°C 70°F	←	←	←	←	280	←	PTO MAG

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

NOTE: Shaded columns give factory settings.

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SNOWMOBILES



SERVICE
Bulletin

No. **2000-4**

Date: September 24, 1999

SUBJECT: Spring Chart

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
2000	All (except utility models)	All	All

This bulletin is divided into 2 main sections.

Section 1: Spring Applications

It is a quick reference chart which provides authorized spring application for each Ski-Doo model. It contains the standard spring part number (in gray shading) as installed at the factory, as well as 1 softer spring and 1 harder spring recommendation.

Section 2: Spring Specifications

Refers to spring specifications.

The informations in this bulletin supersede all informations previously published.

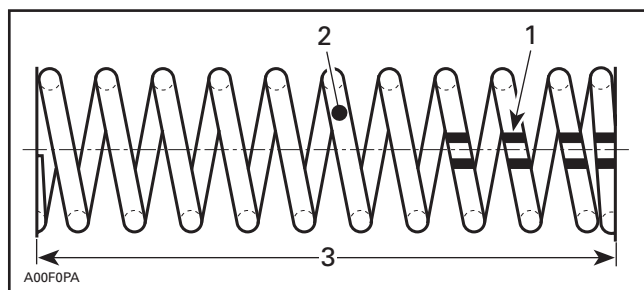
Please update your *Shop Manual* by indicating the number of this bulletin in the proper section of the manual.

COIL SPRINGS (compression)

NOTE: Read color when spring is upright and stripes are down.

Type R (straight on both ends)

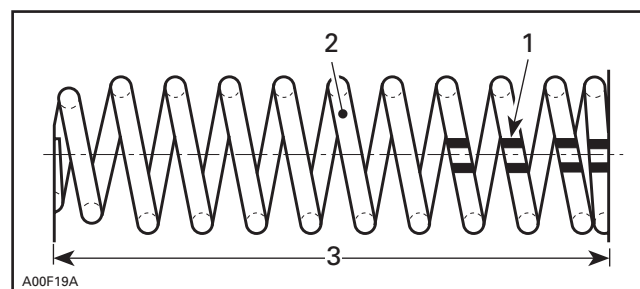
(Single Rate Spring)



1. Color code stripes
2. Wire diameter
3. Free length

Type S (barrel shape on one end)

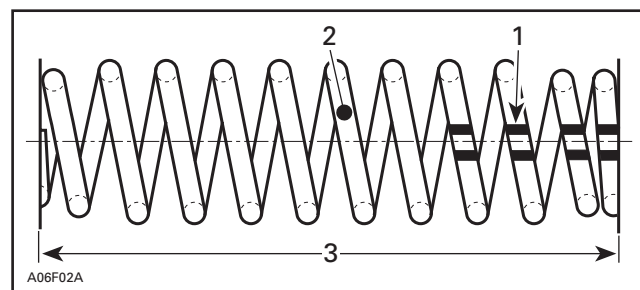
(Single Rate Spring)



1. Color code stripes
2. Wire diameter
3. Free length

Type T (barrel shape on both ends)

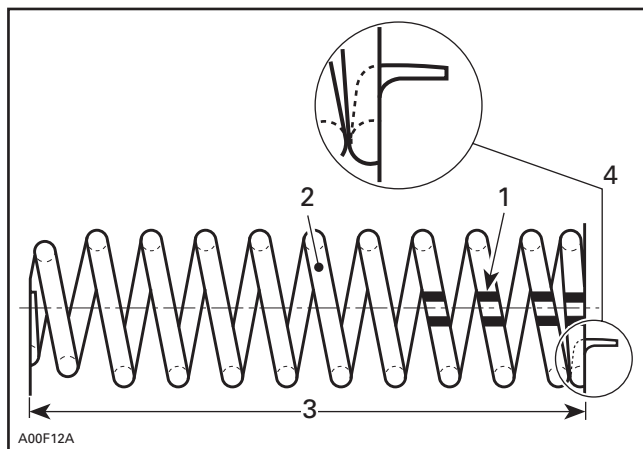
(Single Rate Spring)



1. Color code stripes
2. Wire diameter
3. Free length

Type U (barrel shape on one end with positioning tab at the other end)

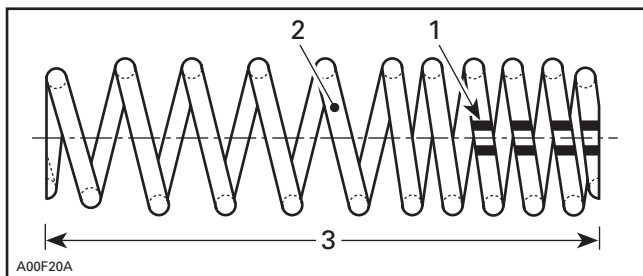
(Single Rate Spring)



1. Color code stripes
2. Wire diameter
3. Free length
4. Positioning tab

Type 2 (barrel shape on both ends)

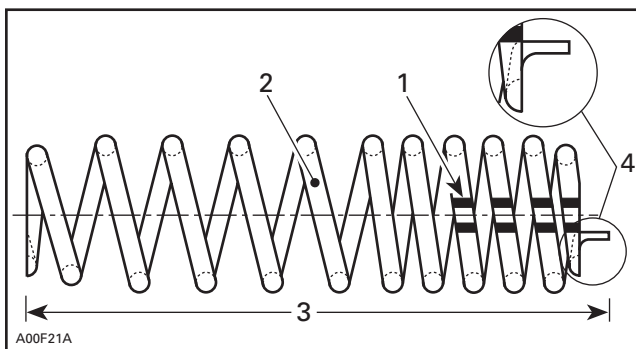
(Dual Rate Spring)



1. Color code stripes
2. Wire diameter
3. Free length

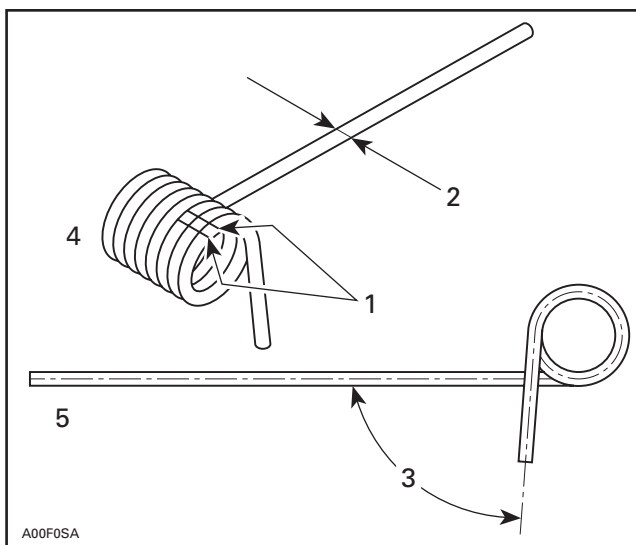
Type 4 (barrel shape on both ends with positioning tab at the color code coils end)

(Dual Rate Spring)



1. Color code stripes
2. Wire diameter
3. Free length
4. Positioning tab

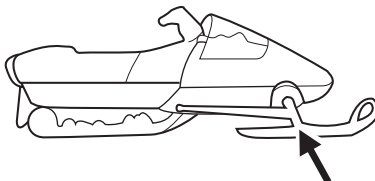
TORSION SPRINGS



1. Color code stripes
2. Wire diameter
3. Opening angle (°)
4. Left hand (LH)
5. Right hand (RH)

SECTION 1

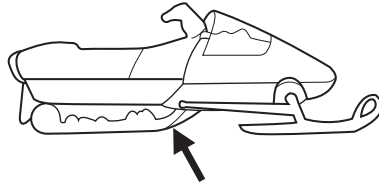
SPRING APPLICATIONS

2000		FRONT SPRINGS		2000	
					
MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING		
MACH Z	414 956 300	415 075 900	415 039 700		
MACH Z MILLENNIUM	414 956 300	505 070 473	415 039 700		
MACH 1	414 956 300	414 976 100	415 039 700		
FORMULA III 800	Not Applicable	505 070 153	505 070 298		
FORMULA III 700	Not Applicable	505 070 153	505 070 298		
FORMULA Z 700	Not Applicable	505 070 393	Not Applicable		
FORMULA Z 600	Not Applicable	505 070 393	Not Applicable		
FORMULA DE LUXE 700	Not Applicable	505 070 392	Not Applicable		
FORMULA DE LUXE 600	Not Applicable	505 070 392	Not Applicable		
FORMULA DE LUXE 500	414 956 300	415 035 900	415 039 700		
FORMULA 500 LC	414 956 300	415 075 900	415 039 700		
FORMULA DE LUXE 380	414 956 300	415 035 900	415 039 700		
FORMULA DE LUXE 503	414 956 300	415 035 900	415 039 700		
FORMULA S	414 956 300	415 075 900	415 039 700		
MX Z 700	Not Applicable	505 070 181	Not Applicable		
MX Z 700 MILLENNIUM	Not Applicable	505 070 474	Not Applicable		
MX Z 600	Not Applicable	505 070 181	Not Applicable		
MX Z 500	Not Applicable	505 070 393	Not Applicable		
MX Z 440 F	414 956 300	415 035 900	415 039 700		
SUMMIT 700	Not Applicable	505 070 020	505 070 305		
SUMMIT 700 MILLENNIUM	Not Applicable	505 070 475	505 070 305		
SUMMIT 700 HM	Not Applicable	505 070 020	505 070 305		
SUMMIT 600	Not Applicable	505 070 020	505 070 305		
GRAND TOURING SE	Not Applicable	505 070 092	505 070 298		
GRAND TOURING SE MILLENNIUM	Not Applicable	505 070 391	505 070 298		
GRAND TOURING 700	Not Applicable	505 070 391	505 070 298		
GRAND TOURING 600	Not Applicable	505 070 392	Not Applicable		
TOURING 500	414 956 300	415 035 900	415 039 700		
TOURING SLE	414 956 300	415 035 900	415 039 700		
TOURING LE	414 956 300	415 035 900	415 039 700		
TOURING E	414 956 300	415 035 900	415 039 700		
SKANDIC 500	414 859 300	414 955 800	414 968 600		
SKANDIC 380	414 859 300	414 955 800	414 968 600		
TUNDRA R	Not Applicable	505 070 130	Not Applicable		

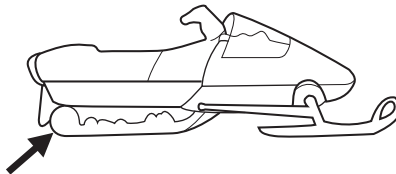
2000

CENTER SPRINGS

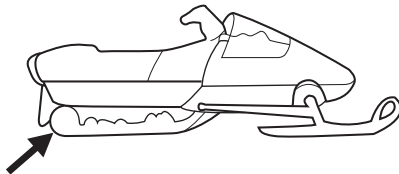
2000



MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	415 070 400	415 090 500 415 090 600	415 103 600
MACH Z MILLENNIUM	415 070 400	415 090 500 415 090 600	415 103 600
MACH 1	415 070 400	415 090 500 415 090 600	415 103 600
FORMULA III 800	415 070 400	415 103 600	415 057 500
FORMULA III 700	415 070 400	415 103 600	415 057 500
FORMULA Z 700	415 070 500	503 189 325	Not Applicable
FORMULA Z 600	415 070 500	503 189 325	Not Applicable
FORMULA DE LUXE 700	415 070 500	503 189 325	Not Applicable
FORMULA DE LUXE 600	415 070 500	503 189 325	Not Applicable
FORMULA 500 LC	414 974 400	415 070 400	415 103 600
FORMULA DE LUXE 500	414 974 400	415 070 400	415 103 600
FORMULA DE LUXE 380	414 974 400	415 069 900	414 771 300
FORMULA S	414 974 400	415 069 900	414 771 300
FORMULA DE LUXE 503	414 974 400	415 069 900	414 771 300
MX Z 700	415 070 500	503 189 325	Not Applicable
MX Z 600	415 070 500	503 189 325	Not Applicable
MX Z 500	415 070 500	503 189 325	Not Applicable
MX Z 440 F	414 859 300	415 070 100	415 070 500
SUMMIT 700	414 859 300	415 070 100	415 070 500
SUMMIT 700 HM	414 859 300	415 070 100	415 070 500
SUMMIT 600	414 859 300	415 070 100	415 070 500
GRAND TOURING SE	415 057 500	415 057 600	415 070 700
GRAND TOURING 700	415 057 500	415 057 600	415 070 700
GRAND TOURING 600	415 035 900	415 057 500	415 057 600
TOURING 500	415 035 900	415 070 600	415 057 600
TOURING SLE	415 070 400	415 103 600	415 057 500
TOURING LE	414 974 400	415 069 900	414 771 300
TOURING E	414 974 400	415 069 900	414 771 300
SKANDIC 500	414 974 400	503 189 000	414 771 300
SKANDIC 380	414 974 400	503 189 000	414 771 300
TUNDRA R	Not Applicable	Not Applicable	Not Applicable

2000		REAR SPRINGS		2000			
							
MODEL		(P/N) SOFTER SPRING		(P/N) STANDARD		(P/N) HARDER SPRING	
MACH Z		503 189 335 LH 503 189 334 RH		503 188 200 LH 503 188 100 RH		503 189 339 LH 503 189 338 RH	
MACH Z MILLENNIUM		503 189 335 LH 503 189 334 RH		503 188 200 LH 503 188 100 RH		503 189 339 LH 503 189 338 RH	
MACH 1		503 189 335 LH 503 189 334 RH		503 188 200 LH 503 188 100 RH		503 189 339 LH 503 189 338 RH	
FORMULA III 800		503 189 343 LH 503 189 342 RH		503 189 339 LH 503 189 338 RH		503 189 359 LH 503 189 358 RH	
FORMULA III 700		503 189 343 LH 503 189 342 RH		503 189 339 LH 503 189 338 RH		503 189 359 LH 503 189 358 RH	
FORMULA Z 700		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH		503 189 339 LH 503 189 338 RH	
FORMULA Z 600		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH		503 189 339 LH 503 189 338 RH	
FORMULA DE LUXE 700		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH		503 189 339 LH 503 189 338 RH	
FORMULA DE LUXE 600		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH		503 189 339 LH 503 189 338 RH	
FORMULA DE LUXE 500		503 189 355 LH 503 189 354 RH		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH	
FORMULA 500 LC		503 189 355 LH 503 189 354 RH		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH	
FORMULA DE LUXE 503		Not Applicable		503 189 347 LH 503 189 346 RH		503 189 355 LH 503 189 354 RH	
FORMULA DE LUXE 380		Not Applicable		503 189 347 LH 503 189 346 RH		503 189 355 LH 503 189 354 RH	
FORMULA S		Not Applicable		503 189 347 LH 503 189 346 RH		503 189 355 LH 503 189 354 RH	
MX Z 700		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH		503 189 339 LH 503 189 338 RH	
MX Z 600		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH		503 189 339 LH 503 189 338 RH	
MX Z 500		503 189 343 LH 503 189 342 RH		503 189 445 LH 503 189 443 RH		503 189 339 LH 503 189 338 RH	
MX Z 440 LC		To be determined		To be determined		To be determined	
MX Z 440 F		503 189 347 LH 503 189 346 RH		503 189 355 LH 503 189 354 RH		503 189 343 LH 503 189 342 RH	
SUMMIT 700		503 189 347 LH 503 189 346 RH		503 189 355 LH 503 189 354 RH		503 189 343 LH 503 189 342 RH	

LH = Left Hand RH = Right Hand

2000		REAR SPRINGS		2000
				
MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING	
SUMMIT 600	503 189 347 LH 503 189 346 RH	503 189 355 LH 503 189 354 RH	503 189 343 LH 503 189 342 RH	
SUMMIT 700 HM	503 189 347 LH 503 189 346 RH	503 189 355 LH 503 189 354 RH	503 189 343 LH 503 189 342 RH	
GRAND TOURING SE	503 189 355 LH 503 189 354 RH	503 189 343 LH 503 189 342 RH	503 189 445 LH 503 189 443 RH	
GRAND TOURING 700	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	503 189 329 LH 503 189 327 RH	
GRAND TOURING 600	503 189 343 LH 503 189 342 RH	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	
TOURING 500	503 189 343 LH 503 189 342 RH	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	
TOURING SLE	503 189 343 LH 503 189 342 RH	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	
TOURING LE	503 189 343 LH 503 189 342 RH	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	
TOURING E	503 189 343 LH 503 189 342 RH	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	
SKANDIC 500	503 189 343 LH 503 189 342 RH	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	
SKANDIC 380	503 189 343 LH 503 189 342 RH	503 189 339 LH 503 189 338 RH	503 189 359 LH 503 189 358 RH	
TUNDRA R	Not Applicable	414 880 200 LH 414 880 300 RH	503 189 252 LH 503 189 251 RH	

LH = Left Hand RH = Right Hand

SECTION 2

SPRING SPECIFICATIONS

Coil Springs Specifications

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) $\pm .05$	COLOR CODE STRIPES	COLOR OF SPRING
291 000 794	R	100	215	6.65	PI/WH	BLACK
414 771 300	R	135	272.5	8.41	BK/BK	SAFARI RED
414 782 300	R	225	165	8.41	BK	SAFARI RED
414 788 200	R	150	272.5	8.41	BK/YL	SAFARI RED
414 789 400	R	135	272.5	8.41	BK/BK	AQUA BLUE
414 797 700	R	135	272.5	8.41	BK/BK	FLAME RED
414 797 800	R	135	272.5	8.41	BK/BK	PEARL BLUE
414 797 900	R	135	272.5	8.41	BK/BK	VIOLET
414 803 000	R	65	408	6.17	BL/OR	BLACK
414 808 800	R	120	272.5	7.77	BK/OR	SAFARI RED
414 809 300	R	160	213.1	7.77	WH	BLACK
414 809 500	R	150 ± 5	256.8	7.92	BK	YELLOW
414 810 100	R	125 ± 5	256.8	7.49	WH	YELLOW
414 859 300	R	90 ± 7	239	7.14	BK/WH	YELLOW
414 861 600	R	135	272.5	8.41	BK/BK	YELLOW
414 869 000	R	125 ± 5	256.8	7.49	WH	SAFARI RED
414 871 600	R	150 ± 5	256.8	7.92	WH	VIOLET
414 877 800	R	160 ± 7	223.1	7.92	WH/WH	BLACK
414 891 000	R	100 ± 7	260	7.14	WH/BK	SAFARI RED
414 893 800	R	185 ± 7	213	8.41	GN/GN	YELLOW
414 895 100	R	100	255	7.14	PI/GD	BLACK
414 916 800	R	90 ± 7	239	7.14	RD	FIREFLY GREEN
414 928 100	R	110	256.8	7.77	GD/BK	SAFARI RED
414 928 600	R	100 ± 7	260	7.14	GD	RASPBERRY
414 929 300	R	110	256.8	7.77	BK/RD	PEARL BLUE
414 929 500	R	100 ± 7	260	7.14	RD/YL	PEARL BLUE
414 940 200	R	140 ± 7	223	7.77	WH/GN	BLACK
414 955 800	R	100	239	7.14	RD/GN/GN	BLACK
414 955 900	R	125 ± 5	256.8	7.49	BK/RD	NEON GREEN
414 956 000	R	125 ± 5	256.8	7.49	BL/RD	BLACK
414 956 100	R	125 ± 5	256.8	7.49	BL/BL/BL	VIPER RED
414 956 200	R	115	242	7.77	PI/BL	BLACK
414 956 300	R	100	265	7.14	PI/WH/BL	YELLOW
414 956 400	R	100 ± 7	260	7.14	RD/YL/BL	ROYAL VIOLET

SPRING COLOR CODES

BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED
 SI = SILVER WH = WHITE YL = YELLOW

P/N	TYPE	SPRING RATE (lbs/in) $\pm$ 10	FREE LENGTH (mm) $\pm$ 3	WIRE DIAMETER (mm) $\pm$.05	COLOR CODE STRIPES	COLOR OF SPRING
414 956 500	R	100 $\pm$ 7	260	7.14	BL/YL/GN	VIPER RED
414 956 800	R	100 $\pm$ 7	260	7.14	RD/YL	NEON GREEN
414 968 600	R	125	235	7.49	RD	NEON GREEN
414 974 400	R	90	265	7.14	GN/OR	BLACK
414 974 500	R	115	265	7.49	OR/WH	BLACK
414 976 000	R	135	242	8.25	PI/GN	BLACK
414 976 100	R	125	262	7.92	PI/YL	VIPER RED
415 012 900	R	115	260	7.92	PI/YL	BLACK
415 016 700	R	200	230	8.71	PI/OR/YL	BLACK
415 013 800	R	150	264	7.77	BK/PI/WH	NEON GREEN
415 013 900	R	150	264	7.77	PI/WH/YL	ROYAL VIOLET
415 014 200	R	150	264	7.77	GN/OR/BL	PEARL BLUE
415 014 500	R	150	264	7.77	BK/WH/OR	VIPER RED
415 020 600	R	125	203.2	7.77	4 Green lines	BLACK
415 020 700	R	150	203.2	7.92	4 Red lines	BLACK
415 020 800	R	70	152	5.73	4 Blue lines	BLACK
415 020 900	R	150	190.5	8.29	4 Pink lines	BLACK
415 035 500	R	125	262	7.92	SI/GN	YELLOW
415 035 600	R	125	235	7.49	OR	FRENCH BLUE
415 035 700	R	125	262	7.92	SI/OR	JAY BLUE
415 035 800	R	125	262	7.92	SI/PI	FIR GREEN
415 035 900	R	125	262	7.92	YL	BLACK
415 038 500	R	100	265	7.14	SI/GD	VIPER RED
415 039 600	R	150	235	8.41	GN	BLACK
415 039 700	R	150	258	8.71	PI	BLACK
415 039 800	R	140	257	8.71	SI	BLACK
415 039 900	R	150	238	8.71	SI/WH	BLACK
415 040 000	R	130	250	8.25	SI/SI	BLACK
415 040 100	R	215	218	9.19	OR/PI	BLACK
415 057 500	R	160	264	8.71	RD/GD	BLACK
415 058 200	R	115	270	7.92	GN/GD	BLACK
415 069 600	R	300	170	9.50	YL/BK/YL	BLACK
415 075 800	R	125	262	7.92	PI/RD/BK	FRENCH BLUE
415 075 900	R	125	262	7.92	BL/RD/BK	YELLOW
415 076 000	R	100	265	7.14	RD/RD/BK	YELLOW
415 083 700	R	125	235	7.49	OR/RD/BK	YELLOW
415 090 300	R	376	76	8.25	GD/RD/YL	BLACK
415 090 500	R	293	45	6.17	YL/BL/YL	BLACK
415 095 200	R	75	408	6.17	BL/BL/YL	BLACK

SPRING COLOR CODES						
BK = BLACK	BL = BLUE	GD = GOLD	GN = GREEN	OR = ORANGE	PI = PINK	RD = RED
SI = SILVER	WH = WHITE	YL = YELLOW				

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) $\pm .05$	COLOR CODE STRIPES	COLOR OF SPRING
503 100 700	R	65	290	6.35	BL/YL	BLACK
505 070 089	R	125	262	7.92	GN/BK/BK	GOLDEN WHEAT
505 070 130	R	75	408	6.17	YL/PI/YL	BLACK
505 070 473	R	125	262	7.92	BK/YL/RD	SILVER REFLECTION
415 090 400	S	359	215	10.60	WH/RD/YL	BLACK
415 090 600	S	220	210	9.19	RD/BL/YL	BLACK
415 110 400	S	400	215	11.10	YL/OR/YL	BLACK
414 809 100	T	125 ± 5	274	7.92	GD	YELLOW
414 815 500	T	135	259	7.77	BK/WH	VIOLET
414 852 800	T	100 ± 7	279	7.92	RD	YELLOW
414 871 300	T	125 ± 5	274	7.92	GD	SAFARI RED
414 871 500	T	125 ± 5	274	7.92	GD	VIOLET
414 894 100	T	112 ± 7	279.4	8.41	BK/GN	YELLOW
414 916 900	T	100 ± 7	279	7.92	BK/WH	FIREFLY GREEN
414 925 400	T	100 ± 7	279	7.92	WH/BK	SAFARI RED
414 926 000	T	100 ± 7	279	7.49	BK	RASPBERRY
414 926 900	T	110	279.4	7.77	GN/YL	SAFARI RED
414 927 100	T	110	279.4	7.77	BK/YL	PEARL BLUE
414 927 500	T	100 ± 7	279	7.92	RD/WH	PEARL BLUE
414 988 600	T	100 ± 7	279	7.49	PI/PI	BLACK
414 998 600	T	100 ± 7	279	7.49	BK/PI	SAFARI RED
415 006 900	T	150 ± 7	272.5	8.41	BK/YL	FIREFLY GREEN
415 007 000	T	135 ± 7	272.5	8.41	BK/BK	FIREFLY GREEN
415 014 300	T	150	264	7.77	GN/OR/PI	CAN-AM RED
415 057 500	T	160	264	8.71	RD/GD	BLACK
415 057 600	T	180	260	9.52	BL/GD	BLACK
415 069 900	T	115	265	7.49	SI/YL/YL	BLACK
415 070 000	T	135	242	8.25	WH/YL/YL	BLACK
415 070 100	T	115	242	7.92	GD/YL/YL	BLACK
415 070 200	T	115	270	7.92	PI/YL/YL	BLACK
415 070 300	T	100	264	7.49	OR/YL/YL	BLACK
415 070 400	T	115	270	8.25	GN/YL/YL	BLACK
415 070 500	T	135	242	8.41	BL/YL/YL	BLACK
415 070 600	T	160	264	9.19	RD/YL/YL	BLACK
415 070 700	T	200	263	9.52	YL/YL/YL	BLACK
415 071 000	T	150	242	8.71	SI/RD/YL	BLACK
415 079 300	T	85	290	7.77	RD/BL/BK	YELLOW
415 079 400	T	85	315	8.25	RD/GN/BK	YELLOW

SPRING COLOR CODES

BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED
SI = SILVER WH = WHITE YL = YELLOW

P/N	TYPE	SPRING RATE (lbs/in) $\pm$ 10	FREE LENGTH (mm) $\pm$ 3	WIRE DIAMETER (mm) $\pm$.05	COLOR CODE STRIPE	COLOR OF SPRING
415 079 500	T	85	290	7.77	GN/RD/YL	VIPER RED
415 079 600	T	85	315	8.25	OR/RD/YL	FRENCH BLUE
415 079 700	T	85	315	8.25	PI/YL/RD	PLATINUM
415 103 600	T	135	264	8.25	GN/GN/YL	BLACK
503 127 200	T	170	258	8.71	BL/GN	BLACK
503 135 400	T	250	300	10.31	RD/OR	BLACK
503 189 000	T	115	265	7.92	YL/GD/YL	BLACK
503 189 325	T	150	242	8.25	YL/SI/YL	BLACK
505 070 020	T	90	250	7.77	BK/OR/BK	YELLOW
505 070 093	T	85	290	7.77	BK/GN/BK	GRAND CANYON RED
505 070 144	T	100	290	8.25	RD/BK/RD	YELLOW
505 070 146	T	100	315	8.71	RD/RD/RD	YELLOW
505 070 240	T	90	265	7.49	RD/PI/BK	YELLOW
505 070 305	T	105	250	8.25	RD/OR/BK	YELLOW
505 070 475	T	90	250	7.77	BK/YL/GN	SILVER REFLECTION
415 108 100	U	125	260	8.25	BK/RD/BK	YELLOW
505 070 233	U	125	262	7.92	PI/BL/BK	YELLOW
505 070 300	U	150	258	8.71	GN/PI/BK	YELLOW
505 070 302	U	100	265	7.14	OR/PI/BK	YELLOW
505 070 091	2	65 - 95	340	8.25	BK/BL/BK	GOLDEN WHEAT
505 070 092	2	65 - 95	340	8.25	BK/YL/BK	GRAND CANYON RED
505 070 153	2	65 - 95	340	8.25	GN/GN/BK	YELLOW
505 070 298	2	70 - 100	340	8.25	BL/PI/BK	YELLOW
505 070 391	2	65 - 95	340	8.25	YL/BK/BK	SILVER REFLECTION
505 070 392	2	55 - 85	320	7.77	RD/GD/YL	BLACK
505 070 393	2	55 - 85	320	7.77	RD/BL/RD	YELLOW
505 070 181	4	55 - 85	320	7.77	PI/BK/BK	YELLOW
505 070 474	4	55 - 85	320	7.77	BK/YL/BL	SILVER REFLECTION

SPRING COLOR CODES						
BK = BLACK	BL = BLUE	GD = GOLD	GN = GREEN	OR = ORANGE	PI = PINK	RD = RED
SI = SILVER	WH = WHITE	YL = YELLOW				

Torsion Springs Specification

P/N	WIRE DIAMETER (mm)	OPENING ANGLE ± 7°	COLOR CODE	COLOR OF SPRING
414 866 300 LH 414 866 200 RH	10.3	85°	YL	BLACK
414 880 200 LH 414 880 300 RH	9.5	100°	Not Applicable	BLACK
414 880 500 LH 414 880 400 RH	10.3	12°	Not Applicable	BLACK
414 943 600 LH 414 943 500 RH	10.6	90°	WH	BLACK
414 944 300 LH 414 944 200 RH	11.11	90°	GN	BLACK
415 010 600 LH 415 010 500 RH	10.6	80°	RD	BLACK
415 060 800 LH 415 060 700 RH	11.11	80°	BL	BLACK
415 069 400 LH 415 069 300 RH	11.11	100°	OR	BLACK
486 071 200 LH 486 071 100 RH	10.3	135°	YL/YL	BLACK
486 071 400 LH 486 071 300 RH	10.3	150°	WH/WH	BLACK
503 188 200 LH 503 188 100 RH	11.11	100°	BL/YL	BLACK
503 189 083 LH 503 189 080 RH	11.5	100°	GD	BLACK
503 189 242 LH 503 189 241 RH	11.11	105°	OR/YL	BLACK
503 189 252 LH 503 189 251 RH	10.3	95°	RD/RD	BLACK
503 189 329 LH 503 189 327 RH	11.89	100°	SI	BLACK
503 189 335 LH 503 189 334 RH	11.11	105°	YL/GD	BLACK
503 189 339 LH 503 189 338 RH	11.11	90°	GN/GN	BLACK
503 189 343 LH 503 189 342 RH	10.6	80°	RD/RD/RD	BLACK
503 189 347 LH 503 189 346 RH	10.3	85°	YL/YL/YL	BLACK
503 189 355 LH 503 189 354 RH	10.6	90°	WH/WH/WH	BLACK
503 189 359 LH 503 189 358 RH	11.11	80°	BL/BL	BLACK
503 189 445 LH 503 189 443 RH	11.11	95°	GN/GN/GN	BLACK

LH = Left Hand

RH = Right Hand

SPRING COLOR CODES

BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED
SI = SILVER WH = WHITE YL = YELLOW

Please route to :

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☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



**SERVICE
Bulletin**

No. 2000-3

Date: September 24, 1999

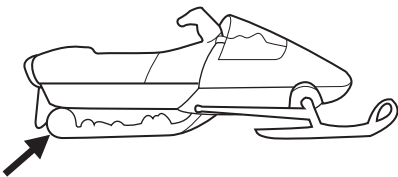
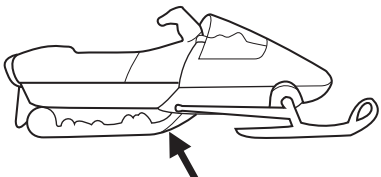
SUBJECT: Spring Reference According to Load

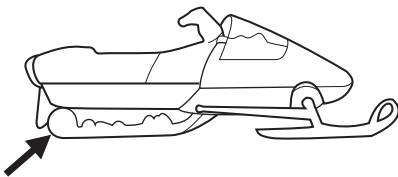
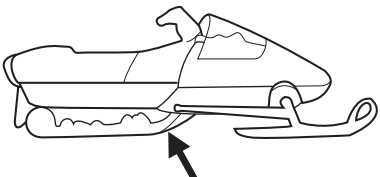
YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	All (except utility models)	All	All

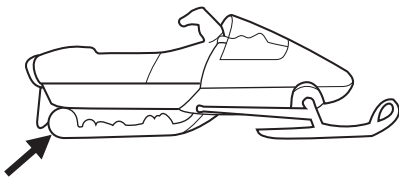
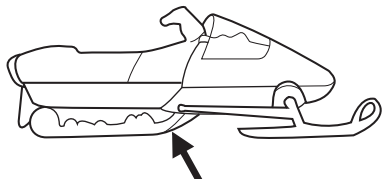
The following tables are intended to annex suspension decal on snowmobiles. These tables describe additional settings for optimum comfort according to load.

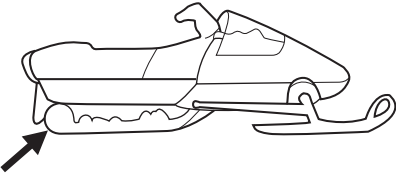
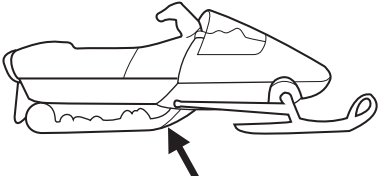
NOTE: The A.C.M. (Accelerator and Control Modulator) nut must be fully tightened when performing suspension adjustments (see *Operator's Guide*). **Following table gives a quick access to proper page.**

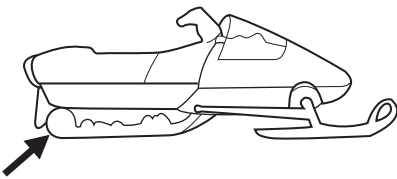
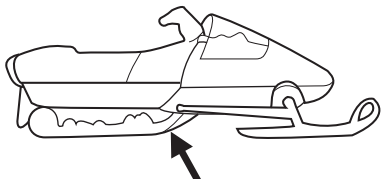
MODEL NAME	PAGE	MODEL NAME	PAGE
Formula 500 LC (Can/U.S.)	10	Mach Z	12
Formula 500 LC (Europe)	11	MX Z 440 F	7
Formula III 700	19	MX Z 500 (Can/U.S.)	15
Formula III 800	19	MX Z 500 (Europe)	16
Formula Deluxe 380	4	MX Z 600 (Can/U.S.)	15
Formula Deluxe 500	4	MX Z 600 (Europe)	16
Formula Deluxe 500 LC	10	MX Z 700 (Can/U.S.)	15
Formula Deluxe 600	15	MX Z 700 (Europe)	16
Formula Deluxe 700 (Can/U.S.)	15	Skandic 380	3
Formula Deluxe 700 (Europe)	17	Skandic 500	3
Formula S (Can/U.S.)	4	Summit 600	8
Formula S (Europe)	5	Summit 700	8
Formula Z 600	15	Summit 700 HM	8
Formula Z 700	15	Touring 500 LC (Can/U.S.)	13
Grand Touring 600 (Can/U.S.)	20	Touring 500 LC (Europe)	14
Grand Touring 600 (Europe)	21	Touring E	2
Grand Touring 700	18	Touring LE	2
Grand Touring SE	9	Touring SLE	6
Mach 1	12		

TOURING LE, TOURING E								
REAR SPRING 					CENTER SPRING 			
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 200 lb	503 189 338	503 189 339	1	GN/GN	415 069 900	N.A.	SI/YL/YL	BLACK
200 lb to 280 lb	503 189 338	503 189 339	2	GN/GN	415 069 900	N.A.	SI/YL/YL	BLACK
280 lb to 320 lb	503 189 338	503 189 339	3	GN/GN	415 069 900	N.A.	SI/YL/YL	BLACK
320 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	415 069 900	N.A.	SI/YL/YL	BLACK
OPTION 1								
Up to 250 lb	503 189 358	503 189 359	1	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
250 lb to 330 lb	503 189 358	503 189 359	2	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
330 lb to 370 lb	503 189 358	503 189 359	3	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
370 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

SKANDIC 380, SKANDIC 500								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 200 lb	503 189 338	503 189 339	1	GN/GN	503 189 000	N.A.	YL/GD/YL	BLACK
200 lb to 280 lb	503 189 338	503 189 339	2	GN/GN	503 189 000	N.A.	YL/GD/YL	BLACK
280 lb to 320 lb	503 189 338	503 189 339	3	GN/GN	503 189 000	N.A.	YL/GD/YL	BLACK
320 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	503 189 000	N.A.	YL/GD/YL	BLACK
OPTION 1								
Up to 250 lb	503 189 358	503 189 359	1	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
250 lb to 330 lb	503 189 358	503 189 359	2	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
330 lb to 370 lb	503 189 358	503 189 359	3	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
370 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

FORMULA S (CAN/U.S.), FORMULA DLX 500/380								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 125 lb	503 189 346	503 189 347	1	YL/YL/YL	415 069 900	N.A.	SI/YL/YL	BLACK
125 lb to 150 lb	503 189 346	503 189 347	2	YL/YL/YL	415 069 900	N.A.	SI/YL/YL	BLACK
150 lb to 175 lb	503 189 346	503 189 347	3	YL/YL/YL	415 069 900	N.A.	SI/YL/YL	BLACK
175 lb to 200 lb	503 189 346	503 189 347	4	YL/YL/YL	415 069 900	N.A.	SI/YL/YL	BLACK
OPTION 1								
Up to 175 lb	503 189 354	503 189 355	1	WH/WH/WH	414 771 300	N.A.	BK/BK	SAFARI RED
175 lb to 200 lb	503 189 354	503 189 355	2	WH/WH/WH	414 771 300	N.A.	BK/BK	SAFARI RED
200 lb to 225 lb	503 189 354	503 189 355	3	WH/WH/WH	414 771 300	N.A.	BK/BK	SAFARI RED
225 lb to 250 lb	503 189 354	503 189 355	4	WH/WH/WH	414 771 300	N.A.	BK/BK	SAFARI RED
OPTION 2								
Up to 225 lb	503 189 342	503 189 343	1	RD/RD/RD	414 771 300	N.A.	BK/BK	SAFARI RED
225 lb to 250 lb	503 189 342	503 189 343	2	RD/RD/RD	414 771 300	N.A.	BK/BK	SAFARI RED
250 lb to 275 lb	503 189 342	503 189 343	3	RD/RD/RD	414 771 300	N.A.	BK/BK	SAFARI RED
275 lb to 300 lb	503 189 342	503 189 343	4	RD/RD/RD	414 771 300	N.A.	BK/BK	SAFARI RED
OPTION 3								
Up to 275 lb	503 189 338	503 189 339	1	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
275 lb to 300 lb	503 189 338	503 189 339	2	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
300 lb to 325 lb	503 189 338	503 189 339	3	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
325 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
OPTION 4								
Up to 325 lb	503 189 358	503 189 359	1	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
325 lb to 350 lb	503 189 358	503 189 359	2	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
350 lb to 375 lb	503 189 358	503 189 359	3	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
375 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

FORMULA S (EUROPE)								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 225 lb	503 189 342	503 189 343	1	RD/RD/RD	415 069 900	N.A.	SI/YL/YL	BLACK
225 lb to 250 lb	503 189 342	503 189 343	2	RD/RD/RD	415 069 900	N.A.	SI/YL/YL	BLACK
250 lb to 275 lb	503 189 342	503 189 343	3	RD/RD/RD	415 069 900	N.A.	SI/YL/YL	BLACK
275 lb to 300 lb	503 189 342	503 189 343	4	RD/RD/RD	415 069 900	N.A.	SI/YL/YL	BLACK
OPTION 1								
Up to 275 lb	503 189 338	503 189 339	1	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
275 lb to 300 lb	503 189 338	503 189 339	2	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
300 lb to 325 lb	503 189 338	503 189 339	3	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
325 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	414 771 300	N.A.	BK/BK	SAFARI RED
OPTION 2								
Up to 325 lb	503 189 358	503 189 359	1	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
325 lb to 350 lb	503 189 358	503 189 359	2	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
350 lb to 375 lb	503 189 358	503 189 359	3	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
375 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	414 771 300	N.A.	BK/BK	SAFARI RED
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

TOURING SLE							
REAR SPRING				CENTER SPRING			
							
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR

STANDARD

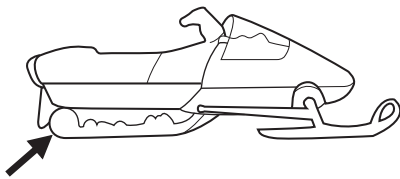
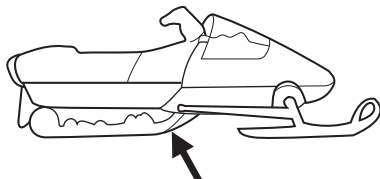
Up to 200 lb	503 189 338	503 189 339	1	GN/GN	415 103 600	1	GN/GN/YL	BLACK
200 lb to 250 lb	503 189 338	503 189 339	2	GN/GN	415 103 600	1	GN/GN/YL	BLACK
250 lb to 300 lb	503 189 338	503 189 339	3	GN/GN	415 103 600	2	GN/GN/YL	BLACK
300 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	3	GN/GN/YL	BLACK
350 lb to 375 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	4	GN/GN/YL	BLACK
375 lb to 400 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	5	GN/GN/YL	BLACK

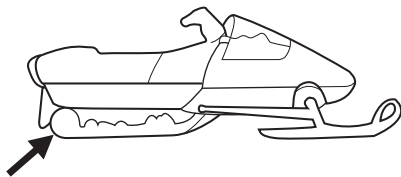
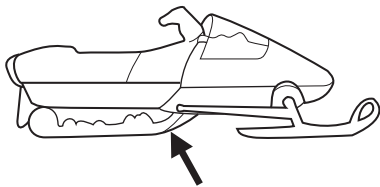
OPTION 1

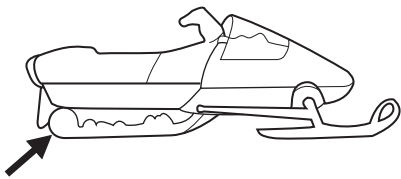
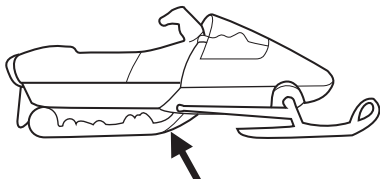
Up to 250 lb	503 189 358	503 189 359	1	BL/BL	415 071 000	1	SI/RD/YL	BLACK
250 lb to 300 lb	503 189 358	503 189 359	2	BL/BL	415 071 000	1	SI/RD/YL	BLACK
300 lb to 350 lb	503 189 358	503 189 359	3	BL/BL	415 071 000	2	SI/RD/YL	BLACK
350 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	415 071 000	3	SI/RD/YL	BLACK
400 lb to 425 lb	503 189 358	503 189 359	4	BL/BL	415 071 000	4	SI/RD/YL	BLACK
425 lb to 450 lb	503 189 358	503 189 359	4	BL/BL	415 071 000	5	SI/RD/YL	BLACK

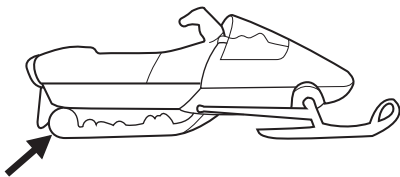
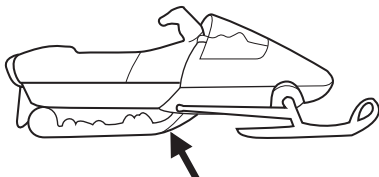
SPRING COLOR CODES

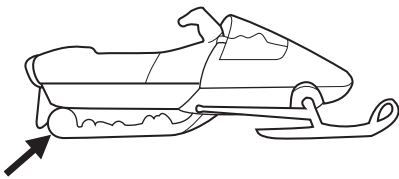
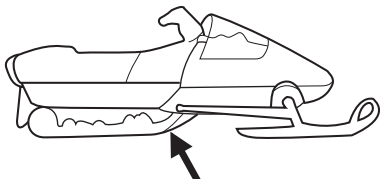
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER
WH = WHITE YL = YELLOW

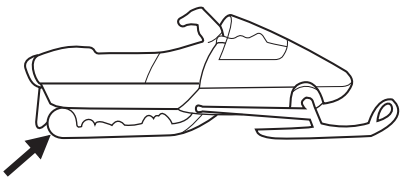
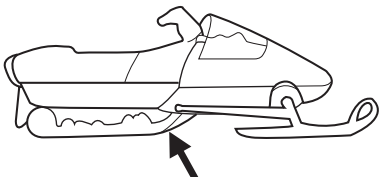
MX Z 440 F								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 150 lb	503 189 354	503 189 355	1	WH/WH/WH	415 070 100	1	GD/YL/YL	BLACK
150 lb to 180 lb	503 189 354	503 189 355	2	WH/WH/WH	415 070 100	2	GD/YL/YL	BLACK
180 lb to 210 lb	503 189 354	503 189 355	3	WH/WH/WH	415 070 100	3	GD/YL/YL	BLACK
210 lb to 240 lb	503 189 354	503 189 355	4	WH/WH/WH	415 070 100	4	GD/YL/YL	BLACK
240 lb to 265 lb	503 189 354	503 189 355	4	WH/WH/WH	415 070 100	5	GD/YL/YL	BLACK
OPTION 1								
Up to 200 lb	503 189 342	503 189 343	1	RD/RD/RD	415 070 500	1	BL/YL/YL	BLACK
200 lb to 230 lb	503 189 342	503 189 343	2	RD/RD/RD	415 070 500	2	BL/YL/YL	BLACK
230 lb to 265 lb	503 189 342	503 189 343	3	RD/RD/RD	415 070 500	3	BL/YL/YL	BLACK
265 lb to 300 lb	503 189 342	503 189 343	4	RD/RD/RD	415 070 500	4	BL/YL/YL	BLACK
300 lb to 325 lb	503 189 342	503 189 343	4	RD/RD/RD	415 070 500	5	BL/YL/YL	BLACK
OPTION 2								
Up to 250 lb	503 189 338	503 189 339	1	GN/GN	415 070 500	1	BL/YL/YL	BLACK
250 lb to 280 lb	503 189 338	503 189 339	2	GN/GN	415 070 500	2	BL/YL/YL	BLACK
280 lb to 325 lb	503 189 338	503 189 339	3	GN/GN	415 070 500	3	BL/YL/YL	BLACK
325 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	415 070 500	4	BL/YL/YL	BLACK
350 lb to 375 lb	503 189 338	503 189 339	4	GN/GN	415 070 500	5	BL/YL/YL	BLACK
OPTION 3								
Up to 300 lb	503 189 358	503 189 359	1	BL/BL	415 070 500	1	BL/YL/YL	BLACK
300 lb to 330 lb	503 189 358	503 189 359	2	BL/BL	415 070 500	2	BL/YL/YL	BLACK
330 lb to 375 lb	503 189 358	503 189 359	3	BL/BL	415 070 500	3	BL/YL/YL	BLACK
375 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	415 070 500	4	BL/YL/YL	BLACK
400 lb to 425 lb	503 189 358	503 189 359	4	BL/BL	415 070 500	5	BL/YL/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

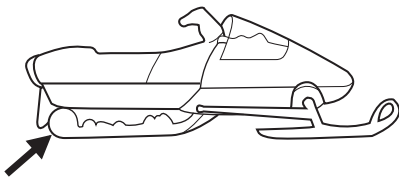
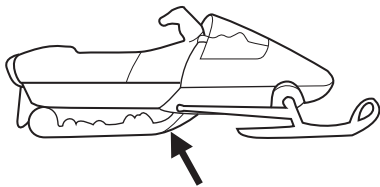
SUMMIT 600/700/700 H.M.								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 150 lb	503 189 354	503 189 355	1	WH/WH/WH	415 070 100	1	GD/YL/YL	BLACK
150 lb to 180 lb	503 189 354	503 189 355	2	WH/WH/WH	415 070 100	2	GD/YL/YL	BLACK
180 lb to 210 lb	503 189 354	503 189 355	3	WH/WH/WH	415 070 100	3	GD/YL/YL	BLACK
210 lb to 240 lb	503 189 354	503 189 355	4	WH/WH/WH	415 070 100	4	GD/YL/YL	BLACK
240 lb to 265 lb	503 189 354	503 189 355	4	WH/WH/WH	415 070 100	5	GD/YL/YL	BLACK
OPTION 1								
Up to 200 lb	503 189 342	503 189 343	1	RD/RD/RD	415 070 500	1	BL/YL/YL	BLACK
200 lb to 230 lb	503 189 342	503 189 343	2	RD/RD/RD	415 070 500	2	BL/YL/YL	BLACK
230 lb to 265 lb	503 189 342	503 189 343	3	RD/RD/RD	415 070 500	3	BL/YL/YL	BLACK
265 lb to 300 lb	503 189 342	503 189 343	4	RD/RD/RD	415 070 500	4	BL/YL/YL	BLACK
300 lb to 325 lb	503 189 342	503 189 343	4	RD/RD/RD	415 070 500	5	BL/YL/YL	BLACK
OPTION 2								
Up to 250 lb	503 189 338	503 189 339	1	GN/GN	415 070 500	1	BL/YL/YL	BLACK
250 lb to 280 lb	503 189 338	503 189 339	2	GN/GN	415 070 500	2	BL/YL/YL	BLACK
280 lb to 325 lb	503 189 338	503 189 339	3	GN/GN	415 070 500	3	BL/YL/YL	BLACK
325 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	415 070 500	4	BL/YL/YL	BLACK
350 lb to 375 lb	503 189 338	503 189 339	4	GN/GN	415 070 500	5	BL/YL/YL	BLACK
OPTION 3								
Up to 300 lb	503 189 358	503 189 359	1	BL/BL	415 070 500	1	BL/YL/YL	BLACK
300 lb to 330 lb	503 189 358	503 189 359	2	BL/BL	415 070 500	2	BL/YL/YL	BLACK
330 lb to 375 lb	503 189 358	503 189 359	3	BL/BL	415 070 500	3	BL/YL/YL	BLACK
375 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	415 070 500	4	BL/YL/YL	BLACK
400 lb to 425 lb	503 189 358	503 189 359	4	BL/BL	415 070 500	5	BL/YL/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

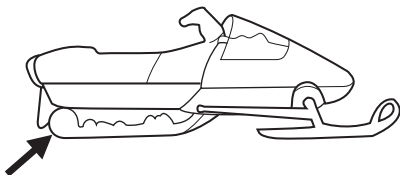
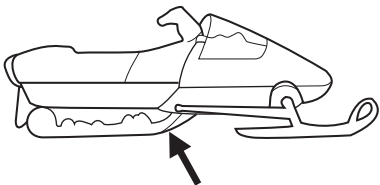
GRAND TOURING SE									
REAR SPRING 					CENTER SPRING 				
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR	AIR PRESSURE
STANDARD									
Up to 175 lb	503 189 342	503 189 343	1	RD/RD/RD	415 057 600	3	BL/GD	BLACK	1/8
175 lb to 225 lb	503 189 342	503 189 343	1	RD/RD/RD	415 057 600	3	BL/GD	BLACK	1/4
225 lb to 300 lb	503 189 342	503 189 343	1	RD/RD/RD	415 057 600	3	BL/GD	BLACK	1/2
300 lb to 350 lb	503 189 342	503 189 343	1	RD/RD/RD	415 057 600	3	BL/GD	BLACK	3/4
350 lb to 400 lb	503 189 342	503 189 343	2	RD/RD/RD	415 057 600	3	BL/GD	BLACK	3/4
400 lb to 450 lb	503 189 342	503 189 343	3	RD/RD/RD	415 057 600	3	BL/GD	BLACK	3/4
450 lb to 500 lb	503 189 342	503 189 343	4	RD/RD/RD	415 057 600	3	BL/GD	BLACK	3/4
500 lb to 550 lb	503 189 342	503 189 343	4	RD/RD/RD	415 057 600	3	BL/GD	BLACK	4/4
OPTION 1									
Up to 225 lb	503 189 338	503 189 339	1	GN/GN	415 070 700	3	YL/YL/YL	BLACK	1/8
225 lb to 275 lb	503 189 338	503 189 339	1	GN/GN	415 070 700	3	YL/YL/YL	BLACK	1/4
275 lb to 325 lb	503 189 338	503 189 339	1	GN/GN	415 070 700	3	YL/YL/YL	BLACK	1/2
325 lb to 385 lb	503 189 338	503 189 339	1	GN/GN	415 070 700	3	YL/YL/YL	BLACK	3/4
385 lb to 440 lb	503 189 338	503 189 339	2	GN/GN	415 070 700	3	YL/YL/YL	BLACK	3/4
440 lb to 500 lb	503 189 338	503 189 339	3	GN/GN	415 070 700	3	YL/YL/YL	BLACK	3/4
500 lb to 550 lb	503 189 338	503 189 339	4	GN/GN	415 070 700	3	YL/YL/YL	BLACK	3/4
550 lb to 600 lb	503 189 338	503 189 339	4	GN/GN	415 070 700	3	YL/YL/YL	BLACK	4/4
OPTION 2									
Up to 275 lb	503 189 358	503 189 359	1	BL/BL	415 070 700	3	YL/YL/YL	BLACK	1/8
275 lb to 325 lb	503 189 358	503 189 359	1	BL/BL	415 070 700	3	YL/YL/YL	BLACK	1/4
325 lb to 375 lb	503 189 358	503 189 359	1	BL/BL	415 070 700	3	YL/YL/YL	BLACK	1/2
375 lb to 435 lb	503 189 358	503 189 359	1	BL/BL	415 070 700	3	YL/YL/YL	BLACK	3/4
435 lb to 490 lb	503 189 358	503 189 359	2	BL/BL	415 070 700	3	YL/YL/YL	BLACK	3/4
490 lb to 550 lb	503 189 358	503 189 359	3	BL/BL	415 070 700	3	YL/YL/YL	BLACK	3/4
550 lb to 600 lb	503 189 358	503 189 359	4	BL/BL	415 070 700	3	YL/YL/YL	BLACK	3/4
600 lb to 650 lb	503 189 358	503 189 359	4	BL/BL	415 070 700	3	YL/YL/YL	BLACK	4/4
SPRING COLOR CODES									
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW									

FORMULA 500 LC (CAN/U.S.), FORMULA DELUXE 500 LC								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 150 lb	503 189 342	503 189 343	1	RD/RD/RD	415 070 400	1	GN/YL/YL	BLACK
150 lb to 180 lb	503 189 342	503 189 343	2	RD/RD/RD	415 070 400	2	GN/YL/YL	BLACK
180 lb to 210 lb	503 189 342	503 189 343	3	RD/RD/RD	415 070 400	3	GN/YL/YL	BLACK
210 lb to 250 lb	503 189 342	503 189 343	4	RD/RD/RD	415 070 400	4	GN/YL/YL	BLACK
250 lb to 275 lb	503 189 342	503 189 343	4	RD/RD/RD	415 070 400	5	GN/YL/YL	BLACK
OPTION 1								
Up to 200 lb	503 189 338	503 189 339	1	GN/GN	415 103 600	1	GN/GN/YL	SAFARI RED
200 lb to 230 lb	503 189 338	503 189 339	2	GN/GN	415 103 600	2	GN/GN/YL	SAFARI RED
230 lb to 260 lb	503 189 338	503 189 339	3	GN/GN	415 103 600	3	GN/GN/YL	SAFARI RED
260 lb to 300 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	4	GN/GN/YL	SAFARI RED
300 lb to 325 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	5	GN/GN/YL	SAFARI RED
OPTION 2								
Up to 250 lb	503 189 358	503 189 359	1	BL/BL	415 103 600	1	GN/GN/YL	SAFARI RED
250 lb to 280 lb	503 189 358	503 189 359	2	BL/BL	415 103 600	2	GN/GN/YL	SAFARI RED
280 lb to 310 lb	503 189 358	503 189 359	3	BL/BL	415 103 600	3	GN/GN/YL	SAFARI RED
310 lb to 350 lb	503 189 358	503 189 359	4	BL/BL	415 103 600	4	GN/GN/YL	SAFARI RED
350 lb to 375 lb	503 189 358	503 189 359	4	BL/BL	415 103 600	5	GN/GN/YL	SAFARI RED
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

FORMULA 500 LC (EUROPE)								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 200 lb	503 189 338	503 189 339	1	GN/GN	415 070 400	1	GN/YL/YL	BLACK
200 lb to 230 lb	503 189 338	503 189 339	2	GN/GN	415 070 400	1	GN/YL/YL	BLACK
230 lb to 260 lb	503 189 338	503 189 339	3	GN/GN	415 070 400	1	GN/YL/YL	BLACK
260 lb to 300 lb	503 189 338	503 189 339	4	GN/GN	415 070 400	1	GN/YL/YL	BLACK
300 lb to 325 lb	503 189 338	503 189 339	4	GN/GN	415 070 400	1	GN/YL/YL	BLACK
OPTION 1								
Up to 250 lb	503 189 358	503 189 359	1	BL/BL	415 103 600	1	GN/GN/YL	SAFARI RED
250 lb to 280 lb	503 189 358	503 189 359	2	BL/BL	415 103 600	2	GN/GN/YL	SAFARI RED
280 lb to 310 lb	503 189 358	503 189 359	3	BL/BL	415 103 600	3	GN/GN/YL	SAFARI RED
310 lb to 350 lb	503 189 358	503 189 359	4	BL/BL	415 103 600	4	GN/GN/YL	SAFARI RED
350 lb to 375 lb	503 189 358	503 189 359	4	BL/BL	415 103 600	5	GN/GN/YL	SAFARI RED
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

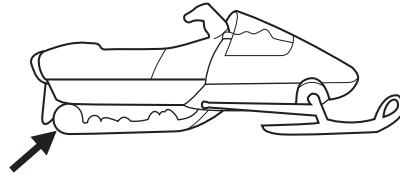
MACH Z, MACH 1								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to lb	503 188 100	503 188 200	1	BL/YL	415 090 500	1	YL/BL/YL	BLACK
150 lb to 180 lb	503 188 100	503 188 200	2	BL/YL	415 090 500	2	YL/BL/YL	BLACK
180 lb to 210 lb	503 188 100	503 188 200	3	BL/YL	415 090 500	3	YL/BL/YL	BLACK
210 lb to 250 lb	503 188 100	503 188 200	4	BL/YL	415 090 500	5	YL/BL/YL	BLACK
250 lb to 265 lb	503 188 100	503 188 200	4	BL/YL	415 090 500	6	YL/BL/YL	BLACK
265 lb to 280 lb	503 188 100	503 188 200	4	BL/YL	415 090 500	7	YL/BL/YL	BLACK
					P/N (LONG)	CAM POSITION	COLOR CODE	COLOR
					415 090 600	1	RD/BL/YL	BLACK
					415 090 600	2	RD/BL/YL	BLACK
					415 090 600	3	RD/BL/YL	BLACK
					415 090 600	5	RD/BL/YL	BLACK
					415 090 600	6	RD/BL/YL	BLACK
					415 090 600	7	RD/BL/YL	BLACK
OPTION 1								
Up to 200 lb	503 189 338	503 189 339	1	GN/GN	415 103 600	1	GN/GN/YL	BLACK
200 lb to 230 lb	503 189 338	503 189 339	2	GN/GN	415 103 600	2	GN/GN/YL	BLACK
230 lb to 260 lb	503 189 338	503 189 339	3	GN/GN	415 103 600	3	GN/GN/YL	BLACK
260 lb to 300 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	5	GN/GN/YL	BLACK
300 lb to 315 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	6	GN/GN/YL	BLACK
315 lb to 330 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	7	GN/GN/YL	BLACK
OPTION 2								
Up to 250 lb	503 189 358	503 189 359	1	BL/BL	415 103 600	1	GN/GN/YL	BLACK
250 lb to 280 lb	503 189 358	503 189 359	2	BL/BL	415 103 600	2	GN/GN/YL	BLACK
280 lb to 310 lb	503 189 358	503 189 359	3	BL/BL	415 103 600	3	GN/GN/YL	BLACK
310 lb to 350 lb	503 189 358	503 189 359	4	BL/BL	415 103 600	5	GN/GN/YL	BLACK
350 lb to 365 lb	503 189 358	503 189 359	4	BL/BL	415 103 600	6	GN/GN/YL	BLACK
365 lb to 380 lb	503 189 358	503 189 359	4	BL/BL	415 103 600	7	GN/GN/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

TOURING 500 LC (CAN/U.S.)								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 190 lb	503 189 338	503 189 339	1	GN/GN	415 070 600	1	RD/YL/YL	BLACK
190 lb to 250 lb	503 189 338	503 189 339	2	GN/GN	415 070 600	2	RD/YL/YL	BLACK
250 lb to 300 lb	503 189 338	503 189 339	3	GN/GN	415 070 600	3	RD/YL/YL	BLACK
300 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	415 070 600	4	RD/YL/YL	BLACK
350 lb to 375 lb	503 189 338	503 189 339	4	GN/GN	415 070 600	5	RD/YL/YL	BLACK
OPTION 1								
Up to 240 lb	503 189 358	503 189 359	1	BL/BL	415 057 600	1	BL/GD	BLACK
240 lb to 300 lb	503 189 358	503 189 359	2	BL/BL	415 057 600	2	BL/GD	BLACK
300 lb to 350 lb	503 189 358	503 189 359	3	BL/BL	415 057 600	3	BL/GD	BLACK
350 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	415 057 600	4	BL/GD	BLACK
400 lb to 425 lb	503 189 358	503 189 359	4	BL/BL	415 057 600	5	BL/GD	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

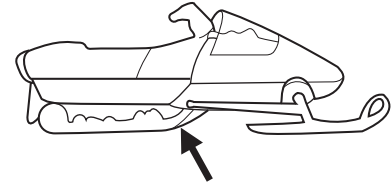
TOURING 500 LC (EUROPE)								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 240 lb	503 189 327	503 189 329	1	SILVER	415 057 600	1	BL/GD	BLACK
240 to à 300 lb	503 189 327	503 189 329	2	SILVER	415 057 600	2	BL/GD	BLACK
300 to à 350 lb	503 189 327	503 189 329	3	SILVER	415 057 600	3	BL/GD	BLACK
350 to à 400 lb	503 189 327	503 189 329	4	SILVER	415 057 600	4	BL/GD	BLACK
400 to à 425 lb	503 189 327	503 189 329	4	SILVER	415 057 600	5	BL/GD	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

**MX Z 500/600/700 (CAN/U.S.), FORMULA DLX 600,
FORMULA DLX 700 (CAN/U.S.), FORMULA Z 600/700**

REAR SPRING



CENTER SPRING



RIGHT
P/N

LEFT
P/N

CAM
POSITION

COLOR
CODE

P/N

CAM
POSITION

COLOR
CODE

COLOR

STANDARD

Up to 170 lb	503 189 443	503 189 445	1	GN/GN/GN	503 189 325	1	YL/SI/YL	BLACK
170 lb to 200 lb	503 189 443	503 189 445	2	GN/GN/GN	503 189 325	2	YL/SI/YL	BLACK
200 lb to 230 lb	503 189 443	503 189 445	3	GN/GN/GN	503 189 325	3	YL/SI/YL	BLACK
230 lb to 260 lb	503 189 443	503 189 445	4	GN/GN/GN	503 189 325	5	YL/SI/YL	BLACK
260 lb to 270 lb	503 189 443	503 189 445	4	GN/GN/GN	503 189 325	6	YL/SI/YL	BLACK
270 lb to 280 lb	503 189 443	503 189 445	4	GN/GN/GN	503 189 325	7	YL/SI/YL	BLACK

OPTION 1

Up to 220 lb	503 189 338	503 189 339	1	GN/GN	503 189 325	1	YL/SI/YL	BLACK
220 lb to 250 lb	503 189 338	503 189 339	2	GN/GN	503 189 325	2	YL/SI/YL	BLACK
250 lb to 280 lb	503 189 338	503 189 339	3	GN/GN	503 189 325	3	YL/SI/YL	BLACK
280 lb to 310 lb	503 189 338	503 189 339	4	GN/GN	503 189 325	5	YL/SI/YL	BLACK
310 lb to 320 lb	503 189 338	503 189 339	4	GN/GN	503 189 325	6	YL/SI/YL	BLACK
320 lb to 330 lb	503 189 338	503 189 339	4	GN/GN	503 189 325	7	YL/SI/YL	BLACK

OPTION 2

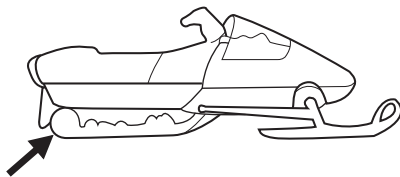
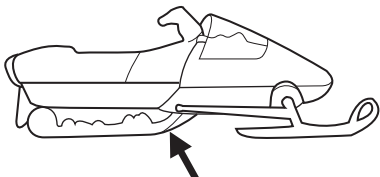
Up to 270 lb	503 189 358	503 189 359	1	BL/BL	503 189 325	1	YL/SI/YL	BLACK
270 lb to 300 lb	503 189 358	503 189 359	2	BL/BL	503 189 325	2	YL/SI/YL	BLACK
300 lb to 330 lb	503 189 358	503 189 359	3	BL/BL	503 189 325	3	YL/SI/YL	BLACK
330 lb to 360 lb	503 189 358	503 189 359	4	BL/BL	503 189 325	5	YL/SI/YL	BLACK
360 lb to 370 lb	503 189 358	503 189 359	4	BL/BL	503 189 325	6	YL/SI/YL	BLACK
370 lb to 380 lb	503 189 358	503 189 359	4	BL/BL	503 189 325	7	YL/SI/YL	BLACK

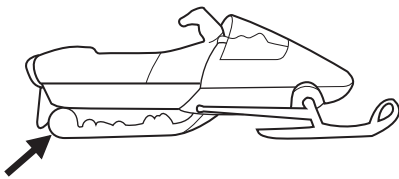
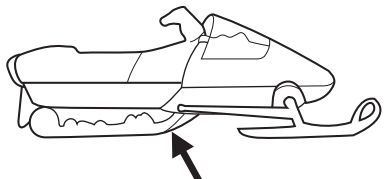
OPTION 3

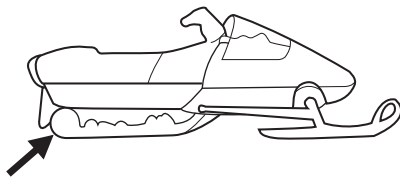
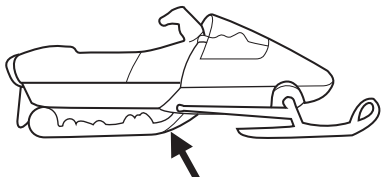
Up to 320 lb	503 189 327	503 189 329	1	SILVER	503 189 325	1	YL/SI/YL	BLACK
320 lb to 350 lb	503 189 327	503 189 329	2	SILVER	503 189 325	2	YL/SI/YL	BLACK
350 lb to 380 lb	503 189 327	503 189 329	3	SILVER	503 189 325	3	YL/SI/YL	BLACK
380 lb to 410 lb	503 189 327	503 189 329	4	SILVER	503 189 325	5	YL/SI/YL	BLACK
410 lb to 420 lb	503 189 327	503 189 329	4	SILVER	503 189 325	6	YL/SI/YL	BLACK
420 lb to 430 lb	503 189 327	503 189 329	4	SILVER	503 189 325	7	YL/SI/YL	BLACK

SPRING COLOR CODES

BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER
WH = WHITE YL = YELLOW

MX Z 500/600/700 (EUROPE)								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 220 lb	503 189 338	503 189 339	1	GN/GN	415 090 500 503 189 090	1	YL/BL/YL YL/WH/YL	BLACK
220 lb to 250 lb	503 189 338	503 189 339	2	GN/GN	415 090 500 503 189 090	2	YL/BL/YL YL/WH/YL	BLACK
250 lb to 280 lb	503 189 338	503 189 339	3	GN/GN	415 090 500 503 189 090	3	YL/BL/YL YL/WH/YL	BLACK
280 lb to 310 lb	503 189 338	503 189 339	4	GN/GN	415 090 500 503 189 090	5	YL/BL/YL YL/WH/YL	BLACK
310 lb to 320 lb	503 189 338	503 189 339	4	GN/GN	415 090 500 503 189 090	6	YL/BL/YL YL/WH/YL	BLACK
320 lb to 330 lb	503 189 338	503 189 339	4	GN/GN	415 090 500 503 189 090	7	YL/BL/YL YL/WH/YL	BLACK
OPTION 1								
Up to 270 lb	503 189 358	503 189 359	1	BL/BL	415 090 500 503 189 090	1	YL/BL/YL YL/WH/YL	BLACK
270 lb to 300 lb	503 189 358	503 189 359	2	BL/BL	415 090 500 503 189 090	2	YL/BL/YL YL/WH/YL	BLACK
300 lb to 330 lb	503 189 358	503 189 359	3	BL/BL	415 090 500 503 189 090	3	YL/BL/YL YL/WH/YL	BLACK
330 lb to 360 lb	503 189 358	503 189 359	4	BL/BL	415 090 500 503 189 090	5	YL/BL/YL YL/WH/YL	BLACK
360 lb to 370 lb	503 189 358	503 189 359	4	BL/BL	415 090 500 503 189 090	6	YL/BL/YL YL/WH/YL	BLACK
370 lb to 380 lb	503 189 358	503 189 359	4	BL/BL	415 090 500 503 189 090	7	YL/BL/YL YL/WH/YL	BLACK
OPTION 2								
Up to 320 lb	503 189 327	503 189 329	1	SILVER	415 090 500 503 189 090	1	YL/BL/YL YL/WH/YL	BLACK
320 lb to 350 lb	503 189 327	503 189 329	2	SILVER	415 090 500 503 189 090	2	YL/BL/YL YL/WH/YL	BLACK
350 lb to 380 lb	503 189 327	503 189 329	3	SILVER	415 090 500 503 189 090	3	YL/BL/YL YL/WH/YL	BLACK
380 lb to 410 lb	503 189 327	503 189 329	4	SILVER	415 090 500 503 189 090	5	YL/BL/YL YL/WH/YL	BLACK
410 lb to 420 lb	503 189 327	503 189 329	4	SILVER	415 090 500 503 189 090	6	YL/BL/YL YL/WH/YL	BLACK
420 lb to 430 lb	503 189 327	503 189 329	4	SILVER	415 090 500 503 189 090	7	YL/BL/YL YL/WH/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

FORMULA DLX 700 (EUROPE)									
REAR SPRING					CENTER SPRING				
									
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR	
STANDARD									
Up to 320 lb	503 189 327	503 189 329	1	SILVER	503 189 325	1	YL/SI/YL	BLACK	
320 lb to 350 lb	503 189 327	503 189 329	2	SILVER	503 189 325	2	YL/SI/YL	BLACK	
350 lb to 380 lb	503 189 327	503 189 329	3	SILVER	503 189 325	3	YL/SI/YL	BLACK	
380 lb to 410 lb	503 189 327	503 189 329	4	SILVER	503 189 325	5	YL/SI/YL	BLACK	
410 lb to 420 lb	503 189 327	503 189 329	4	SILVER	503 189 325	6	YL/SI/YL	BLACK	
420 lb to 430 lb	503 189 327	503 189 329	4	SILVER	503 189 325	7	YL/SI/YL	BLACK	
SPRING COLOR CODES									
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW									

GRAND TOURING 700							
REAR SPRING				CENTER SPRING			
							
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR

STANDARD

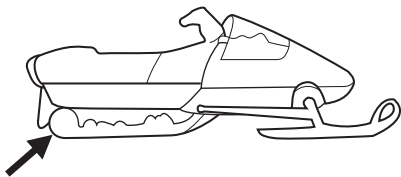
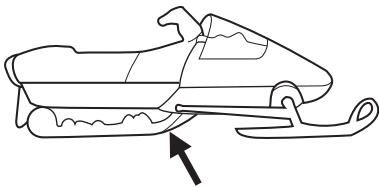
Up to 200 lb	503 189 358	503 189 359	1	BL/BL	415 057 600	1	BL/GD	BLACK
200 lb to 250 lb	503 189 358	503 189 359	2	BL/BL	415 057 600	2	BL/GD	BLACK
250 lb to 300 lb	503 189 358	503 189 359	3	BL/BL	415 057 600	3	BL/GD	BLACK
300 lb to 350 lb	503 189 358	503 189 359	4	BL/BL	415 057 600	4	BL/GD	BLACK
350 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	415 057 600	5	BL/GD	BLACK

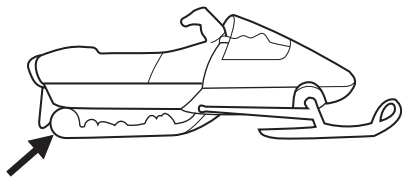
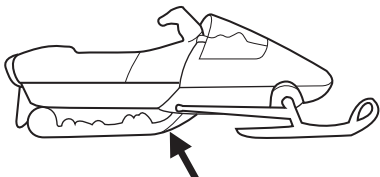
OPTION 1

Up to 250 lb	503 189 327	503 189 329	1	SILVER	415 070 700	1	YL/YL/YL	BLACK
250 lb to 300 lb	503 189 327	503 189 329	2	SILVER	415 070 700	2	YL/YL/YL	BLACK
300 lb to 350 lb	503 189 327	503 189 329	3	SILVER	415 070 700	3	YL/YL/YL	BLACK
350 lb to 400 lb	503 189 327	503 189 329	4	SILVER	415 070 700	4	YL/YL/YL	BLACK
400 lb to 450 lb	503 189 327	503 189 329	4	SILVER	415 070 700	5	YL/YL/YL	BLACK

SPRING COLOR CODES

BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER
WH = WHITE YL = YELLOW

FORMULA III 700/800								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 200 lb	503 189 338	503 189 339	1	GN/GN	415 103 600	1	GN/GN/YL	BLACK
200 lb to 240 lb	503 189 338	503 189 339	2	GN/GN	415 103 600	2	GN/GN/YL	BLACK
240 lb to 270 lb	503 189 338	503 189 339	3	GN/GN	415 103 600	3	GN/GN/YL	BLACK
270 lb to 300 lb	503 189 338	503 189 339	4	GN/GN	415 103 600	5	GN/GN/YL	BLACK
OPTION 1								
Up to 250 lb	503 189 358	503 189 359	1	BL/BL	415 057 500	1	RD/GD	BLACK
250 lb to 290 lb	503 189 358	503 189 359	2	BL/BL	415 057 500	2	RD/GD	BLACK
290 lb to 320 lb	503 189 358	503 189 359	3	BL/BL	415 057 500	3	RD/GD	BLACK
320 lb to 350 lb	503 189 358	503 189 359	4	BL/BL	415 057 500	5	RD/GD	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

GRAND TOURING 600 (CAN/U.S.)							
REAR SPRING				CENTER SPRING			
							
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR

STANDARD

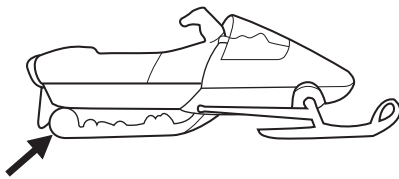
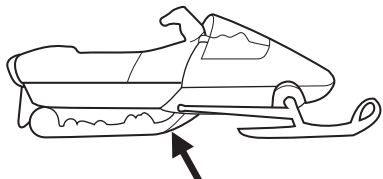
Up to 190 lb	503 189 338	503 189 339	1	GN/GN	415 057 500	1	RD/GD	BLACK
190 lb to 250 lb	503 189 338	503 189 339	2	GN/GN	415 057 500	2	RD/GD	BLACK
250 lb to 300 lb	503 189 338	503 189 339	3	GN/GN	415 057 500	3	RD/GD	BLACK
300 lb to 350 lb	503 189 338	503 189 339	4	GN/GN	415 057 500	4	RD/GD	BLACK
350 lb to 375 lb	503 189 338	503 189 339	4	GN/GN	415 057 500	5	RD/GD	BLACK

OPTION 1

Up to 240 lb	503 189 358	503 189 359	1	BL/BL	415 057 600	1	BL/GD	BLACK
240 lb to 300 lb	503 189 358	503 189 359	2	BL/BL	415 057 600	2	BL/GD	BLACK
300 lb to 350 lb	503 189 358	503 189 359	3	BL/BL	415 057 600	3	BL/GD	BLACK
350 lb to 400 lb	503 189 358	503 189 359	4	BL/BL	415 057 600	4	BL/GD	BLACK
400 lb to 425 lb	503 189 358	503 189 359	4	BL/BL	415 057 600	5	BL/GD	BLACK

SPRING COLOR CODES

BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER
WH = WHITE YL = YELLOW

GRAND TOURING 600 (EUROPE)								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD								
Up to 240 lb	503 189 327	503 189 329	1	SILVER	415 057 600	1	BL/GD	BLACK
240 lb to 300 lb	503 189 327	503 189 329	2	SILVER	415 057 600	2	BL/GD	BLACK
300 lb to 350 lb	503 189 327	503 189 329	3	SILVER	415 057 600	3	BL/GD	BLACK
350 lb to 400 lb	503 189 327	503 189 329	4	SILVER	415 057 600	4	BL/GD	BLACK
400 lb to 425 lb	503 189 327	503 189 329	4	SILVER	415 057 600	5	BL/GD	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

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SNOWMOBILES



SERVICE
Bulletin

No. **2000-5**

Date: October 15, 1999

**SUBJECT: Pre-Season Inspection
(owner's expense)**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	All	All	All

Proper vehicle inspection is necessary after summer months or when a vehicle has not been used for more than one month. Any worn, broken or damaged parts should be replaced.

WARNING

Unless otherwise specified, engine should be turned off for lubrication and inspection procedures.

LUBRICATION/INSPECTION

Lubricate the steering mechanism. **Inspect all components for tightness.**

For proper operation, mechanical brake disc and driven pulley must slide freely on countershaft. Lubricate sparingly.

WARNING

Do not lubricate the throttle and/or brake cables and housings. Avoid getting oil on the brake pads.

Lubricate remaining recommended lubrication points. Refer to *Shop Manual*.

FUEL SYSTEM

Remove rags from air intake and exhaust system. Check fuel filter in reservoir for any damages. Replace if necessary.

Dismount carburetors to make sure they are clean and set as per vehicle specifications. See appropriate *Shop Manual* for procedure.

Remove fuel filter at carburetor inlets if not done yet.

Check fuel valve and primer/choke for proper operation.

Inspect fuel system for any leaks.

Inspect throttle cables for proper synchronization. Refer to ENGINE section then look for **Carburetor and Fuel Pump** in appropriate *Shop Manual*.

ENGINE

Perform a leak test on the engine to check all seals and gaskets. Refer to ENGINE section then look for **Leak Test** in appropriate *Shop Manual*.

Check oil level in oil tank, add oil if necessary.

CAUTION: Use BOMBARDIER-ROTAX injection oil mineral or synthetic as recommended in technical data.

Check condition of spark plugs. Replace if necessary. Refer to ELECTRICAL section then look for **Spark Plugs** in appropriate *Shop Manual*.

Check oil filter and change it, if needed. Adjust oil injection pump for proper engine lubrication.

COOLING SYSTEM

To perform a cooling system leak refer to ENGINE section in appropriate *Shop Manual*.

Check coolant level in coolant reservoir. Add coolant if necessary.

Inspect fan drive belt on air-cooled models, adjust or replace if required.

TRANSMISSION/CHAINCASE

Check drive chain and adjust if necessary. Chaincase oil should have been changed in the vehicle storage procedure. If not, drain then refill with proper amount of chaincase oil. For liquid-cooled snowmobiles and Skandic WT Series, use Bombardier synthetic chaincase oil (P/N 413 803 300). For air-cooled snowmobiles (except Skandic WT Series), use chaincase oil (P/N 413 801 900). Refer to TRANSMISSION section in appropriate *Shop Manual*.

BRAKE SYSTEM

Inspect brake pads for proper thickness. Refer to TRANSMISSION section then look for **Brake** in appropriate *Shop Manual*.

Hydraulic Brake

Check brake fluid in reservoir for proper level. Add fluid (DOT 4) as required.

CAUTION: Use only (DOT 4) brake fluid from a sealed container. Do not store or use a partially filled bottle of brake fluid.

Mechanical Brake

For vehicles equipped with a ratchet wheel, check for proper ratchet operation. Refer to TRANSMISSION section then look for **Brake** in appropriate *Shop Manual*.

DRIVE AND DRIVEN PULLEYS

Clean drive and driven pulleys.

Check for proper pulley alignment and spring preload. Refer to TRANSMISSION section then look for **Drive and Driven Pulleys** in appropriate *Shop Manual*.

Inspect belt for cracks, fraying or abnormal wear. Replace if necessary.

SUSPENSION/STEERING SYSTEM

Examine all shock absorbers for any leaks if so, replace with new ones.

Rear Suspension

Inspect stopper straps, stopper rubbers, idler wheels, slider shoes and track for wear. Replace if necessary.

Front Suspension

Inspect skis and runner shoes, replace if necessary. Refer to STEERING/FRONT SUSPENSION section then look for **Suspension and Ski System** in appropriate *Shop Manual*.

Ski Alignment

Remove weight on skis prior to alignment by lifting front of snowmobile. Refer to STEERING/FRONT SUSPENSION section then look for **Steering System** in appropriate model year in *Shop Manual*.

BATTERY (if equipped)

Wet Batteries Only

Check electrolyte level in battery. Refill if necessary with distilled water.

WARNING

Gases given off by a battery being charged are highly explosive. Always charge in a well ventilated area. Keep battery away from open flames. Avoid skin contact with electrolyte.

All Batteries

Fully charge battery.

WARNING

Never charge or boost battery while installed on vehicle.

Reinstall battery in vehicle. Refer to ELECTRICAL section then look for **Battery** in appropriate *Shop Manual*.

WARNING

Always connect the battery cables exactly in the specified order. Connect RED positive cable first, then BLACK negative ground cable.

Check for proper operation of all gauges, switches and DESS system (if applicable).

FINAL INSPECTION

Check rewind starter rope condition.

Inspect all electrical connectors and apply dielectric grease (P/N 293 550 004), as required.

Inspect spark plug cables condition and proper connection.

Perform engine timing according to *Shop Manual* procedure.

Start engine and check for proper engine and electrical operation.

Models with DPM and Air Pump (enrichment mode)

Unplug hose coming from air pump at DPM manifold.

Run engine at 3000 RPM until all liquid has escaped from that hose (about 2 to 3 minutes).

Reconnect hose.

All Models

Adjust headlight beam aiming.

Please route to :

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No. **2000-1**
REVISION 1 ←

Date: October 22, 1999

SUBJECT: High Altitude Specifications

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	All (except Summit* Series)	All (except Summit* Series)	All (except Summit* Series)

The present *Bulletin* supplies all informations pertaining to parts **required to modify** above mentioned models for **high altitude riding**.

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

CAUTION: The following modifications and adjustments apply only for altitudes above 600 m (2000 ft).

TUNDRA R

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Turquoise 417 115 900	←	Yellow/Green on Violet 417 118 500	←	←	←
Block (Bombardier Lite)	417 114 300	←	←	←	←	←
Weight (Bombardier Lite)	Qty 3 x 3 417114 400	Qty 3 x 2 ←	Qty 3 x 3 ←	Qty 3 x 2 ←	Qty 3 x 1 ←	—
Capsule (Bombardier Lite)	Qty 3 x 1 417114 500	←	←	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 3 ←
Engagement RPM ± 100	3000	←	3500	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring	Yellow 415 094 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3 0.0	←	←	←	←
Cam angle	° (degrees)	37.8° 417 126 350	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	190	185	175	150	140	130	1
Jet needle	6DH4	←	←	←	←	←	1
Needle position	2	←	←	1	←	←	—
Slide cut-away	2.5	←	←	←	←	←	1
Pilot jet	40	←	←	←	←	←	1
Air screw	1.00	←	←	0.75	←	←	—
Valve seat	1.5	←	←	←	←	←	1
Needle jet	O-8 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0

MAIN JET CHART

Altitude Temperature	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	210	200	190	170	160	150	1
- 30°C - 20°F	200	190	180	160	150	140	1
- 20°C - 4°F	190	185	175	150	140	130	1
- 10°C 14°F	185	180	170	145	135	125	1
0°C 32°F	180	175	165	140	130	120	1
10°C 50°F	170	165	155	130	120	110	1
20°C 70°F	165	160	150	125	115	105	1

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

NOTE: Shaded columns give factory settings.

TOURING E/SKANDIC 380

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Green on Violet 417 125 300	←	Red/Blue on Violet 417 118 400	←	←	←
Block (Bombardier Lite)	417 118 100	←	←	←	←	←
Weight (Bombardier Lite)	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule (Bombardier Lite)	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	2500	←	3100	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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 Position 3	←	←	←	←	←
Cam angle (degrees)	47° - 44° 417 124 700	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	140 140	135 135	130 130	125 125	115 115	110 110	2
Jet needle	6DP9	←	←	←	←	←	2
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	←	←	←	2
Valve seat	1.5	←	←	←	←	←	2
Needle jet	P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.7	←	—

Touring E

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Air screw	1.25	←	←	1.50	←	←	2

Skandic 380

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Air screw	1.25	←	←	0.50	←	←	2

MAIN JET CHART

Altitude Temperature	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	150	145	140	135	125	120	2
- 30°C - 20°F	145	140	135	130	120	115	2
- 20°C - 4°F	140	135	130	125	115	110	2
- 10°C 14°F	135	130	125	120	110	105	2
0°C 32°F	130	125	120	115	105	100	2
10°C 50°F	125	120	115	110	100	95	2
20°C 70°F	120	115	110	105	95	90	2

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

NOTE: Shaded columns give factory settings.

FORMULA S/FORMULA DLX 380

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Blue on Violet 417 118 400	←	←	←	←	←
Block (Bombardier Lite)	417 118 100	←	←	←	←	←
Weight (Bombardier Lite)	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule (Bombardier Lite)	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	3500	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY — Formula S

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring	Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	←	←

DRIVEN PULLEY — Formula DLX 380

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

Additional Information: (for Formula DeLuxe 380 only) At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	140	135	130	125	115	110	2
Jet needle	6DP9	←	←	←	←	←	2
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	←	←	←	2
Air screw	1.25			1.50			2
Valve seat	1.5	←	←	←	←	←	2
Needle jet	P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.7	←	—

MAIN JET CHART

Altitude Temperature	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	150	145	140	135	125	120	2
- 30°C - 20°F	145	140	135	130	120	115	2
- 20°C - 4°F	140	135	130	125	115	110	2
- 10°C 14°F	135	130	125	120	110	105	2
0°C 32°F	130	125	120	115	105	100	2
10°C 50°F	125	120	115	110	100	95	2
20°C 70°F	120	115	110	105	95	90	2

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

NOTE: Shaded columns give factory settings.

MX Z 440

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	←	Blue/Green 414 817 700	←	←	←
Ramp	417 005 291X	←	417 005 292X	←	←	←
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3700	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Orange 414 505 800	←	←	←	←	←
Spring tension Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle (degrees)	47° 417 126 337	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
Jet needle	6DH2	←	←	←	←	←	2
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	35	←	←	←	←	←	2
Air screw	1.5	←	←	1.0	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	←	—

MAIN JET CHART

Altitude Temperature	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	215 205	205 195	195 185	185 175	180 170	170 160	PTO MAG
- 30°C - 20°F	210 200	200 190	190 180	180 170	170 160	160 150	PTO MAG
- 20°C - 4°F	205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
- 10°C 14°F	200 190	190 180	180 170	170 160	160 150	150 140	PTO MAG
0°C 32°F	195 185	185 175	175 165	165 155	155 145	145 135	PTO MAG
10°C 50°F	185 175	175 165	165 155	155 145	145 135	140 130	PTO MAG
20°C 70°F	180 170	170 160	160 150	150 140	140 130	135 125	PTO MAG

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

NOTE: Shaded columns give factory settings.

TOURING LE

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	←	Yellow/Green 414 742 100	←	←	←
Ramp	417 005 284	←	←	←	←	←
Calibration Screw Position	2	3	2	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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 Position 3	←	←	←	←	←
Cam angle (degrees)	47° - 44° 417 124 700	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
Jet needle	6DH2	←	←	←	←	←	2
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	35	←	←	←	←	←	2
Air screw	1.5	←	←	1.0	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0 (159)	←	←	←	←	←	2
Float level	mm 23.9	←	←	←	←	←	—
Idle	RPM ± 200 1650	←	←	←	←	←	—
Idle throttle valve position	mm 1.5	←	1.6	1.8	1.9	2.0	—

MAIN JET CHART

Altitude Temperature	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	215 205	205 195	195 185	185 175	180 170	170 160	PTO MAG
- 30°C - 20°F	210 200	200 190	190 180	180 170	170 160	160 150	PTO MAG
- 20°C - 4°F	205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
- 10°C 14°F	200 190	190 180	180 170	170 160	160 150	150 140	PTO MAG
0°C 32°F	195 185	185 175	175 165	165 155	155 145	145 135	PTO MAG
10°C 50°F	185 175	175 165	165 155	155 145	145 135	140 130	PTO MAG
20°C 70°F	180 170	170 160	160 150	150 140	140 130	135 125	PTO MAG

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

NOTE: Shaded columns give factory settings.

SKANDIC WT

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange 414 689 700	←	←	Blue/Green 414 817 700	←	←
Ramp	417 005 290	←	←	←	←	←
Calibration Screw Position	4	5	6	2	3	4
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3000	←	←	3300	←	←
Maximum RPM ± 100	6800	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring	Blue ACS 3-188	←	←	←	←	←
Spring tension Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	40°	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	185	175	165	155	145	135	PTO MAG
Jet needle	6DH2	←	←	←	←	←	2
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	←	←	←	2
Air screw	1.25	←	←	1.75	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-2 (159)	←	←	←	←	←	2
Float level	mm	36.5	←	←	←	←	—
Idle	RPM ± 200	1500 - 1800	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9

MAIN JET CHART

Altitude Temperature	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	195	185	175	165	155	145	PTO MAG
- 30°C - 20°F	190	180	170	160	150	140	PTO MAG
- 20°C - 4°F	185	175	165	155	145	135	PTO MAG
- 10°C 14°F	180	170	160	150	140	130	PTO MAG
0°C 32°F	175	165	155	145	135	125	PTO MAG
10°C 50°F	170	160	150	140	130	120	PTO MAG
20°C 70°F	165	155	145	135	125	115	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA DLX 500

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Red 414 993 000	←	Blue/Yellow 414 689 500	←	←	←
Ramp	417 005 291X	←	417 005 292X	←	←	←
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3300	←	3600	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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 Position 3	←	←	←	←	←
Cam angle (degrees)	47° - 44° 417 124 700	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

CAUTION: The following adjustments are guide-lines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle	6DH2	←	←	←	←	←	2
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	45	←	←	2
Air screw	1.875	←	←	1.5	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0 (159)	←	←	←	←	←	2
Float level	mm 23.9	←	←	←	←	←	—
Idle	RPM ± 200 1650	←	←	←	←	←	—
Idle throttle valve position	mm 1.5	←	1.6	1.7	1.8	1.85	—

MAIN JET CHART

Altitude Temperature	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	200 190	190 180	175 165	165 155	155 145	140 130	PTO MAG
- 30°C - 20°F	190 180	180 170	165 155	155 145	145 135	135 125	PTO MAG
- 20°C - 4°F	180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
- 10°C 14°F	170 160	160 150	155 145	145 135	135 125	125 115	PTO MAG
0°C 32°F	165 155	155 145	150 140	140 130	130 120	120 110	PTO MAG
10°C 50°F	160 150	150 140	140 130	130 120	125 115	115 105	PTO MAG
20°C 70°F	155 145	145 135	135 125	125 115	120 110	110 100	PTO MAG

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

NOTE: Shaded columns give factory settings.

TOURING SLE/SKANDIC 500

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Red 414 689 800	←	Yellow/Green 414 742 100	←	←	←
Ramp	417 005 291X	←	417 005 284	←	←	←
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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 Position 3	←	←	←	←	←
Cam angle (degrees)	47° - 44° 417 124 700	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

CAUTION: The following adjustments are guide-lines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle	6DH2	←	←	←	←	←	2
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	45	←	←	2
Air screw	1.88	←	←	0.75	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0 (159)	←	←	←	←	←	2
Float level	mm 23.9	←	←	←	←	←	—
Idle	RPM ± 200 1650	←	←	1550	←	←	—
Idle throttle valve position	mm 1.5	1.8	2.1	2.4	2.5	2.6	—

MAIN JET CHART

Altitude Temperature	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	200 190	190 180	175 165	165 155	155 145	140 130	PTO MAG
- 30°C - 20°F	190 180	180 170	165 155	155 145	145 135	135 125	PTO MAG
- 20°C - 4°F	180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
- 10°C 14°F	170 160	160 150	155 145	145 135	135 125	125 115	PTO MAG
0°C 32°F	165 155	155 145	150 140	140 130	130 120	120 110	PTO MAG
10°C 50°F	160 150	150 140	140 130	130 120	125 115	115 105	PTO MAG
20°C 70°F	155 145	145 135	135 125	125 115	120 110	110 100	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA 500 LC

DRIVE PULLEY

Altitude Clutching	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/Blue 414 768 200	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	2	3	4	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	4300	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	50° 417 126 343	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	300 280	280 260	260 240	240 220	220 200	200 180	PTO MAG
Jet needle	6DGY9	←	←	←	←	←	2
Needle position	2	←	←	1	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	50	←	←	55	←	←	2
Air screw	1.0	←	←	2.5	←	←	—
Valve seat	1.5 (V)	←	←	←	←	←	—
Needle jet	Q-3 (480)	←	←	←	←	←	2
Float level	mm 18.1	←	←	←	←	←	—
Idle	RPM ± 200 1800	←	←	←	←	←	—
Idle throttle valve position	mm 1.8	1.9	2.1	2.3	2.4	2.5	—

MAIN JET CHART

Altitude Temperature	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	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA DLX 500 LC

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	←	←	←
Ramp	417 005 286	←	←	417 005 281	←	←
Calibration Screw Position	2	3	4	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	50° 417 126 343	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	300 280	280	260	240	220	200	PTO MAG
Jet needle	6DGY9	←	←	←	←	←	2
Needle position	2	←	←	1	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	50	←	←	55	←	←	2
Air screw	1.0	←	←	2.5	←	←	—
Valve seat	1.5 (V)	←	←	←	←	←	—
Needle jet	Q-3 (480)	←	←	←	←	←	2
Float level	mm 18.1	←	←	←	←	←	—
Idle	RPM ± 200 1800	←	←	←	←	←	—
Idle throttle valve position	mm 1.8	1.9	2.1	2.3	2.4	2.5	—

MAIN JET CHART

Altitude Temperature	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	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

NOTE: Shaded columns give factory settings.

TOURING 500 LC

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green 414 817 700	←	←	Blue/Blue 414 689 400	←	←
Ramp	417 005 228	←	←	←	←	←
Calibration Screw Position	2	3	4	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	44° 417 126 333	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle	6DGY9	←	←	←	←	←	2
Needle position	2	←	←	1	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	50	←	←	55	←	←	2
Air screw	1.0	←	←	2.5	←	←	—
Valve seat	1.5 (V)	←	←	←	←	←	—
Needle jet	Q-3 (480)	←	←	←	←	←	2
Float level	mm 18.1	←	←	←	←	←	—
Idle	RPM ± 200 1800	←	←	←	←	←	—
Idle throttle valve position	mm 1.8	1.9	2.1	2.3	2.4	2.5	—

MAIN JET CHART

Altitude Temperature	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	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

NOTE: Shaded columns give factory settings.

SKANDIC WT LC

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Yellow/Blue 414 818 000	←	Red/Red 414 689 800	←	←	←
Ramp	417 005 290	←	←	←	←	←
Calibration Screw Position	4	5	3	4	5	6
Pin	417 004 308	←	417 004 309	←	←	←
Engagement RPM ± 100	2500	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Blue ACS 3-188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←
Cam angle	(degrees)	40°	←	←	←	←

Additional Information: At and above 1800 m (6000 ft) unscrew rave caps by two (2) turns.

CAUTION: The following adjustments are guide-lines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURATION

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration							
Main jet	250 240	240 230	230 220	220 210	210 200	200 190	PTO MAG
Jet needle	6DGH 10	←	←	←	←	←	2
Needle position	2	←	←	1	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	←	←	←	2
Air screw	1.5	←	←	1.0	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-2 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	270 260	260 250	250 240	240 230	230 220	220 210	PTO MAG
- 30°C - 20°F	260 250	250 240	240 230	230 220	220 210	210 200	PTO MAG
- 20°C - 4°F	250 240	240 230	230 220	220 210	210 200	200 190	PTO MAG
- 10°C 14°F	240 230	230 220	220 210	210 200	200 190	190 180	PTO MAG
0°C 32°F	230 220	220 210	210 200	200 190	190 180	180 170	PTO MAG
10°C 50°F	220 210	210 200	200 190	190 180	180 170	170 160	PTO MAG
20°C 70°F	210 200	200 190	190 180	170 170	160 160	150 150	PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 500

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	Violet/green 415 015 400	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	44° 417 126 333	←	←	40° - 44° 417 126 321	←	←

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

CARBURATION

Altitude Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		6DEY 10/4	←	←	←	←	←	2
Needle position		4	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-8 (480)	←	←	P-6 (480)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	1.4	1.5	1.6	1.8	1.9	2.0	—

MAIN JET CHART

Altitude Temperature	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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	280	270	250	230	220	210	PTO MAG
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 600

DRIVE PULLEY

Altitude Clutching	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	←	←	Blue/Orange 414 639 000	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	8.2 18.0	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/43.

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	280	270	250	230	220	210	PTO MAG
Jet needle	ZDFY1	←	←	←	←	←	2
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	37.5	←	←	45	←	←	2
Air screw	0.5	←	←	0.75	←	←	—
Valve seat	1.5 (V)	←	←	←	←	←	—
Needle jet	Z-9 (224)	←	←	Z-7 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9

MAIN JET CHART

Altitude Temperature	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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	280	270	250	230	220	210	PTO MAG
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 600 (PERFORMANCE)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	←	←	←	Green/Blue 414 768 200	←
Ramp		←	←	←	←	417 005 294	←
Calibration Screw Position		4	5	3	4	5	6
Pin		←	417 004 308	←	←	417 004 309	←
Engagement RPM ± 100		←	4000	←	←	4200	←
Maximum RPM ± 100		←	←	←	←	8000	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	7.0 15.4	←
Cam angle	° (degrees)	←	←	←	←	47° 417 126 337	←

NOTE: For *Carburation and Main Jet* charts, refer to **preceding page**, MX Z 600.

MX Z 600 SB (PERFORMANCE)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	←	←	←	Green/Blue 414 768 200	←
Ramp		←	←	←	←	417 005 294	←
Calibration Screw Position		4	5	3	4	5	6
Pin		←	←	←	←	417 004 309	←
Engagement RPM ± 100		←	4000	←	←	4200	←
Maximum RPM ± 100		←	←	←	←	8000	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	7.0 15.4	←
Cam angle	° (degrees)	←	←	←	←	47° 417 126 337	←

NOTE: For *Carburation and Main Jet* charts, refer to **following page**, MX Z 600 SB.

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

NOTE: Shaded columns give factory settings.

MX Z 600 SB

DRIVE PULLEY

Altitude Clutching	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	←	←	Blue/Orange 414 639 000	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	8.2 18.0	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/4

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

MAIN JET CHART

Altitude Temperature	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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	280	270	250	230	220	210	PTO MAG
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	280	270	250	230	220	210	PTO MAG
Jet needle	7DFY 1	←	←	←	←	←	2
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	37.5	←	←	45	←	←	2
Air screw	0.50	←	←	0.75	←	←	—
Valve seat	1.5 (V)	←	←	←	←	←	—
Needle jet	Z-9 (224)	←	←	Z-7 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9

NOTE: Shaded columns give factory settings.

FORMULA DLX 600

DRIVE PULLEY

Altitude Clutching	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	←	←	Blue/Orange 414 639 000	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	8.2 18.0	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/43.

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

CARBURATION

Altitude Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		7DFY 1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		37.5	←	←	45	←	←	2
Air screw		0.50	←	←	0.75	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Z-9 (224)	←	←	Z-7 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—

MAIN JET CHART

Altitude Temperature	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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	280	270	250	230	220	210	PTO MAG
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

NOTE: Shaded columns give factory settings.

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

GRAND TOURING 600

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	←	←	←	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	47° 417 126 337	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/43.

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

CARBURATION

Altitude Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		7DFY 1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		37.5	←	←	45	←	←	2
Air screw		0.50	←	←	0.75	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Z-9 (224)	←	←	Z-7 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—

MAIN JET CHART

Altitude Temperature	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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	280	270	250	230	220	210	PTO MAG
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 222 271	←	←	417 005 297	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	47° 417 126 337	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	280	270	250	230	220	210	PTO MAG
Jet needle	7DHY 6	←	←	←	←	←	2
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	45	←	←	←	←	←	2
Air screw	1.0	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	Z-7 (224)	←	←	Z-5 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.2

MAIN JET CHART

Altitude Temperature	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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	280	270	250	230	220	210	PTO MAG
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700 SB

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 222 271	←	←	417 005 297	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	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	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	47° 417 126 337	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	280	←	←	←	←	←	PTO MAG
Jet needle	7DHY 6	←	←	←	←	←	2
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	45	←	←	←	←	←	2
Air screw	1.0	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	Z-7 (224)	←	←	←	←	←	2
Float level	mm 22.9	←	←	←	←	←	—
Idle	RPM ± 200 1600	←	←	←	←	←	—
Idle throttle valve position	mm 1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Altitude Temperature	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	290	←	←	←	←	←	PTO MAG
- 30°C - 20°F	290	←	←	←	←	←	PTO MAG
- 20°C - 4°F	280	←	←	←	←	←	PTO MAG
- 10°C 14°F	280	←	←	←	←	←	PTO MAG
0°C 32°F	280	←	←	←	←	←	PTO MAG
10°C 50°F	280	←	←	←	←	←	PTO MAG
20°C 70°F	280	←	←	←	←	←	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA DLX 700

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet/Violet 414 817 900	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 222 271	←	←	417 005 297	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	←	417 004 308	←	←	417 004 309	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←
Cam angle (degrees)	47° 417 126 337	←	←	←	←	←

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

CARBURATION

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration							
Main jet	280	270	250	230	220	210	PTO MAG
Jet needle	7DHY 6	←	←	←	←	←	2
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	45	←	←	←	←	←	2
Air screw	1.0	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	Z-7 (224)	←	←	Z-5 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.2

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	280	270	250	230	220	210	PTO MAG
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA Z 600/700

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 297	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←
Cam angle	(degrees)	47° 417 126 337	←	←	←	←

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

CARBURATION

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration							
Main jet	300	290	250	230	220	210	PTO MAG
Jet needle	7DHY 6	←	←	←	←	←	2
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	45	←	←	2
Air screw	1.0	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	Z-7 (224)	←	←	Z-5 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	320	310	290	270	260	250	PTO MAG
- 30°C - 20°F	310	300	280	260	250	240	PTO MAG
- 20°C - 4°F	300	290	270	250	240	230	PTO MAG
- 10°C 14°F	290	280	260	240	230	220	PTO MAG
0°C 32°F	280	270	250	230	220	210	PTO MAG
10°C 50°F	270	260	240	220	210	205	PTO MAG
20°C 70°F	260	250	230	210	205	200	PTO MAG

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

NOTE: Shaded columns give factory settings.

MACH 1 R

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Green/Violet 414 762 800	←	Violet/ Green 415 015 400	←	←	←
Ramp	417 005 297	←	417 005 285	←	←	←
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	4200	←	←	←	←	←
Maximum RPM ± 100	8500	←	←	←	←	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° 417 126 385	←	←	←	←

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

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		290	270	240	220	200	170	PTO CTR MAG
Jet needle		8AGY 1/41	←	←	←	←	←	3
Needle position		4	←	←	3	←	2	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		4.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		N-7 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.6	1.7	1.8	—

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	310	290	260	240	210	190	PTO CTR MAG
- 30°C - 20°F	300	280	250	230	200	180	PTO CTR MAG
- 20°C - 4°F	290	270	240	220	200	170	PTO CTR MAG
- 10°C 14°F	280	260	240	210	190	170	PTO CTR MAG
0°C 32°F	270	250	230	210	180	160	PTO CTR MAG
10°C 50°F	260	240	220	200	180	160	PTO CTR MAG
20°C 70°F	250	230	210	190	170	150	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

FORMULA III 700 R

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 293X	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet 414 978 300	←	←	←	←	←
Spring tension Kg ± 0.7 lb ± 1.5	—	—	—	—	—	—
Cam angle (degrees)	47° - 44° 417 126 385	←	←	←	←	←

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

CARBURATION

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration							
Main jet	270 280 270	250 260 250	230 240 230	210 220 210	190 200 190	170 180 170	PTO CTR MAG
Jet needle	6DEY2	←	←	←	←	←	3
Needle position	4	4	3	3	3	2	—
Slide cut-away	2.5	←	←	←	←	←	3
Pilot jet	50	←	←	←	←	←	3
Air screw	1.5	1.5	1.25	1.0	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-4 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.6	1.7	1.8

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	290 300 290	270 280 270	240 250 240	220 230 220	190 200 190	170 180 170	PTO CTR MAG
- 30°C - 20°F	280 290 280	260 270 260	230 240 230	210 220 210	190 200 190	170 180 170	PTO CTR MAG
- 20°C - 4°F	270 280 270	250 260 250	230 240 230	210 220 210	180 190 180	160 170 160	PTO CTR MAG
- 10°C 14°F	260 270 260	230 240 230	210 220 210	190 200 190	170 180 170	150 160 150	PTO CTR MAG
0°C 32°F	260 270 260	230 240 230	210 220 210	190 200 190	170 180 170	150 160 150	PTO CTR MAG
10°C 50°F	250 260 250	230 240 230	210 220 210	180 190 180	160 170 160	150 160 150	PTO CTR MAG
20°C 70°F	240 250 240	220 230 220	200 210 200	180 190 180	160 170 160	140 150 150	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

GRAND TOURING 700

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Blue/Violet 414 817 800	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 005 293X	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3200	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	—	—	—	—	—
Cam angle	° 47° - 44° 417 126 385	←	←	←	←	←

Additional Information: At 1800 m (6000 ft), unscrew red rave button flush to the rave cap.

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

CARBURATION

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration							
Main jet	270 280 270	←	←	←	←	←	PTO CTR MAG
Jet needle	6DEY2	←	←	←	←	←	3
Needle position	4	←	←	←	←	←	—
Slide cut-away	2.5	←	←	←	←	←	3
Pilot jet	50	←	←	←	←	←	3
Air screw	1.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-4 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	—
Idle	RPM ± 200	2000	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.6	1.7	1.8

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	290 300 290	270 280 270	240 250 240	220 230 220	190 200 190	170 180 170	PTO CTR MAG
- 30°C - 20°F	280 290 280	260 270 260	230 240 230	210 220 210	190 200 190	170 180 170	PTO CTR MAG
- 20°C - 4°F	—	—	—	—	—	—	PTO CTR MAG
- 10°C 14°F	—	—	—	—	—	—	PTO CTR MAG
0°C 32°F	—	—	—	—	—	—	PTO CTR MAG
10°C 50°F	—	—	—	—	—	—	PTO CTR MAG
20°C 70°F	—	—	—	—	—	—	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

FORMULA III 800

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Violet/Yellow 415 015 300	←	←	←	←	←
Ramp		417 005 295	←	417 222 271	←	←	←
Calibration Screw Position		2	3	2	3	4	5
Pin		417 004 308	←	417 004 309	←	←	←
Engagement RPM ± 100		3800	←	4200	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.9 / 7.0	—	—	—	—	—
Cam angle	° (degrees)	50° - 47° 417 126 339	←	←	←	←	←

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

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		340 360 340	310 330 310	280 300 280	250 270 250	220 240 220	200 220 200	PTO CTR MAG
Jet needle		8BCY 01/42	←	←	←	←	←	3
Needle position		4	4	3	3	3	2	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		15	←	←	←	←	←	3
Air screw		closed	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		O2 (876)	←	←	←	←	←	3
Float level	mm	21.0	—	—	—	—	—	—
Idle	RPM ± 200	2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.3	1.4	1.4	1.5	1.5	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F		360 380 360	330 350 330	300 320 300	270 290 270	240 260 240	210 230 210	PTO CTR MAG
- 30°C - 20°F		350 370 350	320 340 320	290 310 290	260 280 260	230 250 230	200 220 200	PTO CTR MAG
- 20°C - 4°F		340 360 340	310 330 310	280 300 280	250 270 250	220 240 220	200 220 200	PTO CTR MAG
- 10°C 14°F		330 350 330	300 320 300	270 290 270	240 260 240	210 230 210	190 210 190	PTO CTR MAG
0°C 32°F		320 340 320	290 310 290	260 280 260	230 250 230	200 220 200	180 200 180	PTO CTR MAG
10°C 50°F		310 330 310	280 300 280	250 270 250	220 240 220	200 220 200	180 200 180	PTO CTR MAG
20°C 70°F		300 320 300	270 290 270	240 260 240	210 230 210	190 210 190	170 190 170	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

GRAND TOURING SE

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 293X	←	←	417 222 271	←	←
Calibration Screw Position	3	3	4	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3300	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	—	—	—	—	—
Cam angle (degrees)	47° - 44° 417 126 385	←	←	←	←	←

Additional Information: At 1800 m (6000 ft), unscrew red rave button flush to the rave cap.

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

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		340 360 340	←	←	←	←	←	PTO CTR MAG
Jet needle		8BCY 01/42	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		15	←	←	←	←	←	3
Air screw		closed	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		O2 (876)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.3	1.4	1.4	1.5	1.5	—

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	360 380 360	330 350 330	300 320 300	270 290 270	240 260 240	210 230 210	PTO CTR MAG
- 30°C - 20°F	350 370 350	320 340 320	290 310 290	260 280 260	230 250 230	200 220 200	PTO CTR MAG
- 20°C - 4°F	—	—	—	—	—	—	PTO CTR MAG
- 10°C 14°F	—	—	—	—	—	—	PTO CTR MAG
0°C 32°F	—	—	—	—	—	—	PTO CTR MAG
10°C 50°F	—	—	—	—	—	—	PTO CTR MAG
20°C 70°F	—	—	—	—	—	—	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

MACH Z/Z R

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Green/Blue 414 768 200	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 005 295	←	←	417 005 293X	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	4200	←	←	←	←	←
Maximum RPM ± 100	8300	←	←	←	←	←

DRIVEN PULLEY (Mach Z)

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Beige 414 558 900	←	←	←	←	←
Spring tension Kg ± 0.7 lb ± 1.5	7.9/7.0	←	←	←	←	←
Cam angle (degrees)	53° - 44° 417 126 387	←	←	50° - 47° 417 126 339	←	←

DRIVEN PULLEY (Mach Z R)

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet 414 978 300	←	←	←	←	←
Spring tension Kg ± 0.7 lb ± 1.5	—	—	—	—	—	—
Cam angle (degrees)	47° - 44° 417 126 385	←	←	←	←	←

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

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		310	290	270	250	230	210	PTO CTR MAG
Jet needle		8ADY 1/41	←	←	←	←	←	3
Needle position		3	3	2	2	2	1	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		4.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		O2 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.4	1.5	1.5	1.6	—

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature							
- 40°C - 40°F	330	310	290	270	240	220	PTO CTR MAG
- 30°C - 20°F	320	300	280	260	230	210	PTO CTR MAG
- 20°C - 4°F	310	290	270	250	230	210	PTO CTR MAG
- 10°C 14°F	300	280	260	240	220	200	PTO CTR MAG
0°C 32°F	290	270	250	230	210	190	PTO CTR MAG
10°C 50°F	280	260	240	220	200	190	PTO CTR MAG
20°C 70°F	270	250	230	210	200	180	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

➔ SKANDIC SWT

DRIVE PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange 414 689 700	←	←	←	←	Blue/Yellow 414 689 500
Ramp	417 005 290	←	←	←	←	←
Calibration Screw Position	2	3	4	5	6	3
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3000	←	←	←	←	3300
Maximum RPM ± 100	6800	←	←	←	←	←

DRIVEN PULLEY

Altitude Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring	Blue ACS 3-188	←	←	←	←	←
Spring tension Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle (degrees)	40°	←	←	←	←	←

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

CARBURATION

Altitude Calibration	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	185	175	165	155	145	135	PTO MAG
Jet needle	6DH2	←	←	←	←	←	2
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	2
Pilot jet	40	←	←	←	←	←	2
Air screw	1.25	←	←	1.75	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-2 (159)	←	←	←	←	←	2
Float level mm	36.5	←	←	←	←	←	—
Idle RPM ± 200	1500- 1800	←	←	←	←	←	—
Idle throttle valve position mm	1.5	1.5	1.6	1.7	1.8	1.9	—

MAIN JET CHART

Altitude Temperature	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	195	185	175	165	155	145	PTO MAG
- 30°C - 20°F	190	180	170	160	150	140	PTO MAG
- 20°C - 4°F	185	175	165	155	145	135	PTO MAG
- 10°C 14°F	180	170	160	150	140	130	PTO MAG
0°C 32°F	175	165	155	145	135	125	PTO MAG
10°C 50°F	170	160	150	140	130	120	PTO MAG
20°C 70°F	165	155	145	135	125	115	PTO MAG

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

NOTE: Shaded columns give factory settings.

Please route to :

☐ Service	☐ Init.
☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-6**

Date: November 19, 1999

**SUBJECT: After-Storage Starting
Procedure**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	All	All	All

NEW SERVICE PROCEDURE

After a storage period, the following procedure must be done:

Bombardier recommends to fill fuel tank and add 500 mL (18 imp. oz) of Bombardier Injection Oil (P/N 413 802 900, 12 x 1 L) **before** starting the snowmobile engine.

Increasing lubrication, oil addition eases start and extends the duration of engine, especially for snowmobiles with 2 years of age and more.

Please route to :

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☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-8**

Date: December 3, 1999

**SUBJECT: Beeper Harness Modification
on Reverse Transmission Kit**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	All	All	All

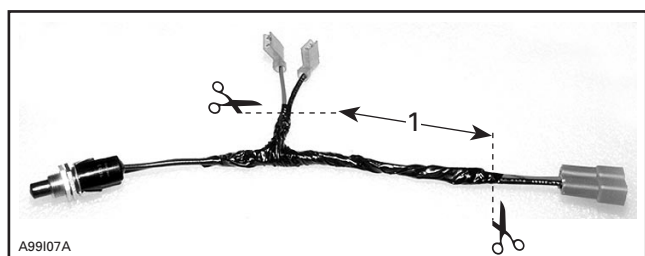
On following Reverse Transmission kits:

- P/N 860 423 600
- P/N 860 423 700
- and P/N 860 423 800

electrical harness connectors may be inversed and single thread connectors do not have long enough wire to reach beeper. In that case, connectors should be interchanged.

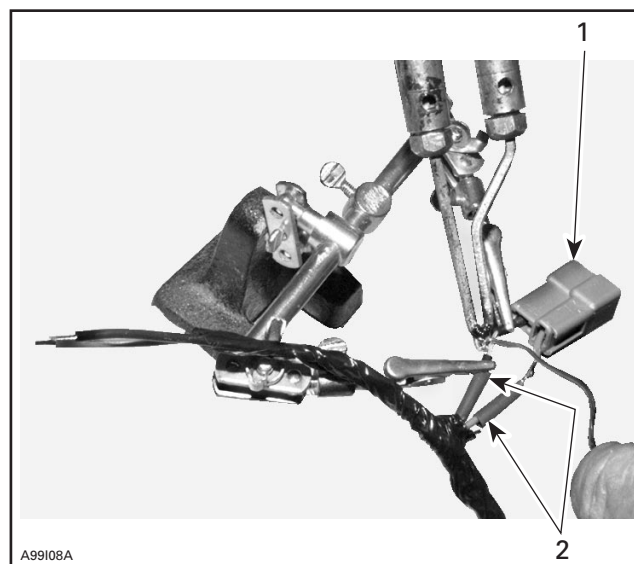
PROCEDURE

Unwrap wires of harness on a length of 5 cm (2 in). Using a pair of cutters, cut wires at 2 cm (1 in) from connectors. Make sure to keep long enough of wire with connectors to be able to solder them.



1. Unwrap and cut here

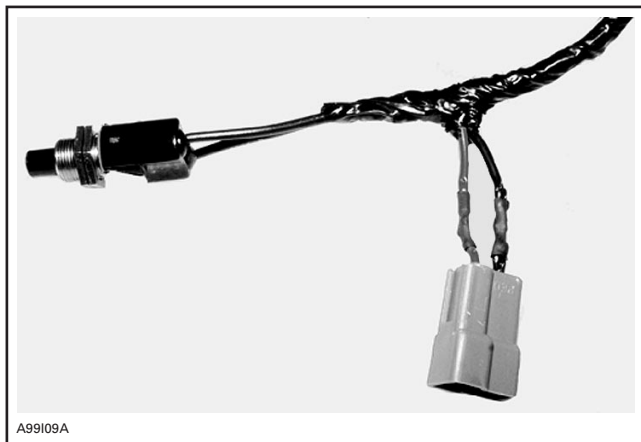
Insert pieces of heat shrinkable tubing (3 mm diameter (1/8 in)) on wires and solder each wire with connector to its new location. Heat shrinkable tubing can be bought at any local electronic supplier.



1. Connector
2. Heat shrinkable tubing

NOTE: Make sure to respect wire colors (solder black wire with black wire and red wire with red color).

Shrink tubing on solderings.



CONNECTOR ON ITS NEW LOCATION

Install harness in place.

Please route to :

	Init.
☐ Service	☐
☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-9**

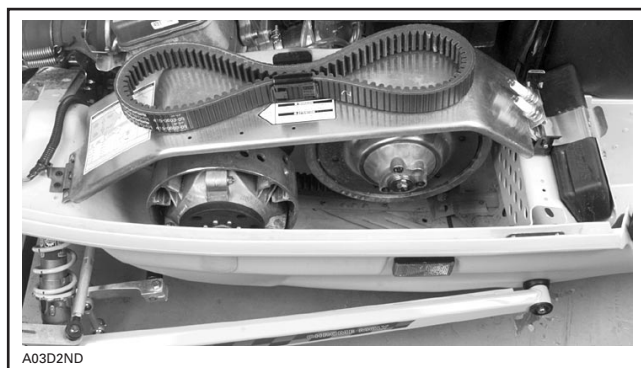
Date: December 10, 1999

**SUBJECT: A) Spare Drive Belt Holder
B) Pulley Adjustment
C) Adjustable Windshield
D) Emergency Choke**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	All fan cooled snowmobiles (subject A)	All	All
All	All models (subject B)	All	All
2000	Grand Touring* SE (subject C and D)	1493/1648	All

A) SPARE DRIVE BELT HOLDER

A belt holder is available as a spare part or as an option for snowmobiles which don't have this device. Part number is 517 281 905. This part is available through regular channel.



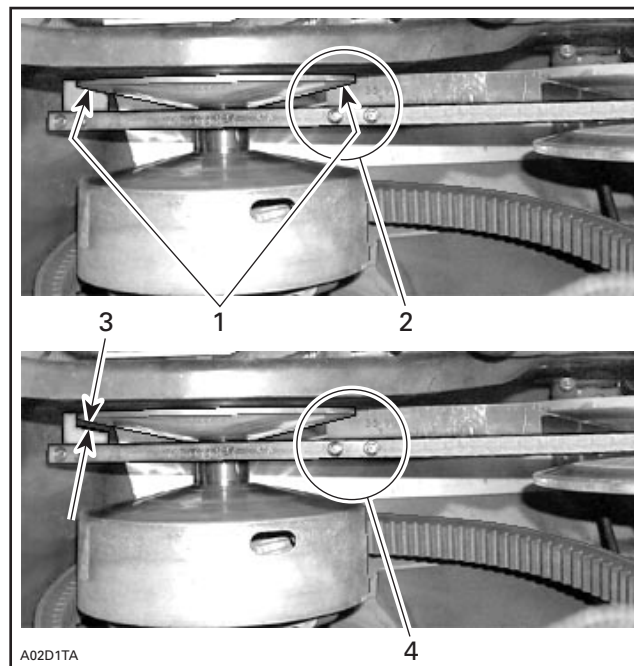
TYPICAL — VIEW FOR REFERENCE ONLY

Spare drive belt holder must be installed in a way spare belt can not touch any sharp edge or hot part. On some new fan cooled models the engine duct does not manage enough room to install this drive belt holder. Verify before installation and install only if applicable.

NOTE: To secure the spare drive belt holder on belt guard, use 2 steel rivets (P/N 390 402 200).

B) PULLEY ADJUSTMENT

When a transmission alignment bar is used as a verification bar, make sure the X tab does not interfere with drive pulley. This situation will change the Y dimension and it will appear the alignment is off.



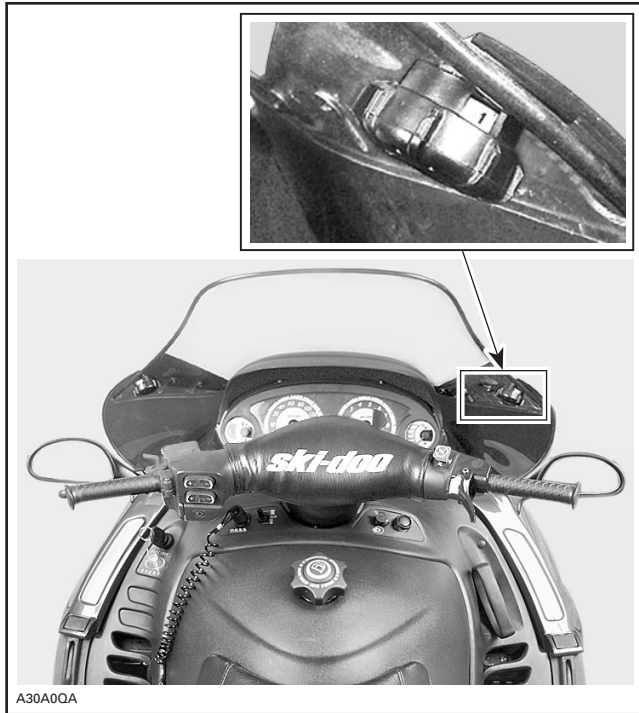
TYPICAL

1. Both tabs seated on drive pulley
2. X tab fitting between drive and driven pulley
3. Y tab not correctly seated on drive pulley
4. X tab interference, alignment bar is pushed out of drive pulley fixed half and create a gap at Y tab

NOTE: To have an accurate reading while checking pulley alignment, use a straight bar with a caliper.

C) ADJUSTABLE WINDSHIELD

To adjust new windshield on Grand Touring SE, always sit on snowmobile and turn both adjustment buttons at the same time. Failure to do so may jam the mechanism.



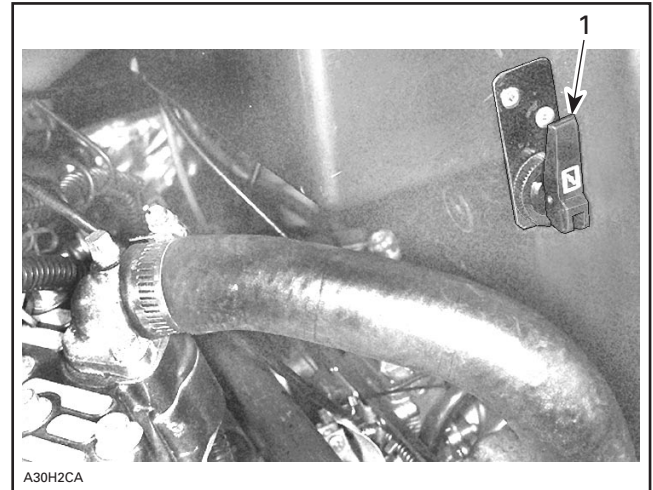
BOTH LEFT AND RIGHT BUTTON MUST BE TURNED AT THE SAME TIME

NOTE: Customers must be advised of this item prior to snowmobile delivery.

D) EMERGENCY CHOKE

When emergency choke adjustment is necessary, cable routing must be placed as per routing set when cable and choke were first installed, accordingly to their functional position, as when snowmobile was delivered at dealership. Failure to do so will manage to a bad choke plunger adjustment (opening or lack of opening) when the choke lever is installed on air silencer.

CAUTION: Incorrect adjustment may lead to spark plugs failure.



1. Emergency choke lever

NOTE: This choke is only for emergency situation, when engine refuses to start, and should not be used otherwise. Customers must be advised of this item prior to snowmobile delivery.

Please route to :

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SNOWMOBILES



SERVICE
Bulletin

No. **2000-10**

Date: December 10, 1999

SUBJECT: Ten Hour Inspection

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	All	All	All

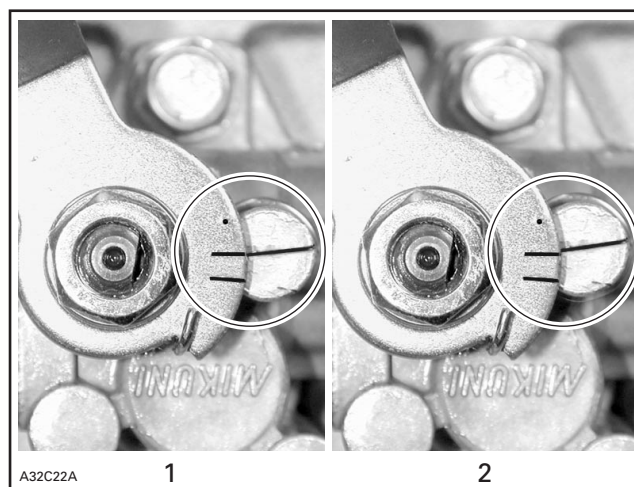
When a new snowmobile is put in operation, the first 10 hours or 500 km (300 mi) of operation should be considered as a break-in period. After this break-in period, a general check-up and tuning must be performed. The *Operator's Guide* describes each item to be inspected on the vehicle. See *Lubrication and Maintenance Chart*. On 2000 snowmobiles, and especially on ZX platform models, a special attention should be paid to the oil pump adjustment.

OIL PUMP ADJUSTMENT

All ZX models

Parallax Problem

When adjusting pump lever, since the mechanic can not view the pump perpendicularly, the adjustment will not be accurate. The following photos show three different views of a properly adjusted pump.

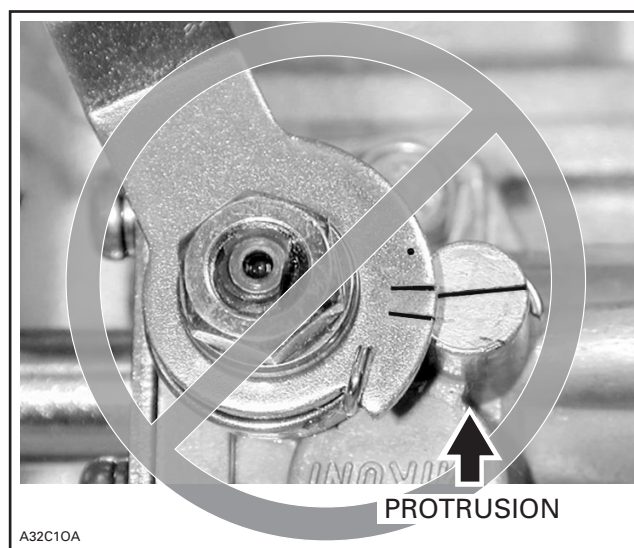


VIEW STRAIGHT AHEAD — BODY'S PROTRUSION LOOKS LIKE A CIRCLE, MARK ON PUMP ALIGN WITH SECOND MARK ON LEVER (MARK ON DOT SIDE)

1. minimum setting
2. maximum setting



VIEW TOO HIGH — ADJUSTMENT SEEMS TO BE TOO RICH WHEN TOP OF BODY'S PROTRUSION CAN BE SEEN



VIEW TOO LOW — ADJUSTMENT SEEMS TO BE TOO LEAN WHEN BOTTOM OF BODY'S PROTRUSION CAN BE SEEN

Because the oil pump is mounted low on engine and hidden behind fuel pump, it is very difficult to avoid parallax problem and set a good adjustment.

Procedure for Oil Pump Adjustment

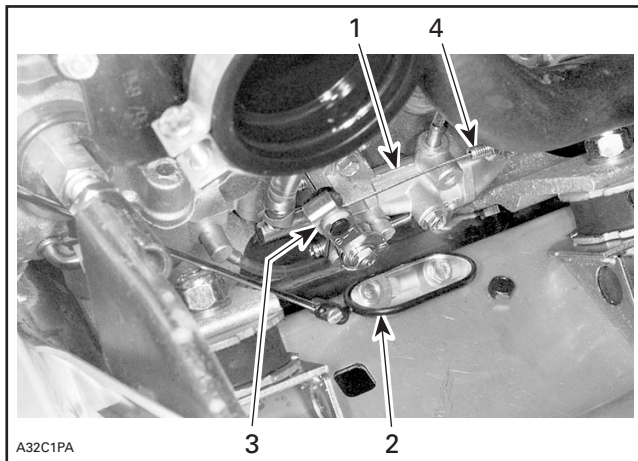
Ensure carburetors are synchronized according to the technical specifications.

Remove air box. Carburetors may also be removed to improve visibility and ease adjustment of oil pump cable.

NOTE: Place carburetors on top of intake boots to keep cable routing near original location.

Lightly depress throttle lever to remove free play from cable.

Using a small round or oblong mirror, look if mark on oil pump body is aligned with second mark (0, + 1 mm or 0, + 1/32 in) on oil pump lever (mark on dot side).



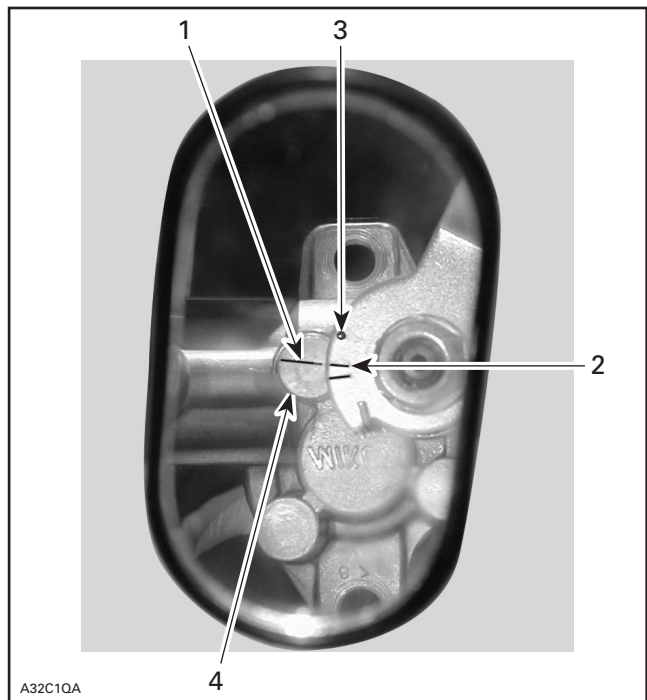
VIEW WITH AIR BOX, CARBURETORS AND FUEL PUMP REMOVED

1. Oil pump
2. Mirror
3. Lever
4. Adjustment Screw

NOTE: Fuel pump was removed to make a clear photo. There is no need for fuel pump removal while adjusting oil pump.

Make sure that view in mirror is straight ahead, without parallax problem.

Protrusion with fixed mark on pump must look like a full circle. See next photo.



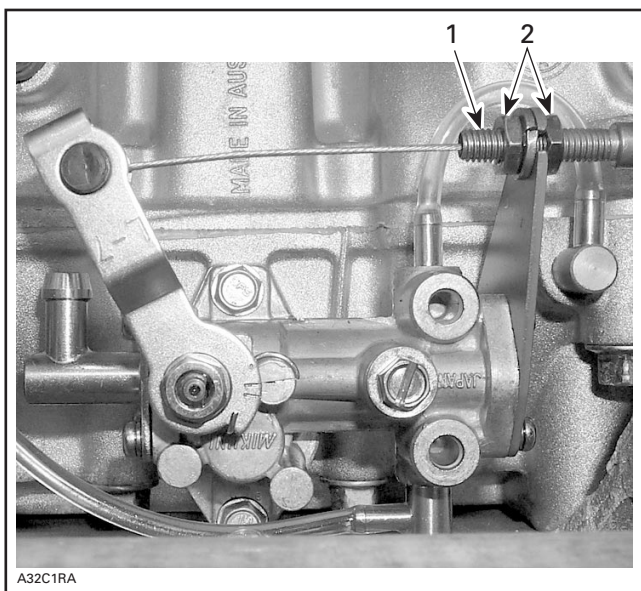
VIEW FROM MIRROR SHOULD LOOK LIKE THIS

1. Mark on pump body
2. Second mark on lever
3. Dot
4. Pump protrusion as a circle, not a cylinder

If marks do not align, loosen jam nut from oil pump cable, adjust cable with adjusting nut to make sure mark on pump body align with mark on pump lever (from mark to mark to + 1 mm (+ 1/32 in) over) and secure with jam nut to 5 N•m (3.7 lbf•ft).

WARNING

Torque wrench tightening specifications must be strictly adhered to. Locking devices (ex.: locking tab, elastic stop nut, self-locking fasteners, etc.) must be installed or replaced with new ones where specified. If the efficiency of a locking device is impaired, it must be renewed.



1. Adjuster housing of oil pump cable
2. Jam nut and adjusting nut

WARNING

Make sure cable is free to swivel in lever end.

Reinstall carburetors (if formerly removed) and air box as per *2000 Ski-Doo Shop Manual*.

CK3 and S-Series platforms

See appropriate 2000 Ski-Doo Shop Manual for procedure.

NOTE: This pump adjustment procedure also applies to 1999 models.

Please route to :

	Init.
☐ Service	☐
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☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-7**

REVISION 1

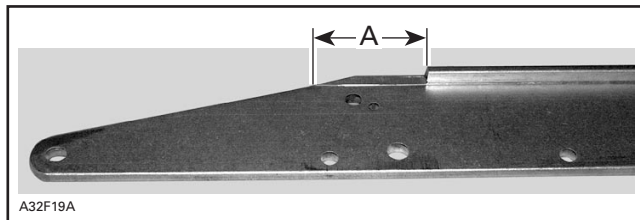
Date: December 10, 1999

SUBJECT: Rail Extension Installation
re: Kit P/N 861 773 200

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	All equipped with SC-10 II type suspensions	All	All

Both RH side and LH side rail extensions need to be modified for a proper installation of kit P/N 861 773 200 on SC-10 II type suspension.

Inner rib forward end needs to be grinded for a length of 57 mm (2-1/4 in).



RH SIDE RAIL EXTENSION SHOWN

A. 57 mm (2-1/4 in)

This modification will avoid interference with vehicle suspension rail.

All kits bought on or after November 10, 1999 have been modified accordingly.

All kits in stock, ordered and received prior to November 10, 1999, should be modified.

Please notify all involved personnel.

Please route to :

☐ Service	☐ Init.
☐ Sales	☐
☐ Parts	☐



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SERVICE
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No. **2000-11**

Date: December 17, 1999

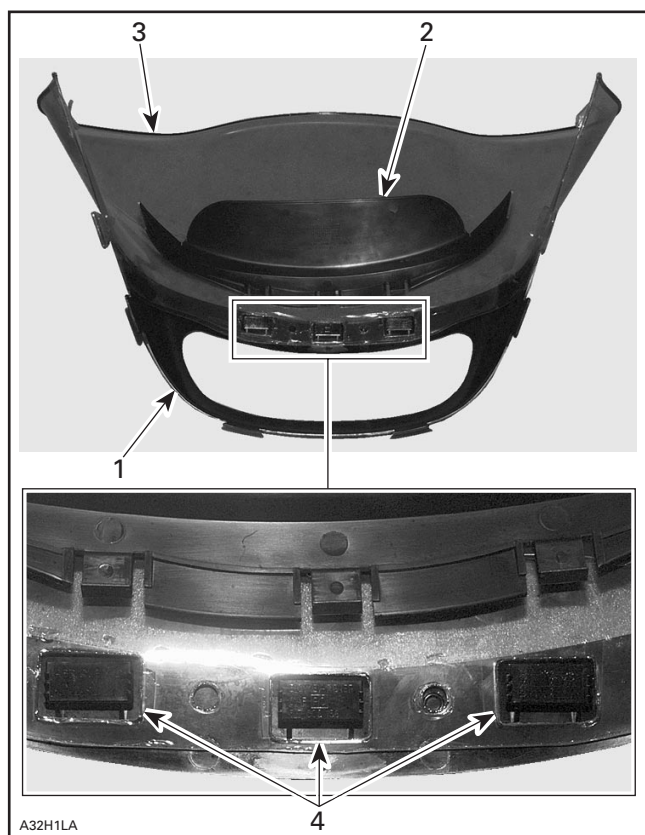
**SUBJECT: High Windshield Installation on
Grand Touring 600**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	Grand Touring 600	1488/1489/1490	All

On Grand Touring 600, windshield is held by headlamp moulding and windshield support. To install it, insert headlamp moulding in square holes of windshield.

Then, assembly is secured while snapping windshield support in place.

NOTE: The base of the square holes in windshield must touch the bottom part of the headlamp moulding ribs.

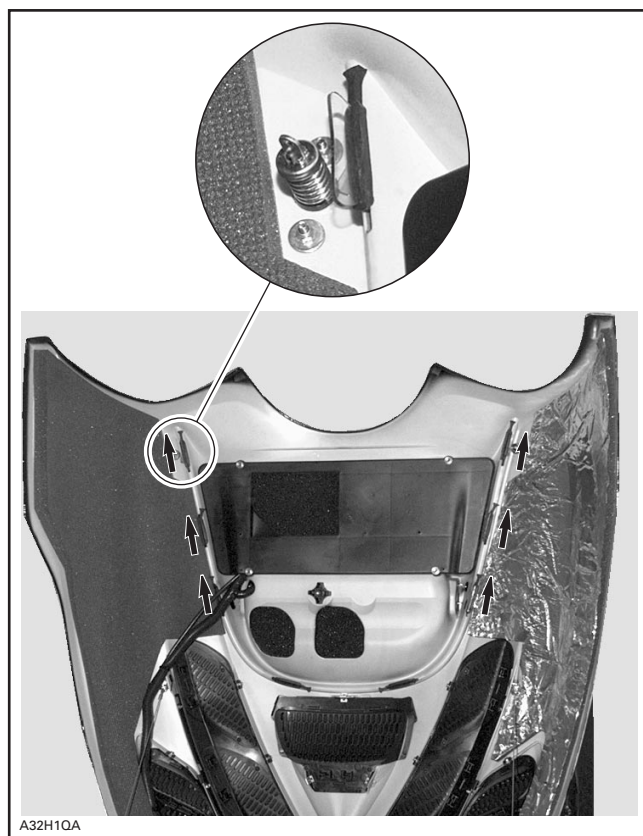


1. Headlamp moulding
2. Windshield support
3. Windshield
4. Square holes



1. Holes edges must be in contact with ribs

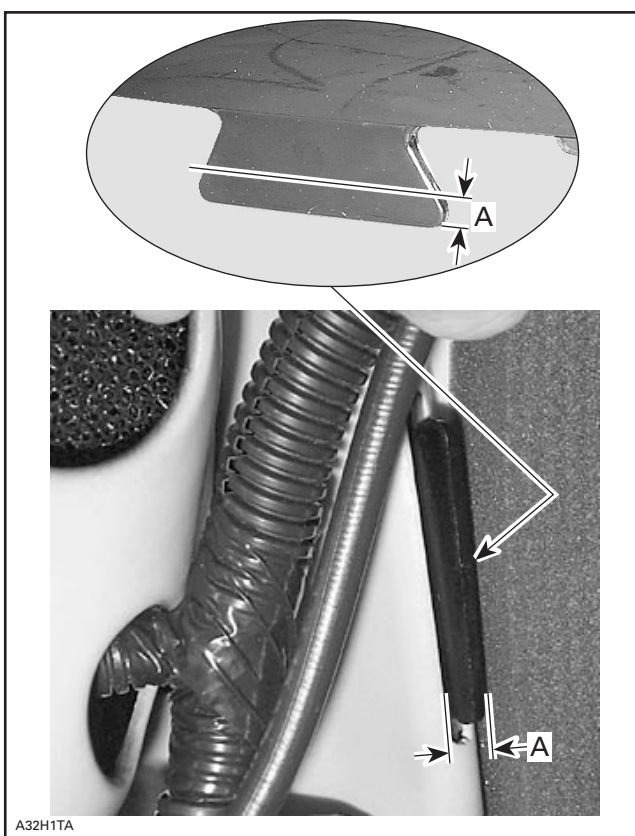
Another tip to help windshield installation is to install latches with pulling tab toward back of the hood.



PULLING TAB OF LATCH TOWARD REAR OF VEHICLE

On most of the snowmobiles, windshield fits correctly when windshield is pushed in slots toward back of the vehicle. This procedure permits to have a longer part of the black tabs of the head-lamp molding under the hood.

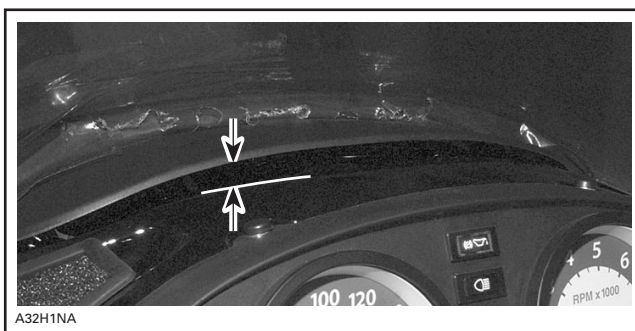
A minimum of 8 mm (5/16 in) of tab must exceed from internal hood surface. If tab is shorter than 8 mm (5/16 in) and if that measure cannot be reached, replace windshield.



MINIMUM TAB MUST EXCEED UNDER THE HOOD AT LEAST THIS LENGTH

A. 8 mm (5/16 in)

NOTE: As a clue, when windshield does not fit well, a gap could exist between hood and support.



GAP BETWEEN HOOD AND WINDSHIELD SUPPORT

Windshield Replacement

If windshield must be replaced, order the new part through normal channel and use the standard claim procedure for defective part.

DESCRIPTION	PART NUMBER	QTY
Windshield	517 302 356	1

IMPORTANT: Defective windshield is requested for warranty approval and must be returned. This procedure is valid for a new windshield only.

Please route to :

☐ Service	☐ Init.
☐ Sales	☐
☐ Parts	☐



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SERVICE
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No. **2000-12**

Date: December 22, 1999

**SUBJECTS: A) Engine Rattle
B) Molykote Coating
C) Piston Measurement
D) Piston/Cylinder Clearance
Verification
(693 type engines)**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	MX Z 700	1577/1578/1579	All
2000	Formula Deluxe 700	1549/1550/1607	All
2000	Formula Z 700	1553/1554	All
2000	Summit 700 HM	1649/1650	All
2000	Summit 700	1562/1563/1604/1605	All
2000	MX Z 700 SB	1602/1603/1621/1622	All
2000	MX Z 700 Millenium	1646/1647	All

A) ENGINE RATTLE

On the above snowmobile models, a light engine rattle may be experienced. This occurs even when snowmobile is new and **only** when running at idle.

Noise can come from the new piston/cylinder clearance or the RAVE valve. Both these noises are normal on this engine configuration.

If asked by customers, dealers should advise them of this.

B) MOLYKOTE[†] COATING

On 693 engines, pistons are coated with Molykote. This is used as break-in lubricant and is expected to disappear after normal use. When Molykote is worn off the piston wall, the piston color becomes light gray/aluminum, same as the original material color. See photos.



NEW PISTON WITH MOLYKOTE COATING

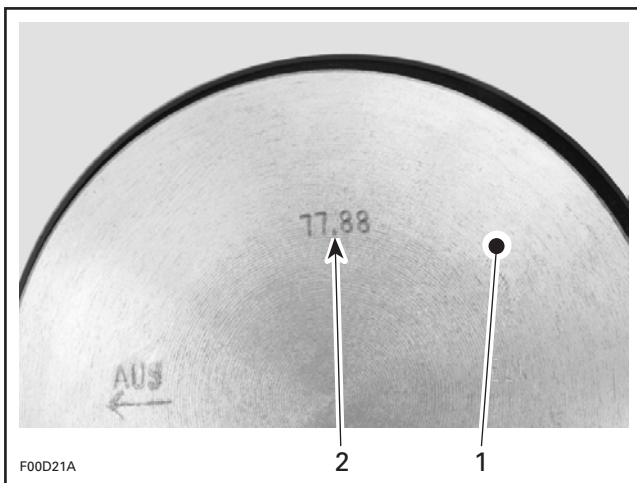
[†] Molykote is a trademark of Dow Corning Corporation



PISTON WITH MOLYKOTE COATING WORN OFF

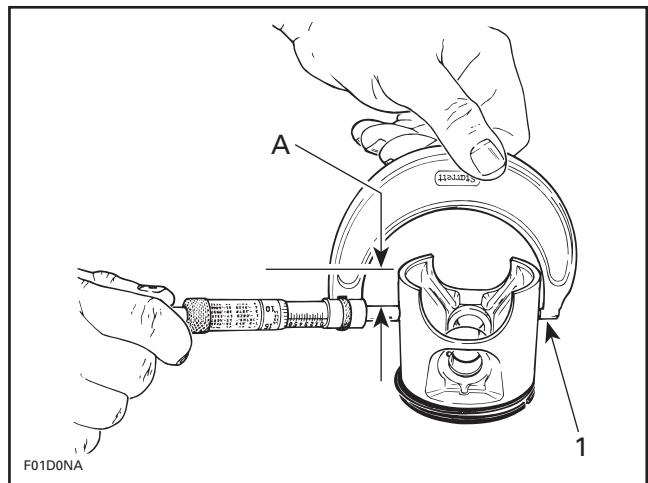
C) PISTON MEASUREMENT (REMINDER)

Verify the measurement on piston dome.



1. Piston dome
2. Piston measurement

Using a micrometer, measure piston at 15 mm (0.590 in) perpendicularly (90°) to piston pin.

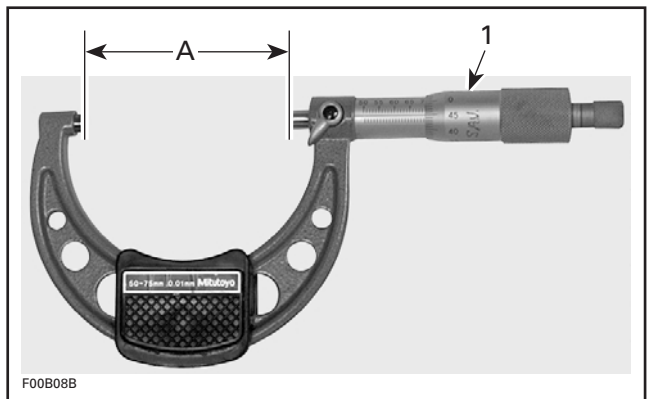


1. Measuring perpendicularly (90°) to piston pin axis
- A. 15 mm (0.590 in)

The measured dimension must be within 0.15 mm (0.006 in) of the one scribed on piston dome. If not, install a new piston.

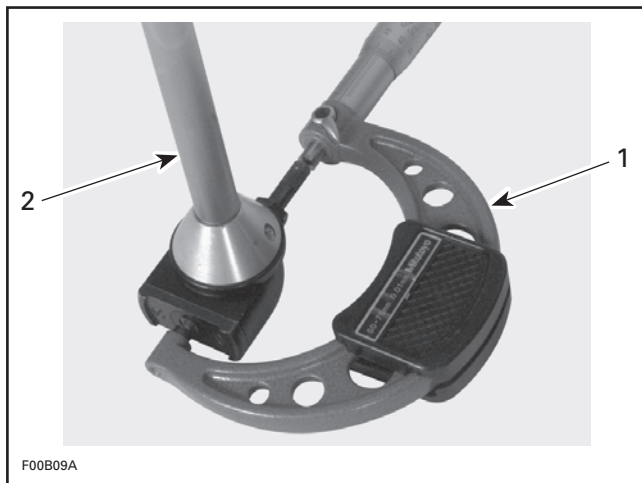
D) PISTON/CYLINDER CLEARANCE VERIFICATION (REMINDER)

Adjust and lock a micrometer to the specified value on the piston dome.



1. Micrometer set to the piston dimension
- A. Piston dimension as stamped on piston dome

With the micrometer set to the piston dimension, adjust a cylinder bore gauge to the micrometer dimension and set the indicator to 0.



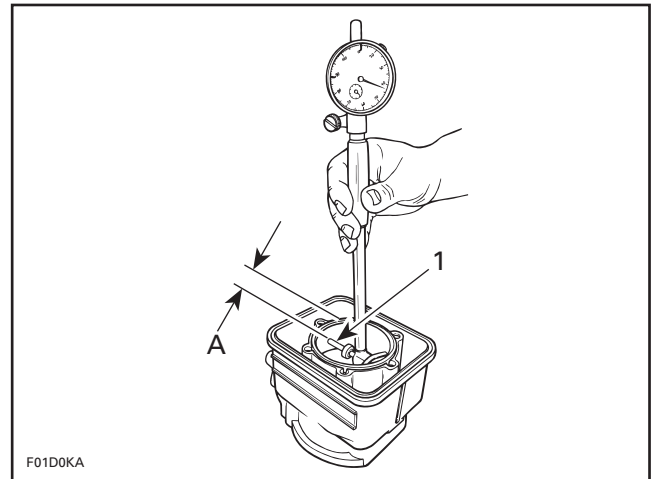
1. Use the micrometer to set the cylinder bore gauge
2. Cylinder bore gauge



1. Indicator set to 0 (zero)

IMPORTANT: Always remove cylinders from crankcase before measuring.

Position the cylinder bore gauge at 16 mm (5/8 in) below cylinder top edge.



1. Measuring perpendicularly (90°) to piston pin axis
A. 16 mm (5/8 in)

Read the measurement on the cylinder bore gauge. The result is the exact piston/cylinder wall clearance. If clearance exceeds 0.15 mm (0.006 in), replace cylinder.

NOTE: Make sure the cylinder bore gauge indicator is set exactly at the same position as the micrometer, otherwise the reading will be false.

IMPORTANT: The total piston/cylinder clearance (actual cylinder diameter minus actual piston skirt diameter) should be within 0.30 mm (0.012 in).

Please route to :

☐ Service	☐ Init.
☐ Sales	☐
☐ Parts	☐



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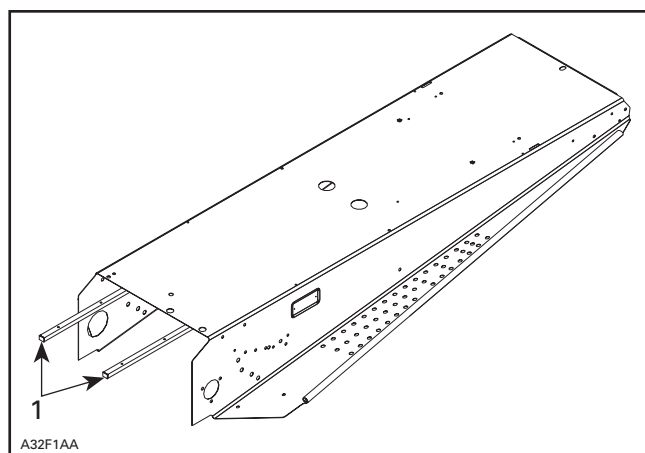
No. **2000-15**

Date: January 14, 2000

**SUBJECT: 36.83 mm (1.45 in) and
44.45 mm (1.75 in)
High Profile Tracks**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	All ZX chassis models with SC-10 II rear suspension	All ZX chassis models with SC-10 II rear suspension	All

When installing a 36.83 mm (1.45 in) or a 44.45 mm (1.75 in) track on any 2000 model year ZX chassis snowmobiles with SC-10 II rear suspension, **make sure both left and right frame protectors are removed.** Refer to following illustration.



1. Remove these 2 protectors

CAUTION: Failure to do so will cause damage to track.

NOTE: Do not use previous years track kits on 2000 model year ZX chassis vehicles. No kit is needed for 2000 model year ZX chassis vehicles with SC-10 II rear suspensions. The instruction sheets are only for the model year the kit is designed for.

Please notify all involved personnel.

Please route to :

☐ Service	☐ Init.
☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-14**

Date: January 21, 2000

**SUBJECT: Oil Requirement
for 793 Engines**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	MX Z* 800	1635	All
	Summit* H.M. 800	1581	

VERY IMPORTANT NOTICE

Above mentioned models require the use of BOMBARDIER Formula XP-S synthetic injection oil (or equivalent) **ONLY**.

CAUTION: Bombardier formulation XP-S is specially formulated and tested for use in our 793 engines. Use of any other brand of two-stroke oil may void the limited warranty. Use only BOMBARDIER Formula XP-S (or equivalent).

The BOMBARDIER Formula XP-S synthetic injection oil provides superior lubrication, reduced engine component wear and oil deposit, thus maintaining maximum-level performance and antifriction properties. This synthetic injection oil meets the latest ASTM and JASO standards by ensuring high biodegradability and low exhaust smoke.

CAUTION: Never use four-stroke petroleum or synthetic motor oil and never mix these with outboard motor oil. Do not use NMMA TC-W, TC-W2 or TC-W3 outboard motor oils or other ashless type two-stroke oil. Avoid mixing different brands of API TC oil as resulting chemical reactions may cause severe engine damage.

Ensure you notify all involved personnel accordingly.

Please route to :

☐ Service	☐ Init.
☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-13**

Date: January 14, 2000

**SUBJECT: Optional Cam for
Summit 700/700 H.M.**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	Summit* 700/700 H.M.	1562/1563/1604/1605 1629/1630/1649/1650	All

Under certain severe riding conditions, peak engine RPM may drop into the 7500 range.

Ensure TRA clutch calibration screws are adjusted to appropriate riding altitude specifications.

The correct RPM range for type 693 engines is between 7900 and 8100.

To improve backshifting response and bring the peak RPM up, an optional straight 47° cam is available.

Order part through regular channel as per following information.

DESCRIPTION	PART NUMBER	QUANTITY
47° Cam	417 126 337	1

No warranty applies.

Please notify all involved personnel.

Please route to :

	Init.
☐ Service	☐
☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-16**

Date: January 14, 2000

SUBJECT: New Tools Mandatory and Recommended

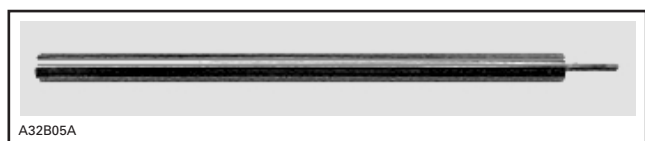
YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1999/2000	Refer to Application stated below	Refer to Application stated below	Refer to Application stated below

MANDATORY TOOLS

The following tools are mandatory and **will be auto shipped** to all dealers.

Choke Plunger Tool (P/N 529 035 602)

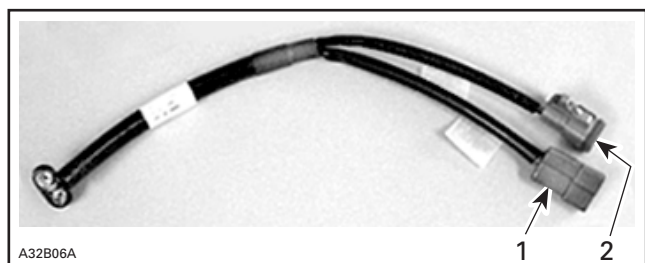
Application: All ZX Chassis Models with 38 mm or 40 mm Carburetors



This tool is used to properly adjust the height of the choke plunger on all ZX chassis vehicles. Refer to *Service Bulletin 97-2* for proper procedure to use this tool.

9-Volt Programming Adapter (P/N 529 035 675)

Application: All 1999/2000 ZX Chassis Models and all 2000 CK3 Chassis Models (except Grand Touring* SE)



1. CK3 models connector
2. ZX models connector

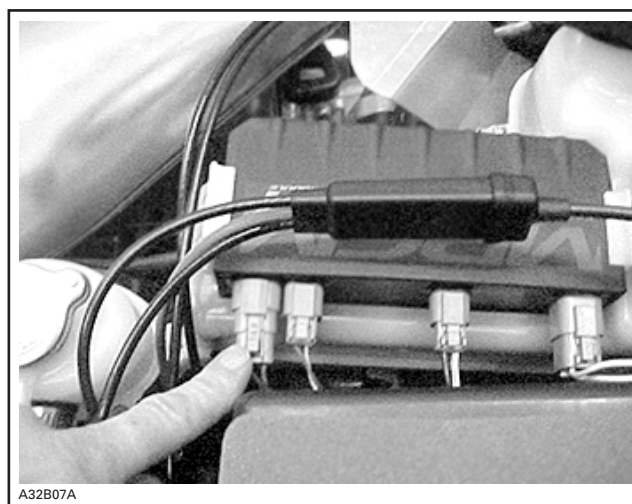
The use of this tool is demonstrated in the 2000 model year Ski-Doo* Update video. It can be used to power up the MPEM for all programming functions including lanyards and ignition timing without having to run the vehicle. This will reduce the chance of programming errors due to engine misfiring or stopping during transfer of information between the programmer and the MPEM.

Refer to *MPEM programmer Guide* (P/N 484 300 139).

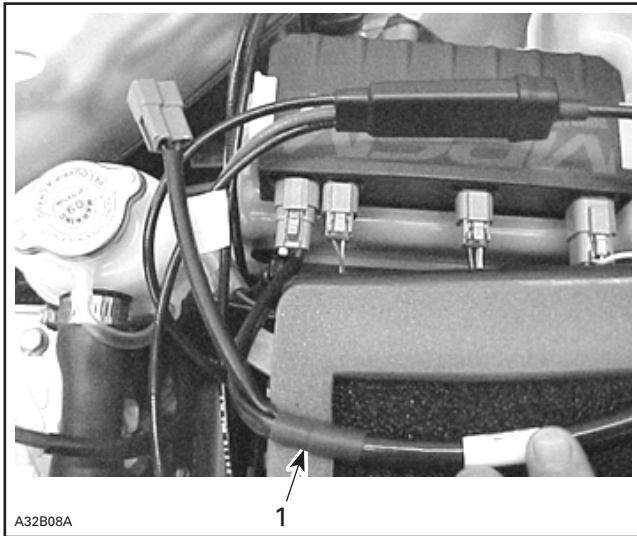
CAUTION: Use only 9 volt batteries with this tool. Battery voltage higher than 9 volts **will cause damage** to the MPEM.

How to Use it

Locate the appropriate stator power connector on the MPEM as shown in next photo.



Disconnect stator power connector and connect proper connector from the 9-volt adapter. Refer to following photo.



1. Tool

With a 9 volt battery connected to the tool, proceed programming as usual.

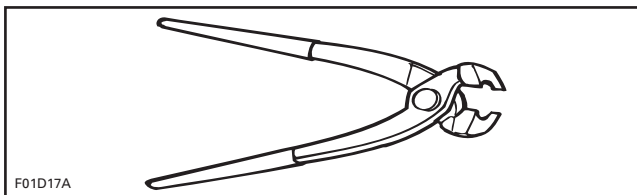
When finished programming, disconnect tool and reinsert stator power connector to the MPEM.

RECOMMENDED TOOLS

The following tools are recommended and can be ordered, if desired, through regular channel except for terminal remover supplied by Snap-On†.

Oetiker Pliers (P/N 295 000 070)

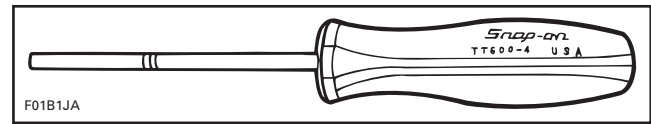
Application: All 1999/2000 Models with Oetiker Clamps on Fuel Lines



This tool is used to remove and install oetiker clamps used on fuel lines.

Terminal Remover (Snap-On P/N TT600-4)

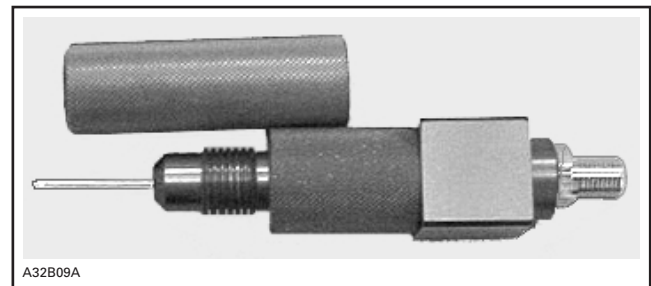
Application: All models with Packard connectors



This tool is used to remove Packard type terminals.

HPG Needle Valve (P/N 529 035 614)

Application: All 2000 Models with HPG T/A Shock Absorbers



This tool is used to recharge HPG T/A shock absorbers.

† Registered Trademark of Snap-On Tool Corporation.

Please route to :

	Init.
☐ Service	☐
☐ Sales	☐
☐ Parts	☐



SNOWMOBILES



SERVICE
Bulletin

No. **2000-17**

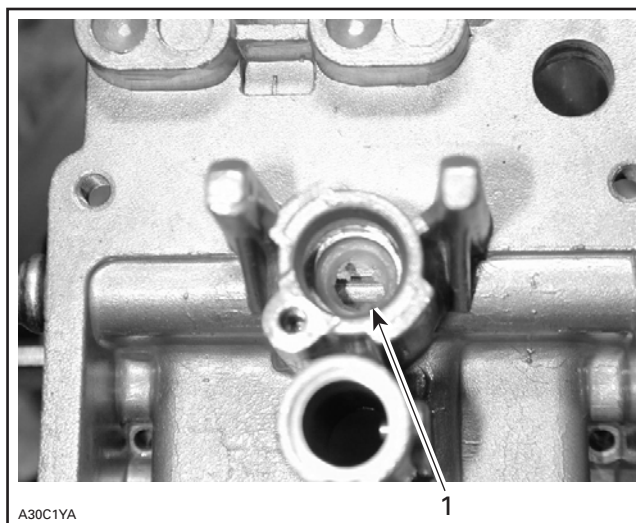
Date: February 14, 2000

**SUBJECT: A) White Deposits in Carburetors
B) Mini Z Skis Mounting
C) Shop Manual Correction**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER	REF.
2000	All CK3 platform vehicles with TM carburetors	All	All	A
	Mini* Z	1592	From 1592 000001 to 1592 002161	B
	Shop Manual, Volume 3	Shop Manual, Volume 3	Shop Manual, Volume 3	C

A) WHITE DEPOSITS IN CARBURETORS

Whenever a piston seizure occurs or when you run out of gas while riding, inspect gas filter at carburetor fuel inlet (open float bowl), there could be a white jelly like substance obstructing the passage.



1. Inlet passage showing white deposit

Clean carburetor one at a time to avoid mixing components.

Remove float.

NOTE: Always lean float lever support on solid support when float lever pin is removed or installed.

CAUTION: After opening float bowl ensure float lever support is handled with care or it may break.

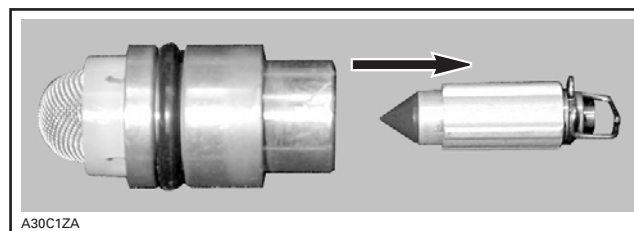
Remove needle and seat.

Wipe off white deposits in carburetor hole.

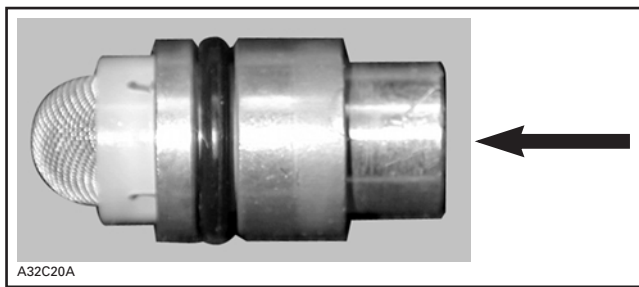
CAUTION: Take care while working on carburetors not to use tools that could scratch the aluminum casting.

Blow air through carburetor fuel inlet to ensure removal of small residues.

Clean fuel filter by blowing air.



REMOVE NEEDLE AND SEAT



BLOW AIR

Ensure white substance has been completely cleaned from fuel hoses if necessary.

Verify float height using tool (P/N 529 035 520). Refer to appropriate section in *Shop Manual* for proper specification and procedure.

B) MINI* Z SKIS MOUNTING

When performing predelivery inspection on Mini* Z snowmobiles on which serial number is within the above mentioned range, please install 2 flat washers (P/N 234 001 410) to mount the skis. These flat washers are to be installed on the nut side, one per ski.

NOTE: When ordering this part number, dealer will receive a quantity of 10 flat washers.

C) SHOP MANUAL CORRECTION

Please find attached a corrected page 10-03-4 of the *2000 Shop Manual, Volume 3*, (P/N 484 200 015), with corrections highlighted with arrows, pertaining to the Summit* 700 H.M.

VEHICLE MODEL			SUMMIT 700	SUMMIT 700 H.M.
ENGINE TYPE			693	693
	Chain Drive Ratio		22/43	21/43
	Chain	Pitch in	3/8	3/8
		Type/Links Qty/Plates Qty	Silent 74/13	Silent 74/13
	Drive Pulley	Type of Drive Pulley	TRA	TRA
		Ramp Identification and Roller Pin Type	293X ⑥	293X ⑥
		Calibration Screw Position or Calibration Disc Quantity	4	4
		Spring Color	Violet/Yellow	Violet/Yellow
		Spring Length ± 1.5 mm (± .060 in)	157.9 (6.22)	157.9 (6.22)
		Clutch Engagement ± 200 RPM	4100	4100
	Driven Pulley	Type	Formula	Formula
		Driven Pulley Spring Preload ± 0.7 kg (± 1.5 lb)	8.0 (17.6)	8.0 (17.6)
		Cam Angle Degree	50/47	50/47
	Pulley Distance	Z ± 0.5 mm (± .020 in)	16.5 (.650)	16.5 (.650)
	Offset	X ± 0.4 mm (± 1/64 in)	35.5 (1.398)	35.5 (1.398)
		Y – X MIN. – MAX. mm (in)	1.0 – 2.0 (.039 – .079)	1.0 – 2.0 (.039 – .079)
	Drive Belt Part Number (P/N)		417 300 127	417 300 127
	Drive Belt Width (new) ① mm (in)		36.35 (1.431)	36.35 (1.431)
	Drive Belt Adjustment	Deflection ± 5 mm (± 13/64 in)	32 (1.260)	32 (1.260)
		Force ② kg (lbf)	11.3 (25)	11.3 (25)
	Track	Width cm (in)	38.1 (15.0)	38.1 (15.0)
		Length cm (in)	345.5 (136)	383.6 (151)
		Profile Height mm (in)	50.8 (2.0)	50.8 (2.0)
		Adjustment	30 – 35 (1-3/16 – 1-3/8)	30 – 35 (1-3/16 – 1-3/8)
			Force ③ kg (lbf)	7.3 (16)
	Suspension Type	Track	SC-10 II	SC-10 II
		Ski	ADSA	ADSA
	Length cm (in)		293.9 (115.7)	315.3 (124.1)
	Width cm (in)		107.3 (42.2)	121.3 (47.7)
	Height cm (in)		113.0 (44.5)	100.0 (39.37)
	Ski Stance cm (in)		94.0 (37)	108 (42.5)
	Mass (dry) kg (lb)		221 (487)	228 (502)
	Ground Contact Area cm² (in²)		7356.7 (1140.3)	8271.1 (1282)
	Ground Contact Pressure kPa (PSI)		2.95 (.428)	2.70 (.392)
	Frame Material		Aluminum	Aluminum
	Bottom Pan Material		Impact Copolymer	Impact Copolymer
	Hood Material		RRIM Polyurethane	RRIM Polyurethane
	Battery V/A•h		N.A.	N.A.
	Headlight W		H4 60/55	H4 60/55
	Taillight and Stoplight W		8/27	8/27
	Tachometer and Speedometer Bulbs W		3	3
	Fuel and Temperature Gauge Bulbs W		N.A.	N.A.
	Fuse	Starter Solenoid A	N.A.	N.A.
		Fuel Level Sensor A	N.A.	N.A.
	Fuel Tank L (U.S. gal)		37.3 (9.9)	37.3 (9.9)
	Chaincase/Gearbox mL (U.S. oz)		250 (8.5)	250 (8.5)
	Cooling System ④ L (U.S. oz)		4.0 (135.3)	4.0 (135.3)
	Injection Oil Reservoir L (U.S. oz)		3.5 (118.4)	3.5 (118.4)

Please route to :

☐ Service	☐ Init.
☐ Sales	☐
☐ Parts	☐



No. **2000-18**

Date: February 25, 2000

SUBJECT: Ski-Doo Paint Codes

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	All	All	All

This bulletin lists B.A.S.F. R-M and PPG paint codes corresponding to snowmobile hood, frame, cylinder head/cover and suspension component colors.

It is divided in 2 sections:

- 2000 Ski-Doo paint codes.
 - Corresponding paint codes: List all Ski-Doo equivalents paint codes with B.A.S.F., P.P.G. and spray can.
- Refer to *Service bulletin 99-10, Revision 1*, for previous model year snowmobiles.

2000 SKI-DOO PAINT CODES

DESCRIPTION	MODEL NUMBER	HOOD PAINT CODE	FRAME PAINT CODE	CYLINDER HEAD/COVER PAINTCODE	SUSPENSION COMPONENT PAINT CODE		
					WHEEL	SWING ARM	SPRING
Summit 700 H.M.	1649/1650	B-190	AL	B205R	B-190	M-529	B-190
MX z X 440 LC	1568/1569 1570	B-190	AL	B205R	B-160	M-529	B-160
Grand Touring 600	1488/1489 1490	B-160	B-160	B205R	B-160	B-160	B-160
Formula Deluxe 700	1549/1550 1607	B-210	AL	B205R	B-160	M-529	B-160
Formula Deluxe 600	1547/1548	B-210	AL	B205R	B-160	M-529	B-160
Formula Z 700	1553/1554	B-192	AL	B205R	B-160 B-190	M-529	B-190
Formula Z 600	1651/1652	B-192	AL	B205R	B-160 B-190	M-529	B-190
Grand Touring SE Millennium	1648	B-160	B-160	B205R	Chrome	Chrome	B-211
Grand Touring SE	1493	B-196	B-199	B205R	B-196	B-196	B-196
Grand Touring 700	1641	B-160	B-160	B205R	B-211	B-160	B-211
Skandic WT	1598/1599	B-188	B-160	N.A.	B-211	N.A.	N.A.
Skandic WT LC	1596/1597	B-188	B-160	B205R	B-211	N.A.	N.A.
Skandic SWT	1600/1601	B-188	B-160	N.A.	B-211	N.A.	N.A.
MX Z 700 SB Millennium	1646/1647	B-160	AL	B205R	Chrome	M-529	B-211
MX Z 700	1577/1578 1579	B-190	AL	B205R	B-190	M-529	B-190
MX Z 700 SB	1602/1603	B-190	AL	B205R	B-190	M-529	B-190
MX Z 700 SB (BLACK)	1621/1622	B-160	AL	B205R	B-190	M-529	B-190
MX Z 600	1574/1575 1576	B-190	AL	B205R	B-160 B-190	M-529	B-190
MX Z 600 SB	1623/1624	B-190	AL	B205R	B-160 B-190	M-529	B-190
MX Z 600 SB (BLACK)	1625/1626	B-160	AL	B205R	B-160 B-190	M-529	B-190
MX Z 500	1571/1572 1573	B-190	AL	B205R	B-160 B-190	M-529	B-190
MX Z 500 SB (BLACK)	1627/1628	B-160	AL	B205R	B-160 B-190	M-529	B-190
Summit 600	1559/1560 1561	B-210	AL	B205R	B-160 B-190	M-529	B-190

2000 SKI-DOO PAINT CODES (continued)

DESCRIPTION	MODEL NUMBER	HOOD PAINT CODE	FRAME PAINT CODE	CYLINDER HEAD/COVER PAINTCODE	SUSPENSION COMPONENT PAINT CODE		
					WHEEL	SWING ARM	SPRING
Summit 600 SB	1631/1632	B-190	AL	B205R	B-160 B-190	M-529	B-190
Summit 700	1562/1563	B-190	AL	B205R	B-160 B-190	M-529	B-190
Summit 700 SB Millennium	1604/1605	B-160	AL	B205R	Chrome	Chrome	B-211
Mach Z	1585/1586	B-160	B-160	B205R	B-190	B-190	B-190
Mach Z R	1587/1588	B-160	B-160	B205R	B-190	B-190	B-190
Mach Z R Millennium	1644/1645	B-160	B-160	B205R	Chrome	Chrome	B-211
Mach 1 R	1617/1618	B-160	B-160	B205R	B-176	B-176	B-176
Formula III 800	1619/1620	B-192	AL	B205R	B-190	M-529	B-190
Formula III 700 R	1590/1591	B-192	AL	B205R	B-190	M-529	B-190
Mini Z	1592	B-190	B-190	N.A.	N.A. B-190	B-190	N.A.
MX Z 440	1565/1566	B-190	AL	N.A.	B-160	M-529	B-160
Formula S	1470/1471	B-192	AL	N.A.	B-160	M-529	B-190
Formula Deluxe 380	1495/1496	B-210	AL	N.A.	B-160	M-529	B-160
Formula Deluxe 500	1497/1498	B-210	AL	N.A.	B-160	M-529	B-160
Touring 500 LC	1485/1486 1487	B-160	B-160	B205R	B-160	B-160	B-160
Formula Deluxe 500 LC	1544/1545	B-210	AL	B205R	B-160	M-529	B-160
Formula 500 LC	1551/1552	B-192	AL	B205R	B-160	M-529	B-190
Touring SLE	1472/1473 1474	B-179	AL	N.A.	B-160	B-160	B-160
Touring LE	1475/1476	B-179	AL	N.A.	B-160	B-160	B-160
Touring E	1477/1478 1479	B-179	AL	N.A.	B-160	B-160	B-160
Skandic 500	1480/1481	B-188	AL	N.A.	B-160	B-160	B-160
Skandic 380	1483/1484	B-188	AL	N.A.	B-160	B-160	B-160
Tundra R	3276	B-152	B-160	N.A.	B-160	N.A.	N.A.

AL: Aluminum (no paint).

N.A.: Not Applicable.

CORRESPONDING PAINT CODES

BOMBARDIER		B.A.S.F. R-M	PPG	SPRAY CAN
B101	CAN-AM RED	N.A.	DCC 69917	N.A.
B102	SKI-DOO YELLOW 80	RM 79044	DCC 88208	N.A.
B103	PERFORMANCE ORANGE	RM 79046	DCC 69918	N.A.
B104	ICE ORANGE	RM 87764	DCC 69919	N.A.
B105	MIDNIGHT BLUE	RM 85003	DCC 17876	413 403 300
B106	EBONY BLACK	RM 84976	DCC 9553 DBU 9568	N.A.
B108	M-S ORANGE 81	RM 85363	DCC 69920	N.A.
B109	SAFARI RED	RM 84977 ①	DCC 78185 ②	N.A.
B111	SILVER	N.A.	DBU 38261	413 406 000
B114	POLAR WHITE	RM 86001	DCC 98197	N.A.
B121	SKI-DOO YELLOW 84	RM 84978	DCC 88209	413 407 800
B122	SPECIAL WHITE	N.A.	DCC 98198	N.A.
B123	SILVER GRAY	RM 84979	DBU 38260 ②	413 404 000
B136	SUNSET ORANGE	RM 84980	DCC 69921	N.A.
B137	BLUE STRATOSPHERE	RM 84981	DBU 17877	N.A.
B142	MAPLE RED	RM 84982	DBU 59965 ②	N.A.
B144	GUNMETAL GRAY	RM 84983	DBU 38257	413 409 200
B145	METALLIC RED	RM 84066 ①	DBU 78186 ①	413 408 400
B146	METALLIC BLACK	RM 84984	DBC 95065 DBU 9552 ②	413 408 500
B147	DARK GRAY	RM 84985	DBU 38258	N.A.
B148	SAND GRAY	RM 84986	DBU 38259	413 409 300
B151	WILD BERRIES	RM 84987	DBU 78187 ① ②	N.A.
B152C B152 B152F	SUNFLOWER YELLOW (HOOD) SUNFLOWER YELLOW (WHEEL) SUNFLOWER YELLOW (FRAME)	RM 84988-0 RM 84988-7 DFM 84988	DCC 88255 89901	413 408 700
B153	SNOW WHITE	RM 80470	DBU 98199	N.A.
B154	PEARL WHITE	N.A.	DBU 98200 ① ②	413 408 800
B155	MAGENTA	RM 85000	DBC - BC 59817	N.A.
B156	MEDITERRANEAN BLUE	RM 79810	DBU 17878 ①	N.A.
B158	MULBERRY	RM 79888	DBU 59966	N.A.
B160	DEEP BLACK	RM 85366	DCC 95066 DBC 9554	413 409 100
B161	QUARTZ PINK	RM 85176 ①	DBU 78188 ① ②	N.A.
B162	PEACOCK BLUE	N.A.	DBU 49688 DBC 190727 ① ②	413 410 200
B163	PEARL BLUE	RM 85017 ①	DBC 19519 BC 19519	413 408 900
B164	AQUA BLUE	Refer to paint codes on last page		N.A.
B165	VIOLET	88162		413 409 000
B166	FLAME RED	Refer to paint codes on last page		N.A.
B167	BAVARIAN BLUE	89500	DBC - BC 190086	N.A.

CORRESPONDING PAINT CODES (continued)

BOMBARDIER		B.A.S.F. R-M	PPG	SPRAY CAN
B168	PLUM	RM 80348	BC - DBC 59816	N.A.
B169	FOREST GREEN	RM 79833-4 ③	DBU - DBC 49591 - DBU 49540	413 409 600
B170	METALLIC QUARTZ	RM 80262 ①	DBU 36590 - 39002	N.A.
B172	TEAL BLUE	RM 87929 ①	DBU 18910 DCC 190728	413 410 300
B173	RASBERRY	RM 87365 ①	SICO: ID 3289	N.A.
B174	METALLIC FIREFLY GREEN	RM 80369-46 ③	DBU 48029	N.A.
B175	METALLIC ROYAL VIOLET	RM 87151	DBC - DBU 19532	413 410 400
B175A	NON-METALLIC ROYAL VIOLET	RM 87930-9 ③	DCC - DG 59813	413 410 400
B176	VIPER RED	DFM 87960	DCC - DG 74790	N.A.
B176 R	VIPER RED	87960-5	DCC - DG 74790	413 413 600
B177	METALLIC OCEAN GREEN (HOOD)	RM 88482	DBU - DBC 48024	N.A.
	METALLIC OCEAN GREEN (FRAME)	RM 88481	DBU - DBC 48025 DBU 49537	N.A.
B177A	NON-METALLIC OCEAN GREEN	RM 88480	DBU 49536	413 410 900
B178	NEON GREEN	RM 87961	DBU 49539	N.A.
B179	SAPHIR BLUE	RM 93031	DBU - DBC 19821	N.A.
B181	ANTHRACITE	RM 94817	DBC 39072	N.A.
B182	JAY BLUE	RM 79227	DCC - DG 19818	N.A.
B183	AFRICAN VIOLET	FM 88792	DCC - DG 59815	413 413 500
B184	VELVET BLUE	93032	DCC - DG 190085	413 413 400
B185	FIR GREEN	94816	DCC - DG 48020	N.A.
B186	FRENCH BLUE	94601	DCC - DG 19817	N.A.
B188	PLATINUM (HOOD)	89848	DBU 36585	N.A.
B188 W	PLATINUM (HOOD)	89833	DBU 36586	N.A.
B189	PINE GREEN	89867	DBU 48710	N.A.
B190	YELLOW 2000 (HOOD)	89849F	DBU 88272	413 413 000
B-192	PURPLE PEARL METAL	94812	DBC 59829	N.A.
B-193	COPPER MOUNTAIN METALLIC	Refer to paint codes on last page		
B-195	GOLDEN WHEAT METALLIC	94809	N.A.	N.A.
B-196	GRAND CANYON RED METALLIC	94808	DBC 74910	N.A.
B-197	SOLID COPPER	Refer to paint codes on last page		
B-198	SOLID PURPLE	94806	DCC 59830	413 413 608
B-199	SOLID CANYON RED	94805	DCC 74906	413 413 609
B-203	RUBY RED	94802	DBC 74911	N.A.
B-205 R	DIAMOND	Refer to paint codes on last page		
B-210	PEARL CLOUD	94879	DBC 36620	N.A.
B-211	FULL MOON	94880	DBC 37415	N.A.
M-529	SILVER REFLECTION	94255	DBC 36598	N.A.

① A white undercoat must be applied: B.A.S.F. = 54-M25, R-M = BC 190 or 285-100, PPG = DMD 663.

② Approximate match.

③ 1996 models.

N.A.: Not Available.

NEW SKI-DOO PAINT CODE

B-164	AQUA BLUE	①
RM		
BC	50 =	41.7
BC	500 =	107.8
BC	410 =	155.8
BC	190 =	274.7

B-166	FLAME RED	①
RM		
BC	50 =	41.7
BC	710 =	146.4
BC	830 =	148.8
BC	815 =	174.3

B-193	COPPER MOUNTAIN METALLIC	①
BASF		
	55M2 =	166.2
	55A335 =	663.8
	55M801 =	842.6
	55A372 =	1101.0

B-197	SOLID COPPER	①
BASF		
	55A372 =	350.0
	55A390 =	396.0
	55A257 =	416.0
	55A143 =	436.0

B205R	DIAMOND	①
BASF		
	M2 =	157.4
	M99/12 =	593.4
	M99/10 =	807.9
	A125 =	820.8
	A926 =	833.8
	A098 =	845.9
	A5563 =	857.2
	M1 =	865.0

① Total mixed quantity does not equal 1 liter.

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SNOWMOBILES



**SERVICE
Bulletin**

No. **2000-19**

Date: February 25, 2000

**SUBJECT: A) Antifreeze Leak on Optional
Chromium Head
B) Tuned Pipe Shell Cracking
C) Tool Part Number
Correction
D) 593 and 693 Engines
Cylinder Bolts Torque**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER	REFERENCE
2000	All CK3 Platform Units 800 models All ZX Platform Units 600/700 models	All	All	A
2000	MX Z 500/600/700 Formula Deluxe 600/700 Formula Z 600/700 Summit 600/700 Grand Touring 600/700	1488/1489/1490/1547/1548/ 1549/1550/1553/1554/1559/ 1560/1561/1562/1563/1571/ 1572/1573/1574/1575/1576/ 1577/1578/1579/1602/1603/ 1604/1605/1607/1621/1622/ 1623/1624/1625/1626/1631/ 1632/1641/1646/1647/1649/ 1650/1651/1652	All	B
2000	Shop Manual Volume 3	Shop Manual Volume 3	Shop Manual Volume 3	C
All	All equipped with 593/693 Engines	All	All	D

A) ANTIFREEZE LEAK UNDERNEATH CHROMIUM HEAD BOLTS

Affected chromium heads part number:

HEAD APPLICATION	PART NUMBER
3 Cylinder Engines (809)	512 059 207
2 Cylinder Engines (593-693)	512 059 213

In order to correct this condition, head bolts need to be removed and reinstalled, adding a copper flat washer between bolt and chromium head.

Parts Required

DESCRIPTION	PART NUMBER	QTY	FOR
Flat Washer	504 082 900*	18	3 cyl.
		12	2 cyl.

* When ordering this P/N, dealer receives 5 flat washers.

Order required parts through regular channel.

NOTE: Please correct the *Options Sheets* according to the following:

All 3 cylinder 700 engine models do not qualify for chromium head (P/N 512 059 207) as stated in those sheets.

Starting February 3rd 2000, all chromium head orders include copper flat washers.

 **WARNING**

Torque wrench tightening specifications must strictly be adhered to. Locking devices (ex.: locking tabs, elastic stop nuts, self-locking fasteners, etc.) must be installed or replaced with new ones where specified. If the efficiency of a locking device is impaired, it must be renewed.

CAUTION: Follow torque sequence as well as torque specifications found in appropriate *Shop Manuals*.

B) TUNED PIPE SHELL CRACKING

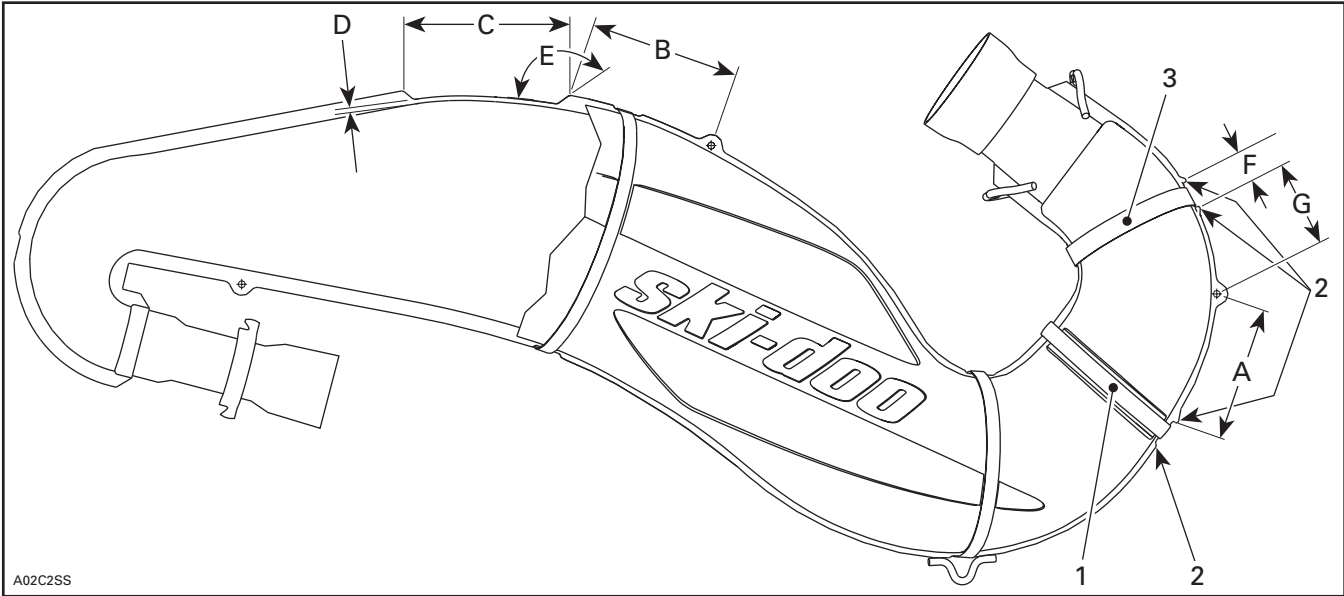
In order to correct this condition, a collar type clamp has to be installed. To avoid collar movement, **welding spots must be performed on tuned pipe**, for new and existing collar clamps. Removal and reinstallation of existing collar clamp is required to perform spot welding.

CAUTION: Spot welding without removing existing collar clamp will cause damage to collar clamp.

Part Required

DESCRIPTION	PART NUMBER	QTY
Collar Clamp	514 052 983	1

Order part through regular channel.
Furthermore, to give more space between anti-freeze container and tuned pipe edge, section of tuned pipe edge has to be grinded off and edge rewelded. Refer to following illustration.



A02C2SS

1. New collar clamp

2. Spot weld

3. Existing clamp

A. 90 mm (3-1/2 in)

B. 100 mm (3-29/32 in)

C. 110 mm (4-19/64 in)

D. 3 mm (1/8 in)

E. 135°

F. 15 mm (19/32 in) — Distance between spot welding

G. 60 mm (2-3/8 in)

C) TOOL PART NUMBER CORRECTION

Please correct the *2000 Shop Manual, Volume 3*, page 01-01-23 (P/N 484 200 015) as per following note:

Adjustment wrench part number reads 529 635 603, should read 529 035 603.

Please advise all involved personnel accordingly.

D) CYLINDER BOLTS TORQUE

Please update any or all publications according to the following information.

M8 engine cylinder bolts torque specification is **29 N•m (21 lbf•ft) for the 593 engine.**

M10 engine cylinder bolts torque specification is **40 N•m (30 lbf•ft) for the 693 die cast engine.**

M8 engine cylinder bolts torque specification is **29 N•m (21 lbf•ft) for the 693 sand cast engine.**

For 693 engines refer to following table.

MODEL	ENGINE	BOLT SIZE	TORQUE
All 1999	693	M8	29 N•m (21 lbf•ft)
2000 Formula Z (1553/1554) Summit 700 (1562)	693	M8	29 N•m (21 lbf•ft)
All 2000 except Formula Z (1553/1554) Summit 700 (1562)	693	M10	40 N•m (30 lbf•ft)

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SNOWMOBILES



SERVICE
Bulletin

No. **2000-20**

Date: February 25, 2000

SUBJECT: Spark Plug Electrode Gap

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000 and previous years	All	All	All

IMPORTANT NOTICE

Spark plug electrode gap must be adjusted prior to installation on vehicle or selling to customers.

Prior to installing new spark plugs, make sure to properly adjust spark plug electrode gap using a proper gauge as per following photos. **Correct specification for all engine types is 0.45 mm $\pm$ 0.05 mm (0.018 $\pm$ 0.002 in).**

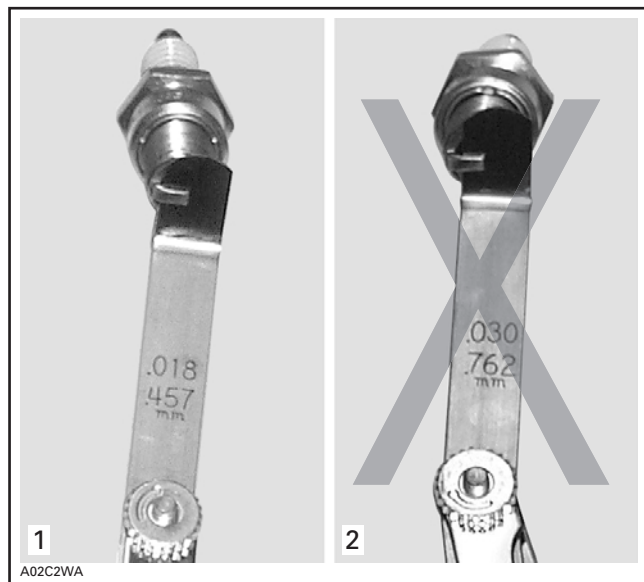


A. Gap specification is 0.45 mm $\pm$ 0.05 mm (0.018 $\pm$ 0.002 in)

NOTE: New spark plugs are gapped to a standard specification. This gap will not match the specification of the vehicles. Be certain to readjust the gap before selling or installing new spark plugs. Too large of a gap will lead to weak spark and/or spark plugs fouling. **The gap is particularly important for 3 cylinder engines.**

NOTE: For all Grand Touring SE, **BR8ES** spark plug (P/N 278 000 609) can be used to improve cold start and spark plug life.

Following photos show right and wrong adjustments.



1. Correct gap
2. Setting of a new spark plug

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SNOWMOBILES



SERVICE
Bulletin

No. **2000-21**

Date: March 10, 2000

SUBJECT: In-Tank Fuel Line Swelling

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	CK3 ZX S 2000 fan cooled	All	All

Swelling of fuel line inside fuel tank may cause fuel filter to fall off.

This condition may allow contaminants into the carburetor.

These contaminants could obstruct a fuel passage and cause a lack of fuel resulting in a lean seizure.

In order to avoid this condition, hose clamps may be added as per procedure described below.

Parts Information

DESCRIPTION	PART NUMBER	QTY	MODEL
11.5 mm (29/64 in) Hose clamp	513 033 010	2	CK3 and ZX
8.5 mm (21/64 in) Hose clamp	513 033 011	1	S 2000 (fan)

Hose Clamp Installation Procedure

All Models

Safely drain fuel from fuel tank.

⚠ WARNING

Ensure fuel is drained into a suitable container. Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle.

CK3 and ZX Models

Remove fuel line and secure back in place, in fuel tank, using appropriate hose clamps, (P/N 513 033 010), one at each end.

S 2000 Fan Cooled Models

Secure fuel line at filter side only using appropriate hose clamp, (P/N 513 033 011).

All Models

Pour fuel back into fuel tank.

⚠ WARNING

Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle.

Please route to :

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☐ Service	☐
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SNOWMOBILES



SERVICE
Bulletin

No. **2000-22**

Date: May 5, 2000

SUBJECT: Storage Procedures

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	All	All	All

Proper snowmobile storage is a necessity during the summer months or when a vehicle is not being used for more than one month.

NOTE: Refer to storage column from Lubrication and Maintenance Chart jointly with the present storage procedure Bulletin in order to cover each and every aspect of the snowmobile storage procedure.

GENERAL INSPECTION

Visually inspect the entire vehicle. Open the hood, and remove any loose objects or accumulation of dirt inside bottom pan and under engine.

NOTE: To facilitate the inspection and ensure adequate lubrication of components, it is recommended to clean the entire vehicle.

Any parts found to be worn, broken or damaged, while performing these storage procedures, should be replaced.

LUBRICATION

WARNING

Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

Steering and Front Suspension

Lubricate the steering mechanism. Inspect all components for tightness.

Apply BOMBARDIER LUBE (P/N 293 600 016) on all ball joints.

Apply synthetic grease (P/N 413 711 500) on stabilizer sliders, if so equipped. Lubricate also front suspension posts and pivot arms at grease fittings.

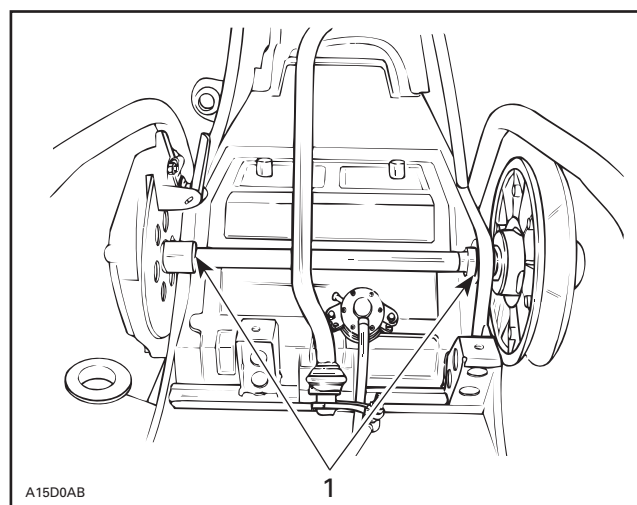
WARNING

Do not lubricate the throttle and/or brake cables and housings. Avoid getting oil on the brake pads.

Countershaft and Brake System

All Models without O-Rings Sealing Brake Disk

For proper operation, if so equipped, brake disc and driven pulley must slide freely on countershaft. Lubricate sparingly using anti-seize lubricant (P/N 293 800 023).



TYPICAL
1. Lubricate here

CAUTION: Do not lubricate excessively as lubricant could contact and soil brake pads and/or drive belt.

Rear Suspension and Drive Axle

Lubricate front and rear arms at grease fittings using synthetic grease (P/N 413 711 500).

Lubricate end housing bearing on drive axle with synthetic grease (P/N 413 711 500).

Lubricate remaining recommended lubrication points. Refer to the appropriate *2000 Shop Manual*, section 02.

Coat all electrical connections and switches with silicone dielectric grease (P/N 293 550 004). If unavailable, use petroleum jelly.

NOTE: While performing front and rear suspension lubrication, check for condition and adjustment of mechanical systems such as suspension and stopper strap condition, skis condition, steering and ski leg camber, handlebar bolts tightening, brake condition and fluid level, etc.

TRACK

Lift rear of vehicle until track is cleared of the ground and support with a brace or trestle. Do not release track tension.

FUEL SYSTEM

With the new fuel additives, it is critical to use the fuel stabilizer (Sta-Bil®) (P/N 413 408 600) (250 mL) to prevent fuel deterioration, gum formation and fuel system components corrosion. Follow instructions on product container.

Pour fuel stabilizer in fuel tank prior to starting engine for internal parts lubrication so that stabilizer flows everywhere in fuel system.

After engine starting, use primer several times so that stabilizer flows inside it.

Do not drain fuel system.

ENGINE

Check for rewind starter and starting rope condition.

Make sure engine mount nut and engine head nut are torqued to the specified value. Check also for condition of seals.

Engine internal parts must be lubricated to protect them from possible rust formation during the storage period.

To perform the storage procedures proceed as follows:

- Start the engine and allow it to run at idle speed until the engine reaches its operating temperature.

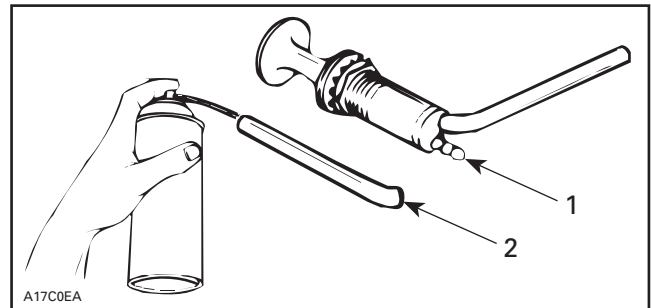
WARNING

Ensure the track is free of all particles which could be thrown out while it is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no one is standing in close proximity to the vehicle.

- Stop the engine.

Models Equipped with a Primer

- To prevent fuel from draining, primer button should be pushed all the way in.
- Disconnect the primer outlet hose from the primer valve (straight coupling).



1. Straight coupling
2. To intake manifold

- Coat interior of primer outlet hose with BOMBARDIER LUBE (P/N 413 711 600).

NOTE: If equipped with a primer, reconnect the primer outlet hose to the primer valve.

Models Equipped with a Choke

Remove air silencer(s) to spray storage oil into each carburetor bore.

Refer to the appropriate *2000 Shop Manual*, section 02.

All Models

- Restart engine and run at idle speed.
- Inject storage oil until the engine stalls or until approximately half a can has entered the engine.
- With the engine stopped, remove the spark plug(s) and spray storage oil into cylinder(s).
- Crank slowly 2 or 3 revolutions to lubricate cylinder(s).
- Reinstall the spark plug(s).

NOTE: If equipped with a primer, reconnect the primer outlet hose to the primer valve.

Mini Z Model

Drain oil from engine. Refill crankcase with SAE 5W/30 engine oil.

Refer to *MINI Z Shop Manual* (P/N 484 200 017) for proper oil change procedure.

WARNING

This procedure must only be performed in a well ventilated area. Do not run engine during storage period.

DRIVE AND DRIVEN PULLEYS

Remove belt guard and slip off drive belt.

Check for physical condition of drive and driven pulley.

Spray antirust product on pulleys (BOMBARDIER LUBE (P/N 293 600 016)).

LIQUID COOLING SYSTEM (IF APPLICABLE)

Check coolant level in coolant tank. Replace coolant if spoiled.

Check for leaks, loose clamps and general condition of hoses.

BATTERY (IF APPLICABLE)

The battery must be removed from snowmobile for storage period.

CAUTION: A poorly charged or a discharged battery will freeze and damage its elements and possibly damage its casing and parts surrounding the battery.

Check for wiring harnesses, cables and line condition.

Disconnect the battery cables and vent tube then remove the battery from the snowmobile.

WARNING

Always disconnect battery cables exactly in the specified order. Disconnect BLACK negative ground cable first, then RED positive cable.

Electrolyte Battery

Check electrolyte level. Refill as necessary with distilled water. Fully charge battery at a maximum rate of 2.0 A/hour.

WARNING

Gases given off by a battery being charged are highly explosive. Always charge in a well ventilated area. Keep battery away from cigarettes or open flames. Avoid skin contact with electrolyte.

Before storing the battery clean outside surface with a solution of baking soda and water. Remove all deposits from posts then rinse with tap water.

CAUTION: Do not allow cleaning solution to enter battery interior since it will destroy the electrolyte.

Dry Battery

Disconnect and remove battery from the snowmobile.

The battery must always be stored in fully charged condition.

Clean battery terminals and cable connections using a wire brush.

Clean battery casing and caps using a solution of baking soda and water. Rinse battery with clear water and dry well using a clean cloth.

All Batteries

Coat battery posts with silicone dielectric grease (P/N 293 550 004) or petroleum jelly.

- To prevent battery from discharging, store it on a wooden shelf in a cool, dry place. Recharge at least every 40 days.

TRANSMISSION/CHAINCASE

Drain then refill with proper amount of Bombardier chaincase oil.

TRANSMISSION/CHAINCASE OIL TYPE	
BOMBARDIER SYNTHETIC OIL (P/N 413 803 300) (12 x 355 mL)	BOMBARDIER MINERAL OIL (P/N 413 801 900) (16 x 250 mL)
All models with liquid cooled engine and all Skandic WT models.	All models with fan cooled engine, except Skandic WT models.

CAUTION: Do not use other types of oil. Do not mix this synthetic oil with other types of oil.

Check for proper drive chain tension.

BODY CARE

Fabrics

To clean the entire vehicle, use only flannel cloths or "Kintowels®" wipers no. 58-380 from Kimberly-Clark.

CAUTION: Do not use other types of fabrics on windshield and hood to avoid further damages to surfaces.

CAUTION: For aluminum parts use only aluminum cleaner and follow instructions on container.

Touch up all metal spots where paint has been scratched off. Spray all metal parts with antirust product.

Wax the hood and the painted portion of the frame for better protection.

NOTE: Apply wax on glossy finish only.

Cleaning Products

UTILITY	COMPONENT	PRODUCT	AVAILABLE AT
To clean THIN coats of grease.	Entire snowmobile including metallic parts.	Endust , from Bristol Myers.	Hardware stores or supermarkets.
To clean THICK coats of grease.		Simple Green from Sunshine Makers Inc.	Hardware stores or automotive parts retailers.
To clean grease.	Aluminum parts.	Dursol cleaner.	Hardware stores or automotive parts retailers.
To clean/repair LIGHT scratches.	Windshield and hood.	Slip Streamer Motorcycle Cleaner and Polish.	Automotive parts retailers.
To clean/repair DEEP scratches.		Slip Streamer Motorcycle Windshield Heavy Duty Scratch Remover.	
		Finish job with Slip Streamer Polish.	

FINAL STEPS

Block air intake hole and exhaust system hole using clean cloths.

Protect the vehicle with a cover to prevent dust accumulation during storage.

Lift rear of vehicle until track is cleared of the ground and support with a brace or trestle.

Do not release track tension.

CAUTION: If snowmobile has to be stored outside it is necessary to cover it with an opaque but ventilated tarpaulin. This will prevent sun rays and grime from affecting plastic components and vehicle finish.