◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9618 RH)

◆ WARNING

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▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

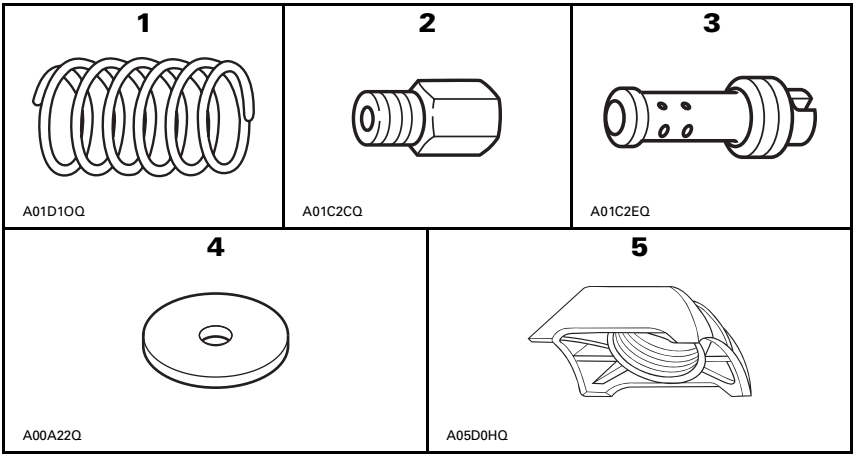
High Altitude Technical Data sheets (P/N 484 0619 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9645 RH)

PARTS TO BE INSTALLED



1.	417 1156 00	Spring	Blue	(1)
2.	404 1195 00	Main jet	185	(1)
	404 1192 00	Main jet	175	(1)
	404 1266 00	Main jet	140	(1)
	404 1249 00	Main jet	130	(1)
	404 1248 00	Main jet	125	(1)
3.	404 1027 00	Pilot jet	35	(1)
4.	417 1158 00	Weight		(9)
5.	417 1157 00	Centrifugal block		(1)

1996-TUNDRA II LT

HIGH ALTITUDE KIT (P/N 861 7538 00)

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	Qty
Spring	Turquoise 417 1159 00	←	Blue 417 1156 00	←	←	←	1
Block	417 1143 00	←	417 1157 00	←	←	←	3
Weight	0	←	3 of 417 1158 00	2 of ←	2 of ←	1 of ←	x 3
Capsule	2	←	0	←	←	←	x 3
Engagement RPM ± 100	3900	←	3200	←	←	←	—
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		White	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	3.6 7.9	←	5.9 13	←	←	←
Cam angle	° (degrees)	37.8	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	14	←	←	←	←	←
Bottom sprocket	25	←	←	←	←	←
Chain, quantity of links	62	←	←	←	←	←
Drive sprocket, quantity of teeth	8	—	—	—	—	—

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

1996-TUNDRA II LT

▼ CAUTION

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

CARBURETION

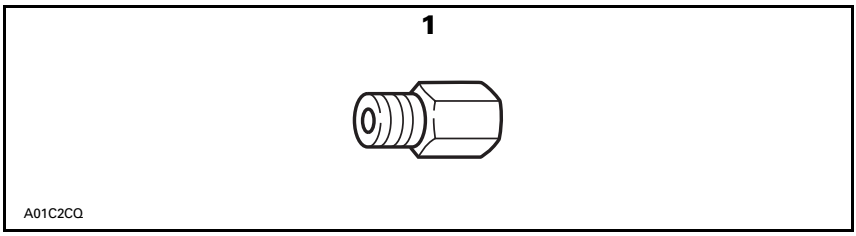
Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190	185	175	140	130	125	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		2	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	35	←	←	1
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		0-8 (154)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1100-1300	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	210	200	190	150	145	135	1
– 30°C – 20°F	200	190	180	145	135	130	1
– 20°C – 4°F	**190**	**185**	**175**	**140**	**130**	**125**	**1**
– 10°C 14°F	185	180	170	135	125	120	1
0°C 32°F	180	175	165	130	120	115	1
10°C 50°F	170	165	155	125	115	110	1
20°C 70°F	165	160	150	120	110	105	1

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

PARTS TO BE INSTALLED



1.	404 1287 00	Main jet	155	(1)
	404 1305 00	Main jet	145	(1)
	404 1304 00	Main jet	135	(1)
	404 1248 00	Main jet	125	(1)
	404 1239 00	Main jet	120	(1)

HIGH ALTITUDE KIT (P/N 861 7539 00)

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	Qty
Spring	Blue 417 1150 00	←	←	←	←	←	1
Block	417 1143 00	←	←	←	←	←	—
Weight	6	←	←	5	←	←	—
Capsule	417 1145 00	←	←	←	←	←	—
Engagement RPM ± 100	2100	←	←	←	←	←	—
Maximum RPM ± 100	5200	←	←	←	←	←	—

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		Black	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	3.6 7.9	←	4.5 9.9	←	←	←
Cam angle	° (degrees)	40.4	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	10	←	←	←	←	←
Bottom sprocket	25	←	←	←	←	←
Chain, quantity of links	62	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-ÉLAN

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		160	155	145	135	125	120	1
Jet needle		6DP1	←	←	←	←	←	1
Needle position		3	←	←	←	←	←	—
Slide cutaway		2.0	←	←	←	←	←	1
Pilot jet		30	←	←	←	←	←	1
Air screw		1.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		0-8 (182)	←	←	←	←	←	1
Float level	mm	17.3	←	←	←	←	←	—
Idle	RPM	1100-1300	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	170	165	155	145	140	130	1
– 30°C – 20°F	165	160	150	140	130	125	1
– 20°C – 4°F	**160**	**155**	**145**	**135**	**125**	**120**	**1**
– 10°C 14°F	155	150	140	130	120	115	1
0°C 32°F	150	145	135	125	115	110	1
10°C 50°F	145	140	130	120	110	105	1
20°C 70°F	140	135	125	115	105	100	1

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

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7502 00)

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

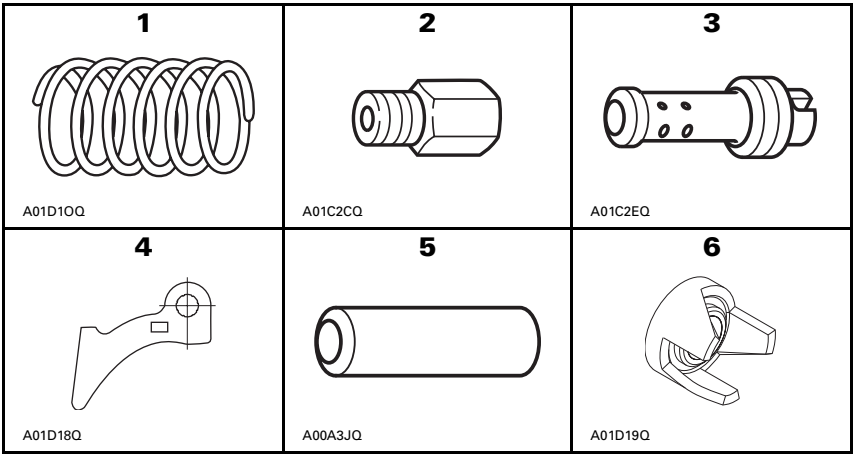
High Altitude Technical Data sheets (P/N 484 0619 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9650 RH)

PARTS TO BE INSTALLED



1.	414 9495 00	Spring	Violet/Pink	(1)
2.	404 1012 00	Main jet	300	(2)
	404 1011 00	Main jet	290	(1)
	404 1005 00	Main jet	280	(2)
	404 1004 00	Main jet	270	(1)
	404 1003 00	Main jet	250	(2)
	404 1002 00	Main jet	240	(1)
	404 1112 00	Main jet	220	(3)
	404 1123 00	Main jet	200	(3)
3.	404 1581 00	Pilot jet	65	(1)
	404 1210 00	Pilot jet	60	(2)
4.	420 480 289	Ramp		(3)
5.	404 429 140	Pin		(3)
6.	504 0960 00	Cam		(1)

1996-FORMULA III AND FORMULA III LT

HIGH ALTITUDE KIT (P/N 861 7502 00)

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	Qty
Spring	Pink/White 420 438 193	←	←	←	←	Violet/Pink 414 9495 00	1
Ramp	420 480 281	←	←	←	←	420 480 289	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 220	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4500	←	4700	←	←	4100	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	6.8 15.0	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	44

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket (Formula III)	25	←	←	←	←	←
Top sprocket (Formula III LT)	23	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links (Formula III)	74	←	←	←	←	←
Chain, quantity of links (Formula III LT)	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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 PTO/Ctr/MAG		330/ 320/330	300/ 290/300	280/ 270/280	250/ 240/250	220/ 220/220	200/ 200/200	—
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.5	←	←	←	←	←	—
Pilot jet PTO/Ctr/MAG		50/55/50	←	←	60/65/60	←	←	—
Air screw PTO/Ctr/MAG		1.50/ 1.50/1.50	←	1.25/ 1.25/1.25	1.50/ 1.50/1.50	1.125/ 1.125/1.125	0.75/ 0.75/0.75	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-O (286)	←	←	←	←	←	3
Starter jet		1.5	←	←	←	←	←	—
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800- 2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.2	1.3	1.4	1.6	1.8	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C (– 40°F)	350/ 340/350	320/ 310/320	300/ 290/300	270/ 260/270	240/ 240/240	210/ 210/210	PTO/ Ctr/MAG
– 30°C (– 20°F)	340/ 330/340	310/ 300/310	290/ 280/290	260/ 250/260	230/ 230/230	205/ 205/205	PTO/ Ctr/MAG
– 20°C (– 4°F)	**330/ 320/330**	**300/ 290/300**	**280/ 270/280**	**250/ 240/250**	**220/ 220/220**	**200/ 200/200**	**PTO/ Ctr/MAG**
– 10°C (14°F)	320/ 310/320	290/ 280/290	270/ 260/270	240/ 230/240	220/ 220/220	190/ 190/190	PTO/ Ctr/MAG
0°C (32°F)	310/ 300/310	290/ 280/290	260/ 250/260	240/ 230/240	210/ 210/210	190/ 190/190	PTO/ Ctr/MAG
10°C (50°F)	300/ 290/300	280/ 270/280	250/ 240/250	230/ 230/230	210/ 210/210	180/ 180/180	PTO/ Ctr/MAG
20°C (70°F)	290/ 280/290	270/ 260/270	240/ 240/240	220/ 220/220	200/ 200/200	180/ 180/180	PTO/ Ctr/MAG

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

◆ WARNING

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▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

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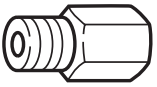
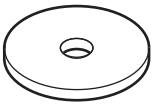
CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9645 RH)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A01C2DQ	 A00A22Q

1.	404 1304 00	Main jet	135	(2)
	404 1249 00	Main jet	130	(2)
	404 1248 00	Main jet	125	(2)
	404 1240 00	Main jet	115	(2)
	404 1241 00	Main jet	110	(2)
2.	404 1169 00	Needle jet	O-8 (159)	(2)
3.	417 1144 00	Weight		(15)

1996-FORMULA S

HIGH ALTITUDE KIT (P/N 861 7513 00)

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	Qty
Spring	Violet *417 1184 00	←	←	←	←	←	1
Block	417 1181 00	←	←	←	←	←	3
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	1	←	←	←	←	←	x 3
Engagement RPM ± 100	3100	←	←	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

*NOTE: The spring is painted VIOLET **not** the normal black.

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		Orange	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	21	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-FORMULA S

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	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.

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

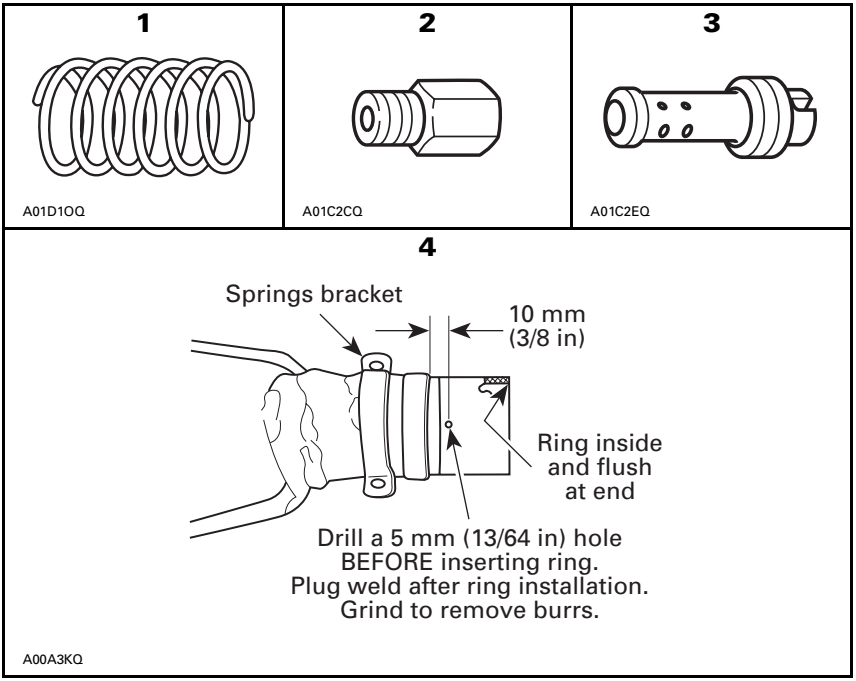
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED



1.	414 6894 00	Spring	Blue/Blue	(1)
2.	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)
	404 1209 00	Main jet	150	(1)
	404 1266 00	Main jet	140	(1)
	404 1249 00	Main jet	130	(1)
	404 1239 00	Main jet	120	(1)
3.	404 1094 00	Pilot jet	45	(2)
4.	514 0434 00	Restriction Ring		(1)

HIGH ALTITUDE KIT (P/N 861 7512 00)

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	Qty
Spring	Blue/Yellow 414 6895 00	←	Blue/Blue 414 6894 00	←	←	←	1
Ramp	420 480 284	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3600	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

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		Orange	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

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

1996-FORMULA SL

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		190 180	180 170	170 160	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.25	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	P/N 514 0434 00	←	←	1

MAIN JET CHART

Calibration \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	210 200	200 190	185 175	165 155	155 145	140 130	PTO MAG
– 30°C – 20°F	200 190	190 180	175 165	155 145	145 135	135 125	PTO MAG
– 20°C – 4°F	**190 180**	**180 170**	**170 160**	**150 140**	**140 130**	**130 120**	**PTO MAG**
– 10°C 14°F	180 170	170 160	165 155	145 135	135 125	125 115	PTO MAG
0°C 32°F	175 165	165 155	160 150	140 130	130 120	120 110	PTO MAG
10°C 50°F	170 160	160 150	150 140	130 120	125 115	115 105	PTO MAG
20°C 70°F	165 155	155 145	145 135	125 115	120 110	110 100	PTO MAG

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

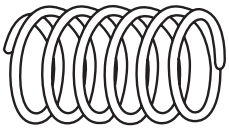
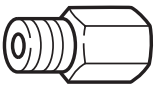
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01C2CQ	 A01C2DQ

1.	414 9914 00	Spring	Pink/White	(1)
2.	404 1012 00	Main jet	300	(2)
	404 1005 00	Main jet	280	(2)
	404 1006 00	Main jet	260	(2)
	404 1002 00	Main jet	240	(2)
	404 1112 00	Main jet	220	(2)
3.	404 1573 00	Needle jet	P-5 (480)	(2)
4.	404 1550 00	Needle jet	P-3 (480)	(2)

1996-FORMULA SLS

HIGH ALTITUDE KIT (P/N 861 7506 00)

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	Qty
Spring	Green/Blue 420 438 194	←	Pink/White 414 9914 00	←	←	←	1
Ramp	420 480 287	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	4500	←	4900	←	←	←	—
Maximum RPM ± 100	7500	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	6.8 15.0	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	25	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-FORMULA SLS

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		320	300	280	260	240	220	2
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	←	←	←	2
Air screw		1.75	←	←	1.25	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-3 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1700-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	←	1.9	2.0	2.1	2.2	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	340	320	300	280	260	240	2
– 30°C – 20°F	330	310	290	270	250	230	2
– 20°C – 4°F	**320**	**300**	**280**	**260**	**240**	**220**	**2**
– 10°C 14°F	310	290	270	250	230	210	2
0°C 32°F	300	280	260	240	220	200	2
10°C 50°F	290	270	250	230	210	190	2
20°C 70°F	280	260	240	220	200	180	2

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

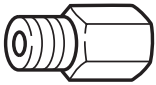
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9618 RH)

PARTS TO BE INSTALLED

1	2
 A01C2CQ	 A00A3JQ

1.	404 1014 00	Main jet	330	(2)
	404 1012 00	Main jet	300	(2)
	404 1005 00	Main jet	280	(2)
	404 1006 00	Main jet	260	(2)
	404 1002 00	Main jet	240	(2)
2.	420 429 140	Pin		(3)

1996-FORMULA SS

HIGH ALTITUDE KIT (P/N 861 7503 00)

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	Qty
Spring	Violet/Yellow 415 0153 00	←	←	←	←	←	1
Ramp	420 480 286	←	←	←	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	504 259 600	←	←	420 429 140	←	←	3
Engagement RPM ± 100	3800	←	←	4100	←	←	—
Maximum RPM ± 100	7700	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	6.8 15.0	←	←	←
Cam angle	° (degrees)	47	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	26	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-FORMULA SS

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		360	330	300	280	260	240	2
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.125	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-3 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.15	2.25	2.4	2.55	2.65	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	380	350	320	300	280	260	2
– 30°C – 20°F	370	340	310	290	270	250	2
– 20°C – 4°F	**360**	**330**	**300**	**280**	**260**	**240**	**2**
– 10°C 14°F	350	320	300	280	260	240	2
0°C 32°F	340	310	290	270	250	230	2
10°C 50°F	340	310	290	270	250	230	2
20°C 70°F	330	300	280	260	240	220	2

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

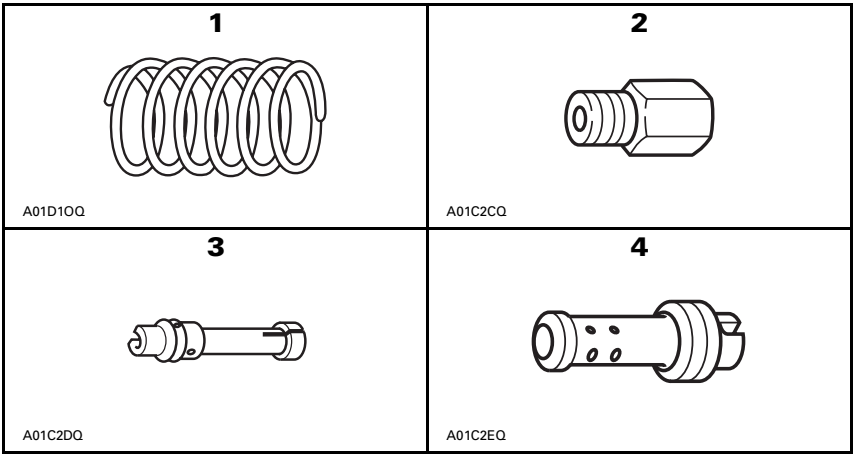
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED



1.	414 8179 00	Spring	Violet/Violet	(1)
2.	404 1078 00	Main jet	310	(1)
	404 1012 00	Main jet	300	(1)
	404 1011 00	Main jet	290	(1)
	404 1005 00	Main jet	280	(1)
	404 1004 00	Main jet	270	(1)
	404 1003 00	Main jet	250	(1)
	404 1189 00	Main jet	230	(1)
	404 1191 00	Main jet	210	(1)
3.	404 1521 00	Needle jet	O-4 (480)	(2)
4.	404 1139 00	Pilot jet	55	(2)

1996-FORMULA STX/STX LT

HIGH ALTITUDE KIT (P/N 861 7505 00)

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	Qty
Spring (STX)	Blue/Green 414 8177 00	←	Violet/Violet 414 8179 00	←	←	←	1
Spring (STX LT)	Yellow/Green 414 7423 00	←	Violet/Violet 414 8179 00	←	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	(STX) 4 (STX LT) 3	5	3	4	←	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	(STX) 3500 (STX LT) 3200	←	(STX) 3800 (STX LT) 3800	←	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	(STX) 25 (STX LT) 23	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	(STX) 74 (STX LT) 72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996 - FORMULA STX/STX LT

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		320 330	300 310	280 290	250 270	230 250	210 230	PTO MAG
Jet needle		6DHN44	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	55	←	2
Air screw		1.5	←	←	1.5 1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (480)	←	←	0-4 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.6	1.65	1.7	1.75	1.8	1.85	—

MAIN JET CHART

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

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

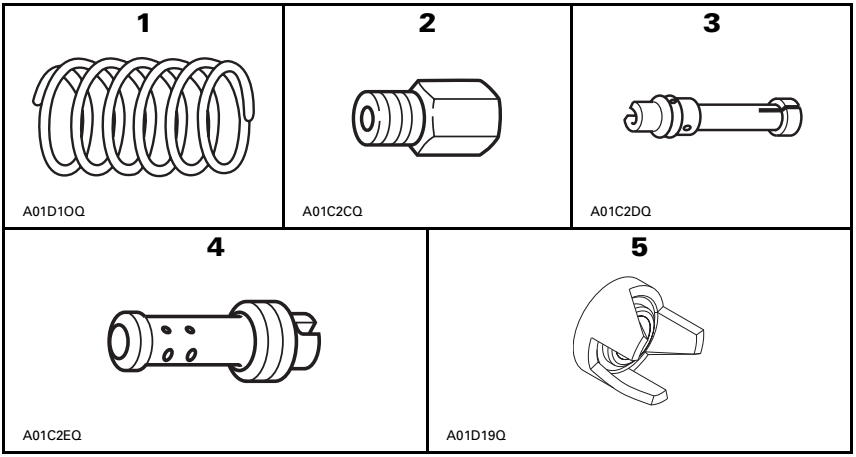
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED



1.	414 8179 00	Spring	Violet\Violet	(1)
2.	404 1013 00	Main jet	320	(2)
	404 1078 00	Main jet	310	(2)
	404 1012 00	Main jet	300	(1)
	404 1011 00	Main jet	290	(1)
	404 1005 00	Main jet	280	(1)
	404 1004 00	Main jet	270	(1)
	404 1006 00	Main jet	260	(1)
	404 1003 00	Main jet	250	(1)
3.	404 1484 00	Needle jet	Z-8 (224)	(2)
4.	404 1210 00	Pilot jet	60	(2)
	404 1139 00	Pilot jet	55	(2)
5.	504 0960 00	Cam	44	(1)

1996-FORMULA Z

HIGH ALTITUDE KIT (P/N 861 7504 00)

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	Qty
Spring	Yellow 414 6055 00	←	Violet/Violet 414 8179 00	←	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	4	5	3	4	←	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	←	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	44	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	25	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-FORMULA Z

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		340	320	310	290 300	270 280	250 260	PTO MAG
Jet needle		7DL7	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		45	←	55	60	←	←	2
Air screw		1.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (224)	←	Z-8 (224)	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.85	1.9	1.95	2.0	2.05	—

MAIN JET CHART

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

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

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BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7511 00)

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

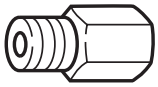
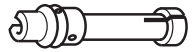
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED

1	2	3
		
A01C2CQ	A01C2DQ	A00A3JQ

1.	404 1012 00	Main Jet	300	(2)
	404 1005 00	Main Jet	280	(2)
	404 1006 00	Main Jet	260	(2)
	404 1002 00	Main Jet	240	(2)
	404 1112 00	Main Jet	220	(2)
2.	404 1573 00	Needle Jet	P-5 (480)	(2)
	404 1550 00	Needle Jet	P-3 (480)	(2)
3.	420 429 140	Pin		(3)

1996 - GRAND TOURING 500

HIGH ALTITUDE KIT (P/N 861 7511 00)

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	Qty
Spring	Green/Blue 414 7682 00	←	←	←	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	504 2596 00	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4100	←	4400	←	←	←	—
Maximum RPM ± 100	7500	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	6.8 15.0	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	23	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996 - GRAND TOURING 500

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		320	300	280	260	240	220	2
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	←	←	←	2
Air screw		1.75	←	←	1.25	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-3 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1700-1900	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	←	1.9	2.0	2.1	2.2	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	340	320	300	280	260	240	2
– 30°C – 20°F	330	310	290	270	250	230	2
– 20°C – 4°F	**320**	**300**	**280**	**260**	**240**	**220**	**2**
– 10°C 14°F	310	290	270	250	230	210	2
0°C 32°F	300	280	260	240	220	200	2
10°C 50°F	290	270	250	230	210	190	2
20°C 70°F	280	260	240	220	200	180	2

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

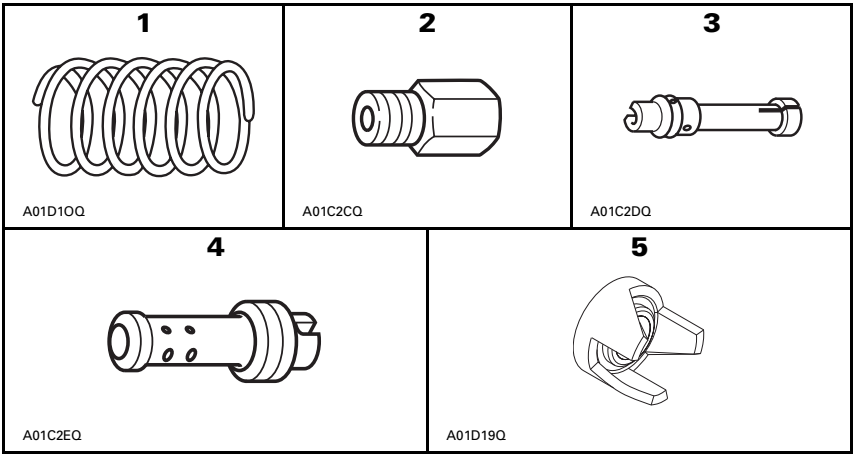
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED



1.	414 6390 00	Spring	Blue/Orange	(1)
2.	404 1060 00	Main jet	350	(1)
	404 1049 00	Main jet	340	(1)
	404 1014 00	Main jet	330	(1)
	404 1013 00	Main jet	320	(1)
	404 1078 00	Main jet	310	(1)
	404 1012 00	Main jet	300	(1)
	404 1011 00	Main jet	290	(1)
	404 1005 00	Main jet	280	(1)
	404 1004 00	Main jet	270	(1)
	404 1006 00	Main jet	260	(1)
3.	404 1537 00	Needle jet	O-3 (480)	(2)
4.	404 1095 00	Pilot jet	50	(2)
5.	504 0960 00	Cam	44°	(1)

1996 - GRAND TOURING 580

HIGH ALTITUDE KIT (P/N 861 7510 00)

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	Qty
Spring	Yellow/Red 414 9930 00	←	←	Blue/Orange 414 6390 00	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	3	4	5	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3200	←	←	←	←	←	—
Maximum RPM ± 100	7300	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	44	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	25	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996 - GRAND TOURING 580

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		360 370	340 350	320 330	300 310	280 290	260 270	PTO MAG
Jet needle		6DHN44	←	←	←	←	←	2
Needle position		4	←	←	3	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	50	←	←	2
Air screw		1.25	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		O-4 (480)	←	←	O-3 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.65	1.7	1.75	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	390 400	270 380	350 360	330 350	310 320	290 300	PTO MAG
– 30°C – 20°F	370 380	350 360	330 340	310 320	290 300	270 280	PTO MAG
– 20°C – 4°F	**360 370**	**340 350**	**320 330**	**300 310**	**280 290**	**260 270**	**PTO MAG**
– 10°C 14°F	350 360	330 340	310 320	290 300	270 280	250 260	PTO MAG
0°C 32°F	340 350	320 330	300 310	280 290	260 270	240 250	PTO MAG
10°C 50°F	330 340	310 320	290 300	270 280	250 260	230 240	PTO MAG
20°C 70°F	310 320	290 300	270 280	250 260	240 250	220 230	PTO MAG

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

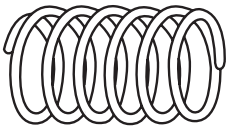
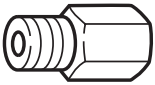
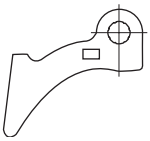
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED

1	2	3
		
A01D1OQ	A01C2CQ	A01D18Q

1.	415 0153 00	Spring	Violet/Yellow	(1)
2.	404 1014 00	Main jet	330	(2)
	404 1012 00	Main jet	300	(2)
	404 1005 00	Main jet	280	(2)
	404 1006 00	Main jet	260	(2)
	404 1002 00	Main jet	240	(2)
3.	420 480 286	Ramp		(3)

1996 - GRAND TOURING SE

HIGH ALTITUDE KIT (P/N 861 7509 00)

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	Qty
Spring	Yellow/Orange 414 6897 00	←	←	Violet/Yellow 415 0153 00	←	←	1
Ramp	420 480 280	←	←	420 480 286	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3500	←	←	3800	←	←	—
Maximum RPM ± 100	7700	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	47	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	25	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996 - GRAND TOURING SE

▼ CAUTION

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

CARBURETION

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		360	330	300	280	260	240	2
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.125	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-3 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.15	2.25	2.4	2.55	2.65	—

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	380	350	320	300	280	260	2
– 30°C – 20°F	370	340	310	290	270	250	2
– 20°C – 4°F	**360**	**330**	**300**	**280**	**260**	**240**	**2**
– 10°C 14°F	350	320	300	280	260	240	2
0°C 32°F	340	310	290	270	250	230	2
10°C 50°F	340	310	290	270	250	230	2
20°C 70°F	330	300	280	260	240	220	2

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

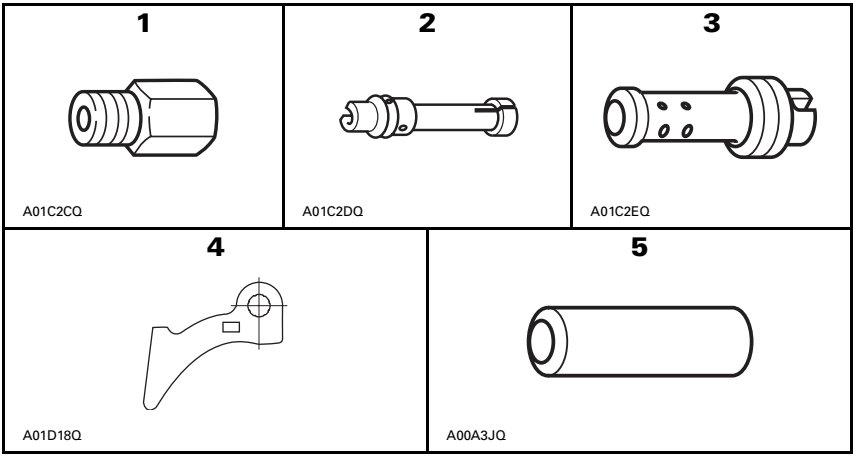
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9618 RH)

PARTS TO BE INSTALLED



1.	404 1010 00	Main jet	410	(1)
	404 1064 00	Main jet	390	(1)
	404 1063 00	Main jet	380	(1)
	404 1061 00	Main jet	360	(1)
	404 1060 00	Main jet	350	(1)
	404 1014 00	Main jet	330	(1)
	404 1013 00	Main jet	320	(1)
	404 1012 00	Main jet	300	(1)
	404 1005 00	Main jet	280	(1)
2.	404 1518 00	Needle jet	AA-3 (224)	(2)
	404 1554 00	Needle jet	AA-1 (224)	(2)
3.	404 1531 00	Pilot jet	45	(2)
4.	420 480 283	Ramp		(3)
5.	420 429 140	Pin		(3)

HIGH ALTITUDE KIT (P/N 861 7501 00)

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	Qty
Spring	Pink/White 414 9914 00	←	←	←	←	←	1
Ramp	420 480 286	←	420 480 283	←	←	←	3
Calibration screw position	2	3	2	3	4	5	—
Pin	504 259 600	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4500	←	4700	←	←	←	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	47	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	26	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		420 400	410 390	380 360	350 330	320 300	300 280	PTO MAG
Jet needle		7EGO6	←	←	←	←	←	2
Needle position		3	←	2	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		35	←	←	45	←	←	2
Air screw		1.5	←	←	←	←	←	—
Valve seat		2.0	←	←	←	←	←	2
Needle jet		AA-7 (224)	←	←	AA-3 (224)	←	AA-1 (224)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	2.25	2.3	2.4	2.45	2.5	2.6	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	440 420	430 410	400 380	370 350	340 320	320 300	PTO MAG
– 30°C – 20°F	430 410	420 400	390 370	360 340	330 310	310 290	PTO MAG
– 20°C – 4°F	**420 400**	**410 390**	**380 360**	**350 330**	**320 300**	**300 280**	**PTO MAG**
– 10°C 14°F	410 390	400 380	370 350	340 320	310 290	290 270	PTO MAG
0°C 32°F	400 380	390 370	360 340	330 310	300 280	280 260	PTO MAG
10°C 50°F	390 370	380 360	350 330	320 300	290 270	270 250	PTO MAG
20°C 70°F	380 360	370 350	340 320	310 290	280 260	260 240	PTO MAG

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

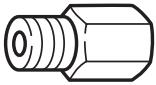
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9618 RH)

PARTS TO BE INSTALLED

1	2
	
A01C2CQ	A00A3JQ

1.	404 1060 00	Main jet	350	(2)
	404 1049 00	Main jet	340	(1)
	404 1013 00	Main jet	320	(2)
	404 1078 00	Main jet	310	(1)
	404 1011 00	Main jet	290	(2)
	404 1005 00	Main jet	280	(1)
	404 1006 00	Main jet	260	(2)
	404 1003 00	Main jet	250	(1)
	404 1189 00	Main jet	230	(2)
	404 1112 00	Main jet	220	(1)
2.	420 429 140	Pin		(3)

HIGH ALTITUDE KIT (P/N 861 7499 00)

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	Qty
Spring	Green/Violet 414 7628 00	←	←	←	←	←	1
Ramp	420 480 286	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	504 259 600	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	6.8 15.0	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	26	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996 - MACH Z

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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 PTO/Ctr/MAG		380/ 370/380	350/ 340/350	320/ 310/320	290/ 280/290	260/ 250/260	230/ 220/230	—
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.0	←	←	←	←	←	3
Pilot jet PTO/Ctr/MAG		40/45/45	←	←	←	←	←	—
Air screw PTO/Ctr/MAG		4.5/ 4.0/3.5	←	←	3.375/ 3.0/2.625	2.25/ 2.0/1.75	2.0/ 1.75/1.5	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-4 (372)	←	←	←	←	←	3
Float level	mm	20	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.2	1.4	1.6	1.8	2.0	2.2	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C (– 40°F)	400 390/400	370 360/370	340 330/340	300 290/300	270 260/270	240 230/240	PTO Ctr/MAG
– 30°C (– 20°F)	390 380/390	360 350/300	330 320/330	300 290/300	270 260/270	240 230/240	PTO Ctr/MAG
– 20°C (– 4°F)	**380 370/380**	**350 340/350**	**320 310/320**	**290 280/290**	**260 250/260**	**230 220/230**	**PTO Ctr/MAG**
– 10°C (14°F)	370 360/370	340 330/340	310 300/310	280 270/280	250 240/250	220 210/220	PTO Ctr/MAG
0°C (32°F)	360 350/360	330 320/330	300 290/300	270 260/270	250 240/250	220 210/220	PTO Ctr/MAG
10°C (50°F)	350 340/350	320 310/320	290 280/290	260 250/260	240 230/240	210 200/200	PTO Ctr/MAG
20°C (70°F)	340 330/340	310 300/310	290 280/290	260 250/260	230 220/230	200 190/200	PTO Ctr/MAG

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

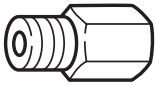
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9618 RH)

PARTS TO BE INSTALLED

1	2
	
A01C2CQ	A00A3JQ

1.	404 1060 00	Main jet	350	(2)
	404 1049 00	Main jet	340	(1)
	404 1013 00	Main jet	320	(2)
	404 1078 00	Main jet	310	(1)
	404 1011 00	Main jet	290	(2)
	404 1005 00	Main jet	280	(1)
	404 1006 00	Main jet	260	(2)
	404 1003 00	Main jet	250	(1)
	404 1189 00	Main jet	230	(2)
	404 1112 00	Main jet	220	(1)
2.	420 429 140	Pin		(3)

1996-MACH Z LT

HIGH ALTITUDE KIT (P/N 861 7500 00)

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	Qty
Spring	Green/Violet 414 7628 00	←	←	←	←	←	1
Ramp	420 480 286	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	504 259 600	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	6.8 15.0	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	25	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996 - MACH Z LT

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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 PTO/Ctr/MAG		380/ 370/380	350/ 340/350	320/ 310/320	290/ 280/290	260/ 250/260	230/ 220/230	—
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.0	←	←	←	←	←	3
Pilot jet PTO/Ctr/MAG		40/45/45	←	←	←	←	←	—
Air screw PTO/Ctr/MAG		4.5/ 4.0/3.5	←	←	3.375/ 3.0/2.625	2.25/ 2.0/1.75	2.0/ 1.75/1.5	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-4 (372)	←	←	←	←	←	3
Float level	mm	20	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.2	1.4	1.6	1.8	2.0	2.2	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C (– 40°F)	400 390/400	370 360/370	340 330/340	300 290/300	270 260/270	240 230/240	PTO Ctr/MAG
– 30°C (– 20°F)	390 380/390	360 350/300	330 320/330	300 290/300	270 260/270	240 230/240	PTO Ctr/MAG
– 20°C (– 4°F)	**380 370/380**	**350 340/350**	**320 310/320**	**290 280/290**	**260 250/260**	**230 220/230**	**PTO Ctr/MAG**
– 10°C (14°F)	370 360/370	340 330/340	310 300/310	280 270/280	250 240/250	220 210/220	PTO Ctr/MAG
0°C (32°F)	360 350/360	330 320/330	300 290/300	270 260/270	250 240/250	220 210/220	PTO Ctr/MAG
10°C (50°F)	350 340/350	320 310/320	290 280/290	260 250/260	240 230/240	210 200/200	PTO Ctr/MAG
20°C (70°F)	340 330/340	310 300/310	290 280/290	260 250/260	230 220/230	200 190/200	PTO Ctr/MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7508 00)

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

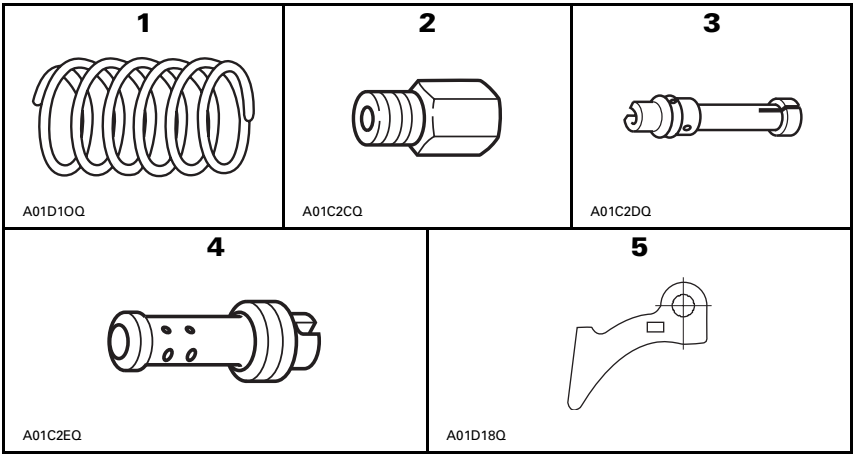
High Altitude Technical Data sheets (P/N 484 0619 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9646 RH)

PARTS TO BE INSTALLED



1.	414 7569 00	Spring	Green/Pink	(1)
2.	404 1112 00	Main jet	220	(1)
	404 1123 00	Main jet	200	(1)
	404 1191 00	Main jet	210	(1)
	404 1190 00	Main jet	190	(1)
	404 1192 00	Main jet	175	(1)
	404 1238 00	Main jet	170	(1)
	404 1193 00	Main jet	165	(1)
	404 1287 00	Main jet	155	(1)
	404 1305 00	Main jet	145	(1)
3.	404 1106 00	Needle jet	P-6 (159)	(2)
	404 1586 00	Needle jet	P-5 (159)	(2)
4.	404 1095 00	Pilot jet	50	(2)
5.	420 480 289	Ramp		(3)

HIGH ALTITUDE KIT (P/N 861 7508 00)

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	Qty
Spring	Pink/White 414 9914 00	←	Green/Pink 414 7569 00	←	←	←	1
Ramp	420 480 283	←	420 480 289	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	4400	←	←	←	←	←	—
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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	23	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		230 210	220 200	210 190	190 170	175 155	165 145	PTO MAG
Jet needle		6FJ43	←	←	←	←	←	2
Needle position		2	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		.5	←	←	.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-8 (159)	←	P-6 (159)	P-5 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1600-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	←	1.9	2.0	2.1	2.2	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	250 230	240 220	230 210	210 200	195 175	185 165	PTO MAG
– 30°C – 20°F	240 220	230 210	220 200	200 180	185 165	175 155	PTO MAG
– 20°C – 4°F	**230 210**	**220 200**	**210 190**	**190 170**	**175 155**	**165 145**	**PTO MAG**
– 10°C 14°F	220 200	210 190	200 180	180 160	165 145	155 135	PTO MAG
0°C 32°F	210 190	200 180	190 170	170 150	155 135	145 125	PTO MAG
10°C 50°F	200 180	190 170	180 160	160 140	145 125	135 115	PTO MAG
20°C 70°F	190 170	180 160	170 150	150 130	135 115	125 105	PTO MAG

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

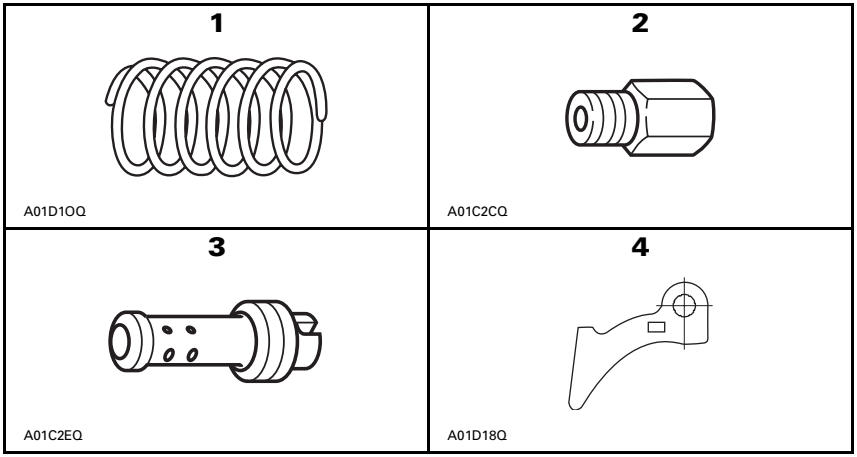
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED



1.	415 0349 00	Spring	Violet/Blue	(1)
2.	404 1003 00	Main Jet	250	(1)
	404 1002 00	Main Jet	240	(1)
	404 1189 00	Main Jet	230	(1)
	404 1112 00	Main Jet	220	(1)
	404 1191 00	Main Jet	210	(1)
	404 1123 00	Main Jet	200	(1)
	404 1190 00	Main Jet	190	(1)
	404 1122 00	Main Jet	180	(1)
	404 1238 00	Main Jet	170	(1)
3.	404 1139 00	Pilot jet	55	(2)
4.	420 480 289	Ramp		(3)

HIGH ALTITUDE KIT (P/N 861 7507 00)

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	Qty
Spring	Green/Blue 414 7682 00	←	Violet/Blue 415 0349 00	←	←	←	1
Ramp	420 480 286	←	420 480 289	←	←	←	3
Calibration screw position	2	3	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	4400	←	3800	←	←	←	3
Maximum RPM ± 100	7900	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	25	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		270 260	250 240	230 220	210 200	190 180	180 170	PTO MAG
Jet needle		7ECY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	55	←	←	2
Air screw		1.875	←	←	1.5	1.25	.75	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	290 280	270 260	250 240	230 220	210 200	200 190	PTO MAG
– 30°C – 20°F	280 270	260 250	240 230	220 210	200 190	190 180	PTO MAG
– 20°C – 4°F	**270 260**	**250 240**	**230 220**	**210 200**	**190 180**	**180 170**	**PTO MAG**
– 10°C 14°F	260 250	240 230	220 210	200 190	185 175	175 165	PTO MAG
0°C 32°F	255 245	235 225	215 205	195 185	175 165	165 155	PTO MAG
10°C 50°F	245 235	225 215	205 195	185 175	165 155	155 145	PTO MAG
20°C 70°F	235 225	215 205	195 185	175 165	155 145	145 135	PTO MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7551 00)

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

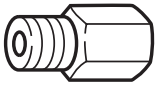
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting, the jets included in this kit and the recommended main jets in **bold face type** in the "MAIN JET CHART" are prescribed for a temperature of –20°C (–4°F). Snowmobile utilization above or below these temperatures require different jetting. In that case, find the recommended main jet(s) in the "MAIN JET CHART" and order them according to the Bombardier P/N (part number) given in the "CARBURETOR MAIN JETS" chart that can be found on page 29 in the previously mentioned High Altitude Technical Data sheets.

Litho'd in Canada (MSI-9656 RH)

PARTS TO BE INSTALLED

1	2
 A01C2CQ	 A00A3JQ

1.	404 1005 00	Main Jet	280	(1)
	404 1006 00	Main Jet	260	(1)
	404 1003 00	Main Jet	250	(1)
	404 1002 00	Main Jet	240	(1)
	404 1189 00	Main Jet	230	(1)
	404 1112 00	Main Jet	220	(1)
	404 1191 00	Main Jet	210	(1)
	404 1123 00	Main Jet	200	(1)
	404 1190 00	Main Jet	190	(1)
	404 1238 00	Main Jet	170	(1)
2.	420 429 140	Pin		(3)

HIGH ALTITUDE KIT (P/N 861 7551 00)

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	Qty
Spring	Violet/Yellow	←	←	←	←	←	1
Ramp	420 480 286	←	←	←	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	420 429 220	←	←	420 429 140	←	←	3
Engagement RPM ± 100	3800	←	←	4500	←	←	—
Maximum RPM ± 100	7700	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	6.8 15.0	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	26	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	74	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		300 270	280 250	260 230	240 210	220 190	200 170	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.125	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1900	←	←	←	←	←	—
Idle throttle valve position	mm	2.10	2.35	2.45	2.60	2.75	2.85	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	320 290	300 270	280 250	260 230	240 210	220 190	PTO MAG
– 30°C – 20°F	310 280	290 260	270 240	250 220	230 200	210 180	PTO MAG
– 20°C – 4°F	**300 270**	**280 250**	**260 230**	**240 210**	**220 190**	**200 170**	**PTO MAG**
– 10°C 14°F	290 260	270 240	250 220	230 200	210 180	190 160	PTO MAG
0°C 32°F	280 250	260 230	240 210	220 200	200 180	180 160	PTO MAG
10°C 50°F	270 240	250 220	230 210	210 190	200 170	180 150	PTO MAG
20°C 70°F	260 230	240 220	220 200	200 180	180 160	170 140	PTO MAG

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

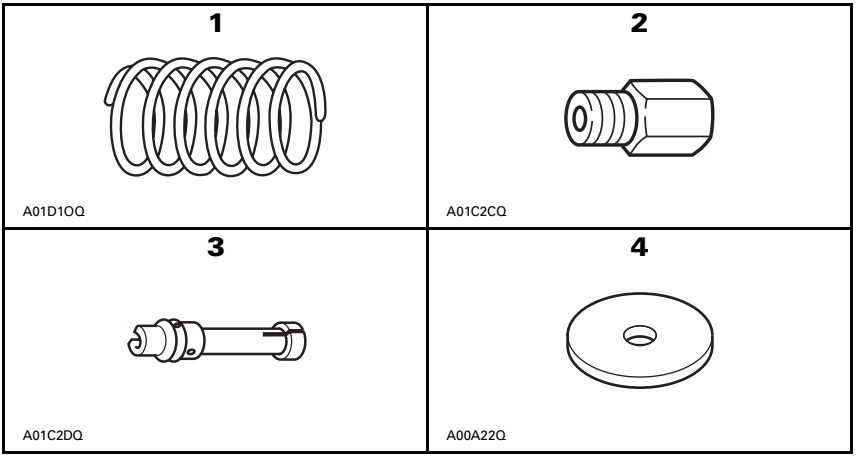
High Altitude Technical Data sheets (P/N 484 0619 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9645 RH)

PARTS TO BE INSTALLED



1.	417 1184 00	Spring	Violet	(1)
2.	404 1249 00	Main jet	130	(2)
	404 1304 00	Main jet	135	(2)
	404 1248 00	Main jet	125	(2)
	404 1240 00	Main jet	115	(2)
	404 1241 00	Main jet	110	(2)
3.	404 1169 00	Needle jet	O-8 (159)	(2)
4.	417 1144 00	Weight		(15)

1996-SKANDIC 380

HIGH ALTITUDE KIT (P/N 861 7518 00)

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	Qty
Spring	Yellow/Green *417 1185 00	←	Red/Blue *417 1184 00	←	←	←	1
Block	417 1181 00	←	←	←	←	←	3
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	1	←	←	←	←	←	x 3
Engagement RPM ± 100	2900	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

*NOTE: The spring is painted VIOLET **not** the normal black.

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		Orange	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	21	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996 - SKANDIC 380

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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	←	←	45	←	←	2
Air screw		1.25	←	←	.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	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.

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

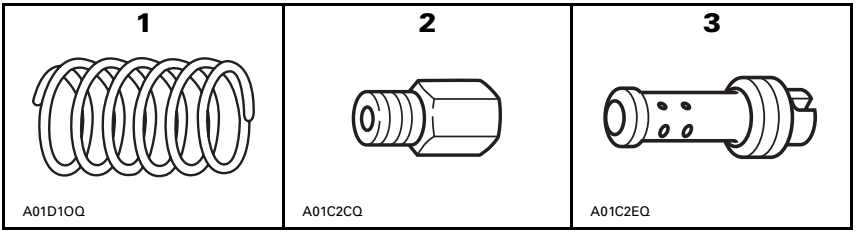
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED



1.	414 6915 00	Spring	Red/Blue	(1)
2.	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)
	404 1209 00	Main jet	150	(1)
	404 1266 00	Main jet	140	(1)
	404 1249 00	Main jet	130	(1)
	404 1239 00	Main jet	120	(1)
3.	404 1094 00	Pilot jet	45	(2)

HIGH ALTITUDE KIT (P/N 861 7517 00)

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	Qty
Spring	Red/Orange 420 438 130	←	Red/Blue 420 438 095	←	←	←	1
Ramp	420 480 284	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3000	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

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		Orange	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	21	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		190 180	180 170	170 160	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.25	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	210 200	200 190	185 175	165 155	155 145	140 130	PTO MAG
– 30°C – 20°F	200 190	190 180	175 165	155 145	145 135	135 125	PTO MAG
– 20°C – 4°F	**190 180**	**180 170**	**170 160**	**150 140**	**140 130**	**130 120**	**PTO MAG**
– 10°C 14°F	180 170	170 160	165 155	145 135	135 125	125 115	PTO MAG
0°C 32°F	175 165	165 155	160 150	140 130	130 120	120 110	PTO MAG
10°C 50°F	170 160	160 150	150 140	130 120	125 115	115 105	PTO MAG
20°C 70°F	165 155	155 145	145 135	125 115	120 110	110 100	PTO MAG

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

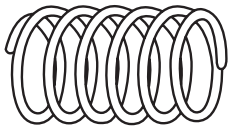
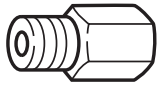
High Altitude Technical Data sheets (P/N 484 0619 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9647 RH)

PARTS TO BE INSTALLED

1	2
 A01D1OQ	 A01C2CQ

1.	414 6915 00	Spring	Red/Blue	(1)
2.	404 1191 00	Main jet	210	(1)
	404 1190 00	Main jet	190	(1)
	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)
	404 1209 00	Main jet	150	(1)

HIGH ALTITUDE KIT (P/N 861 7519 00)

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	Qty
Spring	Blue/Violet 420 438 137	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	420 480 146	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	2900	←	←	←	←	←	—
Maximum RPM ± 100	6500	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.4 14.1	←	←	←	←	←
Cam angle	° (degrees)	35-50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	N/A	←	←	←	←	←
Bottom sprocket	N/A	←	←	←	←	←
Chain, quantity of links	N/A	←	←	←	←	←
Drive sprocket, quantity of teeth	8	—	—	—	—	—

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

1996 - SKANDIC WT

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		220	210	190	170	160	150	1
Jet needle		6DH8	←	←	←	←	←	1
Needle position		4	←	←	3	←	←	—
Slide cutaway		3.0	←	←	←	←	←	1
Pilot jet		25	←	←	←	←	←	1
Air screw		1.5	←	←	.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		O-0 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	←	1.5	1.6	1.7	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	240	230	210	185	180	170	1
– 30°C – 20°F	230	220	200	180	170	160	1
– 20°C – 4°F	**220**	**210**	**190**	**170**	**160**	**150**	**1**
– 10°C 14°F	210	200	180	165	155	145	1
0°C 32°F	200	190	170	160	150	140	1
10°C 50°F	190	180	160	150	145	135	1
20°C 70°F	180	170	150	140	140	130	1

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

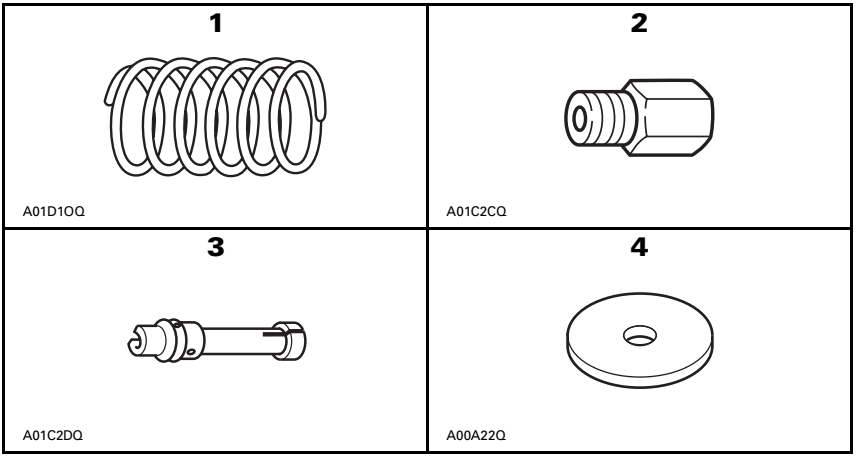
High Altitude Technical Data sheets (P/N 484 0619 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9645 RH)

PARTS TO BE INSTALLED



1.	417 1184 00	Spring	Violet	(1)
2.	404 1304 00	Main jet	135	(2)
	404 1249 00	Main jet	130	(2)
	404 1248 00	Main jet	125	(2)
	404 1240 00	Main jet	115	(2)
	404 1241 00	Main jet	110	(2)
3.	404 1169 00	Needle jet	0-8 (159)	(2)
4.	417 1144 00	Weight		(15)

1996-TOURING E/E LT

HIGH ALTITUDE KIT (P/N 861 7516 00)

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	Qty
Spring (Touring E LT)	Yellow/Green *417 1185 00	←	Red/Blue *417 1184 00	←	←	←	1
Spring (Touring E)	Red/Blue *417 1184 00	←	←	←	←	←	1
Block	417 1181 00	←	←	←	←	←	3
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	1	←	←	←	←	←	x 3
Engagement RPM ± 100	(E LT) 2900 (E) 3100	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

*NOTE: The spring is painted VIOLET **not** the normal black.

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		Orange	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	21	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-TOURING E/E LT

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	0.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	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.

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

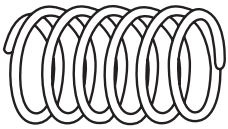
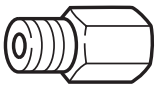
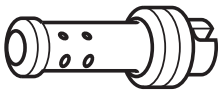
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED

1	2	3
		
A01D1OQ	A01C2CQ	A01C2EQ

1.	415 0154 00	Spring	Violet/Green	(1)
2.	404 1238 00	Main jet	170	(2)
	404 1182 00	Main jet	160	(2)
	404 1266 00	Main jet	140	(2)
	404 1249 00	Main jet	130	(2)
	404 1239 00	Main jet	120	(2)
3.	404 1094 00	Pilot jet	45	(2)

1996-TOURING LE

HIGH ALTITUDE KIT (P/N 861 7515 00)

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	Qty
Spring	Yellow/Violet 414 6784 00	←	Violet/Green 415 0154 00	←	←	←	1
Ramp	420 480 227	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3100	←	3500	←	←	←	—
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		Orange	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	21	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-TOURING LE

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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	160	140	130	120	2
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	1	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		2.25	←	←	1.25	1.0	0.75	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-1 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.2	2.3	2.4	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	195	185	175	155	145	135	2
– 30°C – 20°F	185	175	165	145	135	125	2
– 20°C – 4°F	**180**	**170**	**160**	**140**	**130**	**120**	**2**
– 10°C 14°F	175	165	155	135	125	115	2
0°C 32°F	170	160	150	130	120	110	2
10°C 50°F	165	155	145	125	115	105	2
20°C 70°F	155	145	135	115	105	95	2

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

◆ WARNING

For safety reasons, this kit must be installed by an authorized Bombardier snowmobile dealer. Should removal of a locking device be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific models. It is not recommended for vehicles other than those for which it was sold.

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

The transmission and carburetion charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

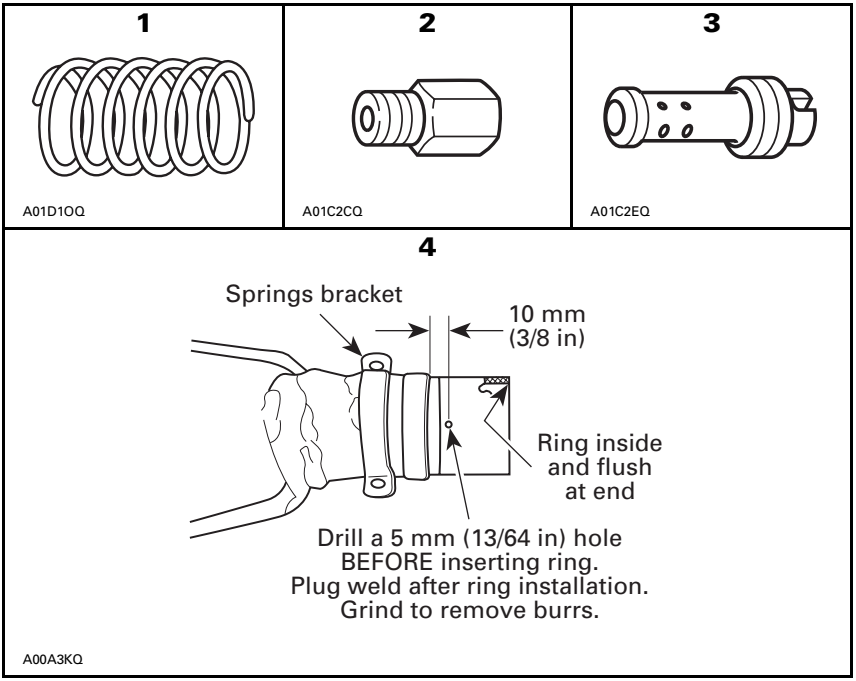
High Altitude Technical Data sheets (P/N 484 0624 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the set.

CARBURETOR JETTING

Stock vehicle jetting and the main jets included in this kit are prescribed for a temperature of –20°C (–4°F), as indicated by **bold face type** on the main jet chart. Snowmobile utilization above or below this temperature requires a different jetting. In that case, find the required main jet size in "Carburetion" chart and order it according to the Bombardier P/N (part numbers) given in "Main Jet" P/N chart that can be found in the previously mentioned *High Altitude Technical Data* sheets.

Litho'd in Canada (MSI-9619 RH)

PARTS TO BE INSTALLED



1.	414 6915 00	Spring	Red/Blue	(1)
2.	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)
	404 1209 00	Main jet	150	(1)
	404 1266 00	Main jet	140	(1)
	404 1249 00	Main jet	130	(1)
	404 1239 00	Main jet	120	(1)
3.	404 1094 00	Pilot jet	45	(2)
4.	514 0434 00	Restricion Ring		(1)

1996-TOURING SLE

HIGH ALTITUDE KIT (P/N 861 7514 00)

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	Qty
Spring	Red/Orange 415 0152 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	420 480 284	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3000	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

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		Orange	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	21	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

1996-TOURING SLE

▼ CAUTION

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

CARBURETION

Calibration \ Altitude		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		190 180	180 170	170 160	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.25	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	P/N 514 0434 00	←	←	1

MAIN JET CHART

Calibration \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	210 200	200 190	185 175	165 155	155 145	140 130	PTO MAG
– 30°C – 20°F	200 190	190 180	175 165	155 145	145 135	135 125	PTO MAG
– 20°C – 4°F	**190 180**	**180 170**	**170 160**	**150 140**	**140 130**	**130 120**	**PTO MAG**
– 10°C 14°F	180 170	170 160	165 155	145 135	135 125	125 115	PTO MAG
0°C 32°F	175 165	165 155	160 150	140 130	130 120	120 110	PTO MAG
10°C 50°F	170 160	160 150	150 140	130 120	125 115	115 105	PTO MAG
20°C 70°F	165 155	155 145	145 135	125 115	120 110	110 100	PTO MAG

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