BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7567 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.

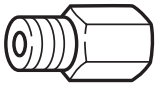
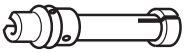
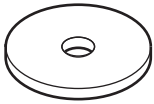
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

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)

1997 - FORMULA S

HIGH ALTITUDE KIT (P/N 861 7567 00)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Blue on 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	417 1145 00	←	←	←	←	←	x 3
Engagement RPM ± 100	3100	←	←	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		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

Gearing \ Altitude	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.

1997 - 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 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 ± 200	1650	←	←	←	←	←	—
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.

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7566 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.

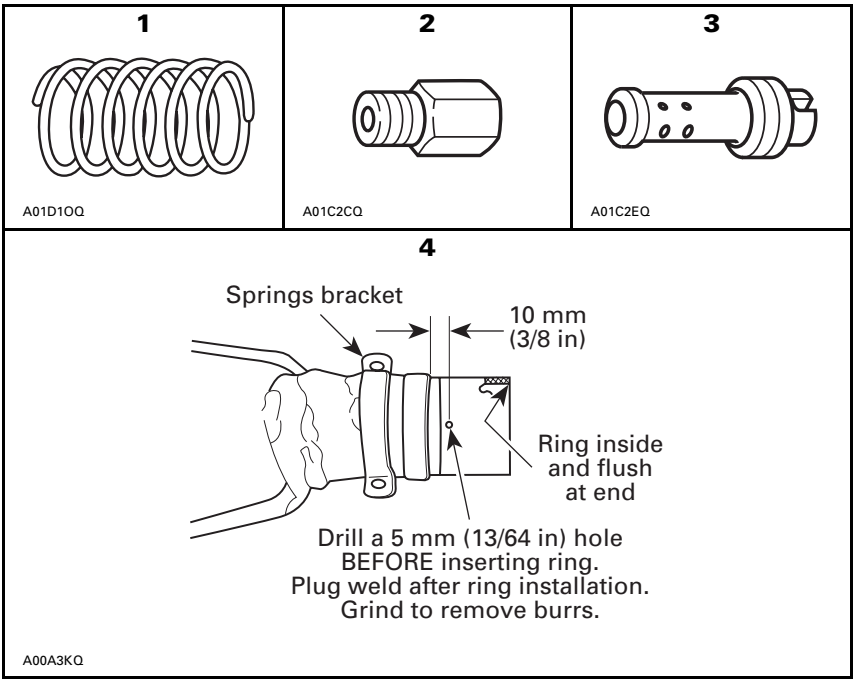
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED



1.	414 6894 00	Spring	Blue/Blue	(1)
2.	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)

1997 - FORMULA SL

HIGH ALTITUDE KIT (P/N 861 7566 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	417 0052 84	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	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	←	←	←	←	←

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	22	←	←	←	←	←
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.

1997 - 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		180 170	170 160	160 150	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		1.825	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	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	200 190	190 180	175 165	165 155	155 145	140 130	PTO MAG
– 30°C – 20°F	190 180	180 170	165 155	155 145	145 135	135 125	PTO MAG
– 20°C – 4°F	**180 170**	**170 160**	**160 150**	**150 140**	**140 130**	**130 120**	**PTO MAG**
– 10°C 14°F	170 160	160 150	155 145	145 135	135 125	125 115	PTO MAG
0°C 32°F	165 155	155 145	150 140	140 130	130 120	120 110	PTO MAG
10°C 50°F	160 150	150 140	140 130	130 120	125 115	115 105	PTO MAG
20°C 70°F	155 145	145 135	135 125	125 115	120 110	110 100	PTO MAG

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

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7563 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.

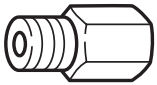
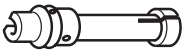
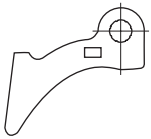
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01C2CQ	 A01D18Q

1.	404 1002 00	Main jet	240	(1)
	404 1189 00	Main jet	230	(1)
	404 1191 00	Main jet	210	(1)
	404 1190 00	Main jet	190	(1)
	404 1238 00	Main jet	170	(1)
	404 1209 00	Main jet	150	(1)
2.	404 1335 00	Needle jet	AA-0 (224)	(2)
3.	417 0052 89	Ramp	289	(3)

1997 - FORMULA Z

HIGH ALTITUDE KIT (P/N 861 7563 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/Blue 415 0349 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	4100	←	←	4200	←	←	—
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	7.0 15.4	←	←	←	←	←
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.

1997 - 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		280 260	260 240	230 210	210 190	190 170	170 150	PTO MAG
Jet needle		7ECY1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.0	←	←	←	1.75	1.5	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (224)	←	←	AA-0 (224)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.0	2.10	2.20	2.60	2.70	2.80	—

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	310 290	280 260	250 230	230 210	210 190	190 170	PTO MAG
– 30°C – 20°F	290 270	270 250	240 220	220 200	200 180	180 160	PTO MAG
– 20°C – 4°F	**280 260**	**260 240**	**230 210**	**210 190**	**190 170**	**170 150**	**PTO MAG**
– 10°C 14°F	270 250	250 230	220 200	200 180	180 160	160 145	PTO MAG
0°C 32°F	250 230	240 220	210 190	190 170	170 155	150 135	PTO MAG
10°C 50°F	240 220	230 210	200 170	180 160	160 145	145 130	PTO MAG
20°C 70°F	230 200	220 190	190 160	170 150	155 135	135 120	PTO MAG

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

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7562 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.

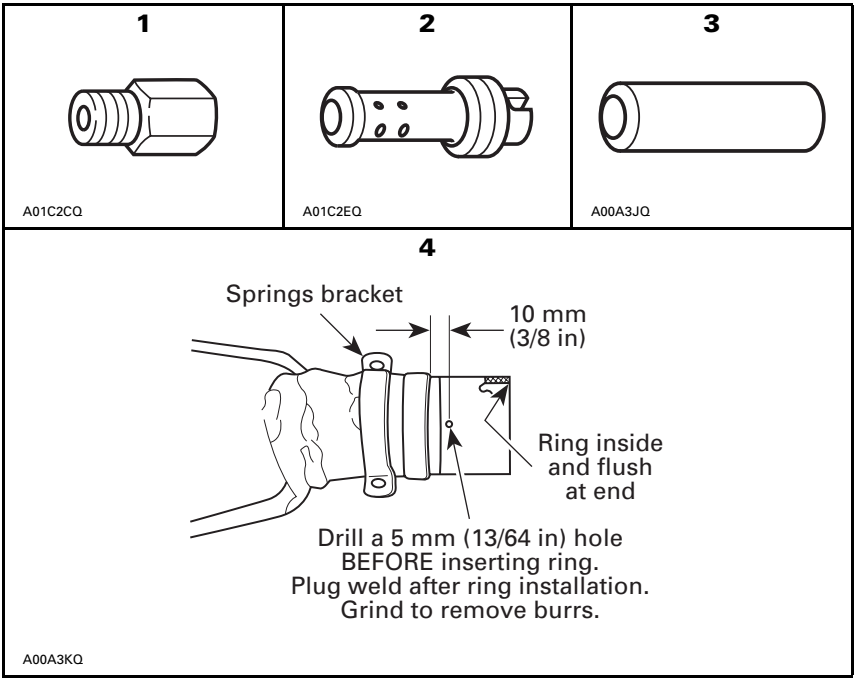
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9712 PRM)

PARTS TO BE INSTALLED



1.	404 1012 00	Main jet	300	(3)
	404 1005 00	Main jet	280	(3)
	404 1003 00	Main jet	250	(3)
	404 1112 00	Main jet	220	(3)
	404 1123 00	Main jet	200	(3)
2.	404 1210 00	Pilot jet	60	(3)
3.	417 0043 03	Pin		(3)
4.	514 0968 00	Restriction Ring		(3)

1997 - FORMULA III AND FORMULA III LT

HIGH ALTITUDE KIT (P/N 861 7562 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	417 0052 81	←	←	←	←	←	3
Calibration screw position	4	5	6	2	3	4	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	4500	←	←	←	←	←	—
Maximum RPM ± 100	8400	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 Formula III LT: 23	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	Formula III: 74 Formula III LT: 72	←	←	←	←	←
Drive sprocket, quantity of teeth	9	—	—	—	—	—

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

Additional Information: At 2400 m, on Formula III LT, Restriction Ring (P/N 0968 00) Qty 3, must be installed.

1997 - FORMULA III AND FORMULA III 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		330	300	280	250	220	200	3
Jet needle		6DEY4	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	60	←	←	3
Air screw		1.50	←	1.25	1.00	0.75	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-O (286)	←	←	←	←	←	3
Starter jet		1.60	←	←	←	←	←	—
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1900	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	1.40	1.60	1.80	2.00	←	—

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	320	300	270	240	210	3
– 30°C – 20°F	340	310	290	260	230	205	3
– 20°C – 4°F	**330**	**300**	**280**	**250**	**220**	**200**	**3**
– 10°C 14°F	320	290	270	240	220	190	3
0°C 32°F	310	290	260	240	210	190	3
10°C 50°F	300	280	250	230	210	180	3
20°C 70°F	290	270	240	220	200	180	3

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7565 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.

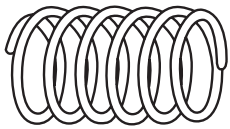
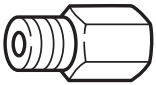
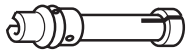
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9747 PRM)

PARTS TO BE INSTALLED

1	2	3
		
A01D1OQ	A01C2CQ	A01C2DQ

1.	414 7628 00	Spring	Green/Violet	(1)
2.	404 1011 00	Main jet	290	(1)
	404 1004 00	Main jet	270	(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)
3.	404 1590 00	Needle jet	P-1 (480)	(2)

1997 - FORMULA 500/500 DELUXE

HIGH ALTITUDE KIT (P/N 861 7565 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/Green 415 0154 00	←	Green/Violet 414 7628 00	←	←	←	1
Ramp	417 0052 81	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	4200	←	4600	←	←	←	—
Maximum RPM ± 100	7750	←	←	←	←	←	—

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	7.0 15.4	←	←	←	←	←
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.

1997 - FORMULA 500/500 DELUXE

▼ 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		310 290	290 270	270 250	240 230	220 210	200 190	PTO MAG
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		1.50	←	1.25	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-3 (480)	←	←	←	P-1 (480)	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.85	1.9	2.0	2.1	2.15	—

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	330 310	310 290	290 270	260 250	240 230	220 210	PTO MAG
– 30°C – 20°F	320 300	300 280	280 260	250 240	230 220	210 200	PTO MAG
– 20°C – 4°F	**310 290**	**290 270**	**270 250**	**240 230**	**220 210**	**200 190**	**PTO MAG**
– 10°C 14°F	300 280	280 260	260 240	230 220	210 200	190 180	PTO MAG
0°C 32°F	290 270	270 250	250 230	220 210	200 190	180 170	PTO MAG
10°C 50°F	280 260	260 240	240 220	210 200	190 180	170 160	PTO MAG
20°C 70°F	270 250	250 230	230 210	200 190	180 170	160 150	PTO MAG

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

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7564 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.

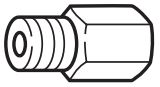
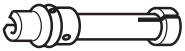
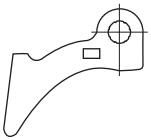
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9711 PRM)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A01C2DQ	 A01D18Q

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 1122 00	Main jet	180	(1)
	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)
2.	404 1491 00	Needle jet	Q-4 (480)	(2)
3.	417 0052 89	Ramp	289	(3)

1997 - FORMULA 583

HIGH ALTITUDE KIT (P/N 861 7564 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/Blue 415 0349 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	4100	←	←	4200	←	←	—
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	7.0 15.4	←	←	←	←	←
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.

1997 - FORMULA 583

▼ 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		280 270	250 240	230 220	210 200	190 180	170 160	PTO MAG
Jet needle		6BGY15	←	←	←	←	←	2
Needle position		4	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	←	2.0	1.75	1.5	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-6 (480)	←	←	Q-4 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.0	2.10	2.20	2.60	2.70	2.80	—

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	310 300	280 270	250 240	230 220	210 200	170 180	PTO MAG
– 30°C – 20°F	300 290	270 260	240 230	220 210	200 190	180 170	PTO MAG
– 20°C – 4°F	**280 270**	**250 240**	**230 220**	**210 200**	**190 180**	**170 160**	**PTO MAG**
– 10°C 14°F	270 260	240 230	220 210	200 190	180 170	160 150	PTO MAG
0°C 32°F	260 250	230 220	210 200	190 180	170 160	155 145	PTO MAG
10°C 50°F	250 240	220 210	200 190	180 170	160 155	145 135	PTO MAG
20°C 70°F	240 230	210 200	190 185	170 160	150 145	135 130	PTO MAG

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

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HIGH ALTITUDE KIT
(P/N 861 7572 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.

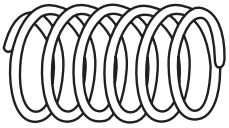
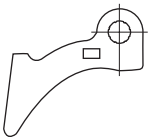
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9712 PRM)

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01D18Q	 A00A3JQ

1. 414 7628 00 Spring (1)
2. 417 0052 85 Ramp (3)
3. 417 0043 03 Pin (3)

1997 - GRAND TOURING SE

HIGH ALTITUDE KIT (P/N 861 7572 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/Pink 414 9163 00	←	Green/Violet 414 7628 00	←	←	←	1
Ramp	417 0052 86	←	417 0052 85	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	3600	←	4800	←	←	←	—
Maximum RPM ± 100	8500	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
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.

1997 - 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

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		350	←	←	←	←	←	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		2.25	←	←	←	←	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-7 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.40	1.50	1.70	1.80	1.90	2.00	—

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	←	←	←	←	←	3
– 30°C – 20°F	350	←	←	←	←	←	3
– 20°C – 4°F	**350**	←	←	←	←	←	**3**
– 10°C 14°F	350	←	←	←	←	←	3
0°C 32°F	350	←	←	←	←	←	3
10°C 50°F	350	←	←	←	←	←	3
20°C 70°F	350	←	←	←	←	←	3

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

Additional Information: Unscrew Rave Valve cover approximately three (3) turns.

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7574 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.

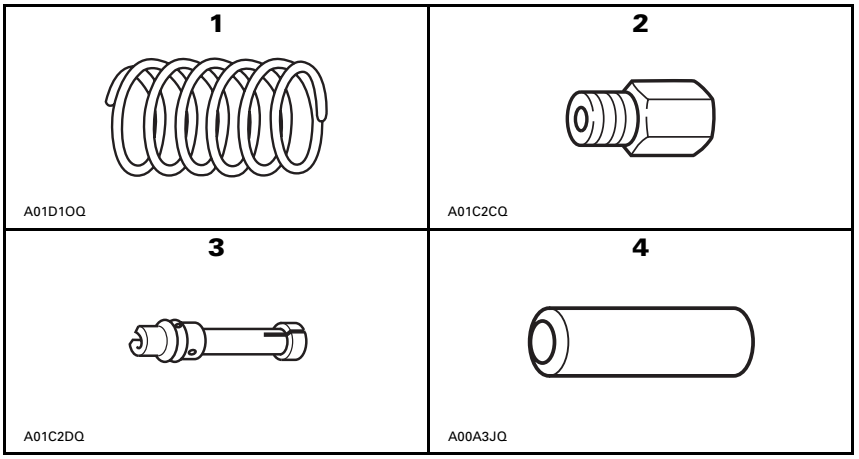
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9747 PRM)

PARTS TO BE INSTALLED



1.	414 7682 00	Spring		(1)
2.	404 1011 00	Main Jet	290	(1)
	404 1004 00	Main Jet	270	(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)
3.	404 1312 00	Needle Jet	P-2 (480)	(2)
4.	417 0043 03	Pin		(3)

1997 - GRAND TOURING 500

HIGH ALTITUDE KIT (P/N 861 7574 00)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet/Violet 414 8179 00	←	Green/Blue 414 7682 00	←	←	←	1
Ramp	414 0052 28	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	3500	←	4400	←	←	←	—
Maximum RPM ± 100	7800	←	←	←	←	←	—

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7	7.0	←	←	←	←	←
	lb ± 1.5	15.4					
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Gearing \ Altitude	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.

1997 - 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		330 310	310 290	290 270	260 250	240 230	220 210	PTO MAG
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		1.125	←	←	1.00	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-4 (480)	←	←	P-2 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	1.90	1.95	2.00	2.10	2.20	—

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	350 330	330 310	310 290	280 270	260 250	240 230	PTO MAG
– 30°C – 20°F	340 320	320 300	290 280	270 260	250 240	230 220	PTO MAG
– 20°C – 4°F	**330 310**	**310 290**	**290 270**	**260 250**	**240 230**	**220 210**	**PTO MAG**
– 10°C 14°F	320 300	300 280	280 260	250 240	230 220	210 200	PTO MAG
0°C 32°F	310 290	290 270	270 250	240 230	220 210	200 190	PTO MAG
10°C 50°F	300 280	280 260	260 240	230 220	210 200	190 180	PTO MAG
20°C 70°F	290 270	270 250	250 230	220 210	200 190	180 170	PTO MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7573 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.

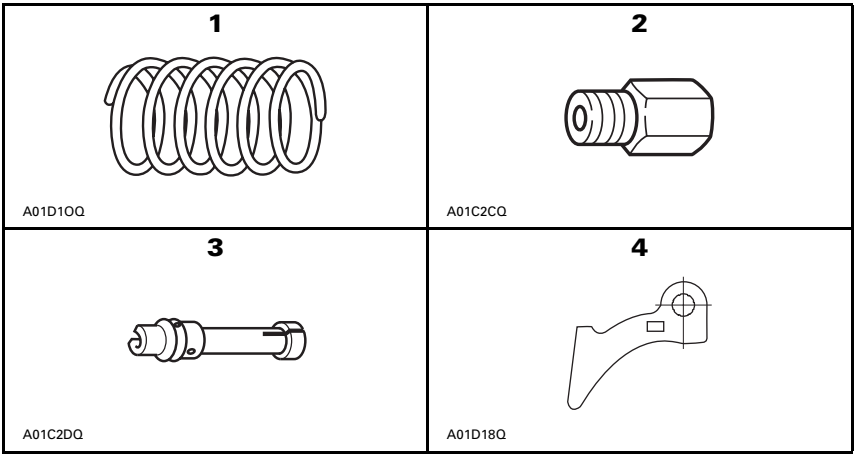
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9712 PRM)

PARTS TO BE INSTALLED



1.	414 9495 00	Spring		(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)
	404 1182 00	Main jet	160	(1)
3.	404 1491 00	Needle jet	Q-4 (480)	(2)
4.	417 0052 89	Ramp	289	(3)

1997 - GRAND TOURING 583

HIGH ALTITUDE KIT (P/N 861 7573 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/Blue 414 6894 00	←	←	Violet/Pink 414 9495 00	←	←	1
Ramp	417 0052 85	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	4200	←	←	—
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 414 5589 00	←	←	←	←	←
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.

1997 - GRAND TOURING 583

▼ 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		280 270	250 240	230 220	210 200	190 180	170 160	PTO MAG
Jet needle		6BGY15	←	←	←	←	←	2
Needle position		4	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	←	2.0	1.75	1.50	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-6 (480)	←	←	Q-4 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.00	2.10	2.20	2.60	2.70	2.80	—

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	310 300	280 270	250 240	230 220	210 200	190 180	PTO MAG
– 30°C – 20°F	300 290	270 260	240 230	220 210	200 190	180 170	PTO MAG
– 20°C – 4°F	**280 270**	**250 240**	**230 220**	**210 200**	**190 180**	**170 160**	**PTO MAG**
– 10°C 14°F	270 260	240 230	220 210	200 190	180 170	160 150	PTO MAG
0°C 32°F	260 250	230 220	210 200	190 180	170 160	155 145	PTO MAG
10°C 50°F	250 240	220 210	200 190	180 170	160 155	145 135	PTO MAG
20°C 70°F	240 230	210 200	190 185	170 160	150 145	135 130	PTO MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7559 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.

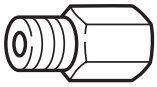
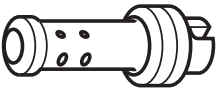
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9712 PRM)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A01C2EQ	 A00A3JQ

1.	404 1060 00	Main jet	350	(3)
	404 1013 00	Main jet	320	(3)
	404 1011 00	Main jet	290	(3)
	404 1006 00	Main jet	260	(3)
	404 1189 00	Main jet	230	(3)
2.	404 1210 00	Pilot jet	60	(3)
3.	417 0043 03	Pin		(3)

1997 - MACH Z

HIGH ALTITUDE KIT (P/N 861 7559 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	417 0052 86	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8300	←	←	←	←	←	—

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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50	←	←	←	←	←

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.

1997 - 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		380	350	320	290	260	230	3
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		4.00	3.50	3.00	←	2.50	2.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-4 (327)	←	←	←	←	←	3
Float level	mm	20	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	1.40	1.60	1.80	2.00	2.20	—

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	370	340	300	270	240	3
– 30°C – 20°F	390	360	330	300	270	240	3
– 20°C – 4°F	**380**	**350**	**320**	**290**	**260**	**230**	**3**
– 10°C 14°F	370	340	310	280	250	220	3
0°C 32°F	360	330	300	270	250	220	3
10°C 50°F	350	320	290	260	240	210	3
20°C 70°F	340	310	290	260	230	200	3

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7560 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.

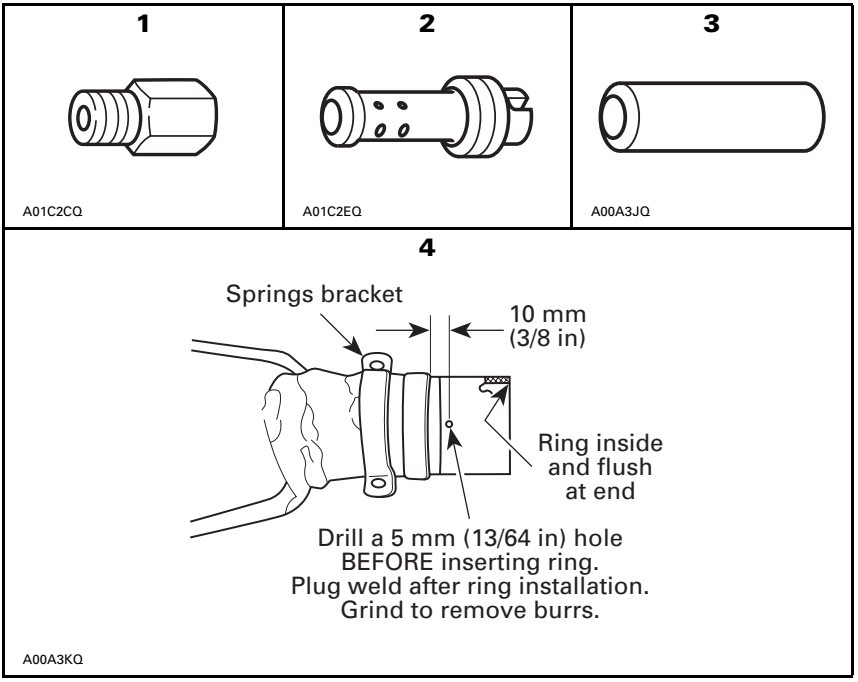
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9712 PRM)

PARTS TO BE INSTALLED



1.	404 1060 00	Main jet	350	(3)
	404 1013 00	Main jet	320	(3)
	404 1011 00	Main jet	290	(3)
	404 1006 00	Main jet	260	(3)
	404 1189 00	Main jet	230	(3)
2.	404 1210 00	Pilot jet	60	(3)
3.	417 0043 03	Pin		(3)
4.	514 0967 00	Restriction ring		(3)

1997 - MACH Z LT

HIGH ALTITUDE KIT (P/N 861 7560 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	417 0052 86	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8300	←	←	←	←	←	—

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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50	←	←	←	←	←

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.

1997 - 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		380	350	320	290	260	230	3
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cutaway		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		4.00	3.50	3.00	←	2.50	2.00	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-4 (327)	←	←	←	←	←	3
Float level	mm	20	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	1.40	1.60	1.80	2.00	2.20	—

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	370	340	300	270	240	3
– 30°C – 20°F	390	360	330	300	270	2402	3
– 20°C – 4°F	**380**	**350**	**320**	**290**	**260**	**230**	**3**
– 10°C 14°F	370	340	310	280	250	220	3
0°C 32°F	360	330	300	270	250	220	3
10°C 50°F	350	320	290	260	240	210	3
20°C 70°F	340	310	290	260	230	200	3

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

Additional Information

At 2400 m, restriction ring (P/N 514 0967 00), Qty 3 must be installed.

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7561 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.

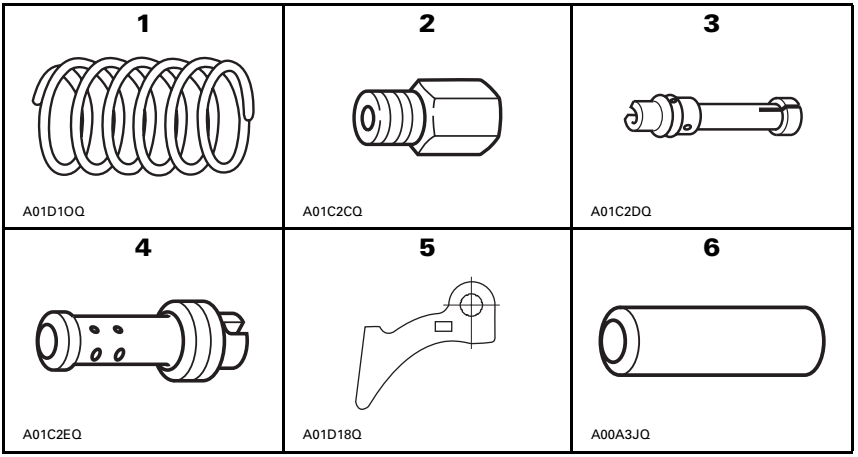
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9712 PRM)

PARTS TO BE INSTALLED



1.	414 7628 00	Spring		(1)
2.	404 1078 00	Main jet	310	(3)
	404 1004 00	Main jet	270	(3)
	404 1189 00	Main jet	230	(3)
	404 1190 00	Main jet	190	(3)
	404 1209 00	Main jet	150	(3)
3.	404 1573 00	Needle jet	P-5 480	(3)
4.	404 1581 00	Pilot jet	65	(3)
5.	417 0052 85	Ramp		(3)
6.	470 0043 03	Pin		(3)

HIGH ALTITUDE KIT (P/N 861 7561 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/Violet 414 7628 00	←	←	←	1
Ramp	417 0052 86	←	417 0052 85	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	4500	←	4800	←	←	←	—
Maximum RPM ± 100	8500	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50	←	←	←	←	←

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.

Additional Information: Unscrew Rave Valve covers approximately three (3) turns.

1997 - MACH 1

▼ 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		350	310	270	230	190	150	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	←	3	←	←	—
Slide cutaway		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	65	←	←	3
Air screw		2.25	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-7 (480)	←	←	P-5 (480)	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.40	1.50	1.70	1.80	1.90	2.00	—

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	370	330	290	250	210	170	3
– 30°C – 20°F	360	320	280	240	200	160	3
– 20°C – 4°F	**350**	**310**	**270**	**230**	**190**	**150**	**3**
– 10°C 14°F	340	300	260	220	180	140	3
0°C 32°F	330	290	250	210	170	130	3
10°C 50°F	320	280	240	200	160	120	3
20°C 70°F	310	270	230	190	150	110	3

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7571 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.

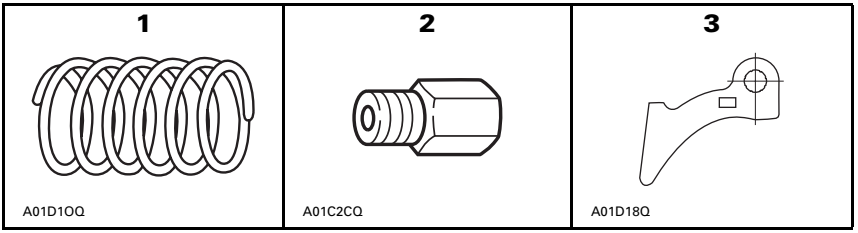
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9711 PRM)

PARTS TO BE INSTALLED



1.	414 6894 00	Spring	Blue/Blue	(1)
2.	404 1195 00	Main jet	185	(1)
	404 1192 00	Main jet	175	(1)
	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)
3.	417 0052 84	Ramp	284	(3)

HIGH ALTITUDE KIT (P/N 861 7571 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/Green 414 8177 00	←	Blue/Blue 414 6894 00	←	←	←	1
Ramp	417 0052 89	←	417 0052 84	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	←	←	←	—
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	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	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.

1997 - MX Z 440

▼ 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		205 195	195 185	185 175	170 160	160 150	150 140	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		35	←	←	←	←	←	2
Air screw		1.5	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	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	220 210	210 200	200 190	185 175	175 165	165 155	PTO MAG
– 30°C – 20°F	210 200	200 190	190 180	175 165	165 155	155 145	PTO MAG
– 20°C – 4°F	**205 195**	**195 185**	**185 175**	**170 160**	**160 150**	**150 140**	**PTO MAG**
– 10°C 14°F	200 190	190 180	180 170	165 155	155 145	145 135	PTO MAG
0°C 32°F	195 185	185 175	175 165	160 150	150 140	140 130	PTO MAG
10°C 50°F	185 175	175 165	165 155	150 140	140 130	135 125	PTO MAG
20°C 70°F	175 165	165 155	155 145	145 135	135 125	130 120	PTO MAG

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

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7570 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.

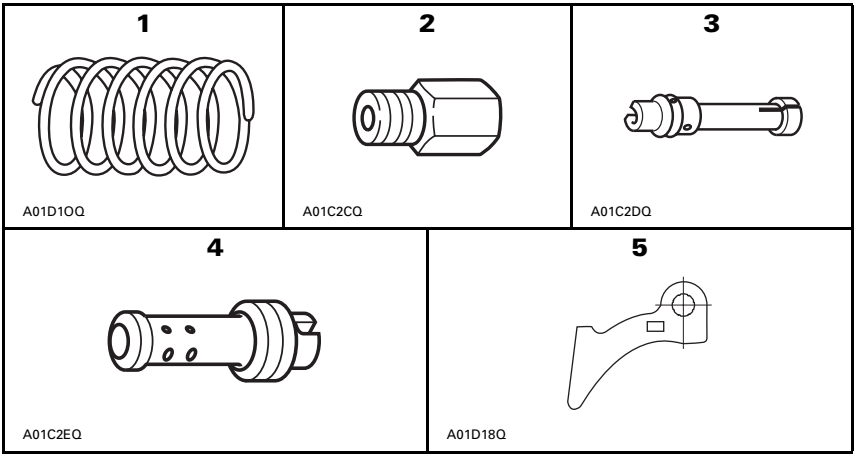
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9711 PRM)

PARTS TO BE INSTALLED



1.	414 7569 00	Spring	Green/Pink	(1)
2.	404 1189 00	Main jet	230	(1)
	404 1112 00	Main jet	220	(1)
	404 1123 00	Main jet	200	(1)
	404 1190 00	Main jet	190	(1)
	404 1195 00	Main jet	185	(1)
	404 1192 00	Main jet	175	(1)
	404 1238 00	Main jet	170	(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.	417 0052 89	Ramp	289	(3)

1997 - MX-Z 440 LC

HIGH ALTITUDE KIT (P/N 861 7570 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	417 0052 83	←	417 0052 89	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0053 03	←	←	←	←	←	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	7.0 15.4	←	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	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.

1997 - MX-Z 440 LC

▼ 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		240 210	230 200	220 190	200 170	185 155	175 145	PTO MAG
Jet needle		6FJ43	←	←	←	←	←	2
Needle position		2	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	50	←	←	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 ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.85	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	260 230	250 220	240 210	220 200	200 175	195 165	PTO MAG
– 30°C – 20°F	250 220	240 210	230 200	210 180	195 165	185 155	PTO MAG
– 20°C – 4°F	**240 210**	**230 200**	**220 190**	**200 170**	**185 155**	**175 145**	**PTO MAG**
– 10°C 14°F	230 200	220 190	210 180	190 160	175 145	165 125	PTO MAG
0°C 32°F	220 190	210 180	200 170	180 150	165 135	155 125	PTO MAG
10°C 50°F	210 180	200 170	190 160	170 140	155 125	145 115	PTO MAG
20°C 70°F	170 200	190 160	180 150	160 130	145 115	135 105	PTO MAG

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

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7569 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.

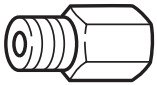
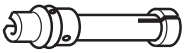
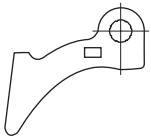
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A01C2DQ	 A01D18Q

1.	404 1002 00	Main Jet	240	(1)
	404 1189 00	Main Jet	230	(1)
	404 1191 00	Main Jet	210	(1)
	404 1190 00	Main Jet	190	(1)
	404 1238 00	Main Jet	170	(1)
	404 1209 00	Main Jet	150	(1)
2.	404 1335 00	Needle jet	AA-0 (224)	(2)
3.	417 0052 89	Ramp	289	(3)

1997 - MX-Z 583

HIGH ALTITUDE KIT (P/N 861 7569 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	417 0052 86	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	4400	←	←	4500	←	←	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 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7	7.0	←	←	←	←	←
	lb ± 1.5	15.4					
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		280 260	260 240	230 210	210 190	190 170	170 150	PTO MAG
Jet needle		7ECY1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.0	←	←	←	1.75	1.5	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (224)	←	←	AA-0 (224)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.0	2.10	2.20	2.60	2.70	2.80	—

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	310 290	280 260	250 230	230 210	210 190	190 170	PTO MAG
– 30°C – 20°F	290 270	270 250	240 220	220 200	200 180	180 160	PTO MAG
– 20°C – 4°F	**280 260**	**260 240**	**230 210**	**210 190**	**190 170**	**170 150**	**PTO MAG**
– 10°C 14°F	270 250	250 230	220 200	200 180	180 160	160 145	PTO MAG
0°C 32°F	250 230	240 220	210 190	190 170	170 155	150 135	PTO MAG
10°C 50°F	240 220	230 210	200 170	180 160	160 145	145 130	PTO MAG
20°C 70°F	230 210	220 190	190 160	170 150	155 135	135 120	PTO MAG

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

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HIGH ALTITUDE KIT
(P/N 861 7568 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.

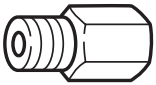
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED

1	2
 A01C2CQ	 A00A3JQ

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)
	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 1122 00	Main Jet	180	(1)
2.	417 0043 03	Pin		(3)

1997 - MX-Z 670

HIGH ALTITUDE KIT (P/N 861 7568 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	417 0052 86	←	←	←	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 04	←	←	417 0043 03	←	←	3
Engagement RPM ± 100	3800	←	←	4500	←	←	3
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 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
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	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	220 200	200 180	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
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	1700	←	←	←	←	←	—
Idle throttle valve position	mm	2.10	2.15	2.25	2.40	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	320 290	300 270	280 250	260 250	240 220	220 200	PTO MAG
– 30°C – 20°F	310 280	290 260	270 240	250 220	230 210	210 190	PTO MAG
– 20°C – 4°F	**300 270**	**280 250**	**260 230**	**240 210**	**220 200**	**200 180**	**PTO MAG**
– 10°C 14°F	290 260	270 240	250 220	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 250	260 230	240 210	220 190	200 180	180 170	PTO MAG
10°C 50°F	270 240	250 220	230 200	210 190	200 180	180 170	PTO MAG
20°C 70°F	260 240	240 210	220 200	200 180	180 170	170 160	PTO MAG

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

BOMBARDIER
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HIGH ALTITUDE KIT
(P/N 861 7581 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.

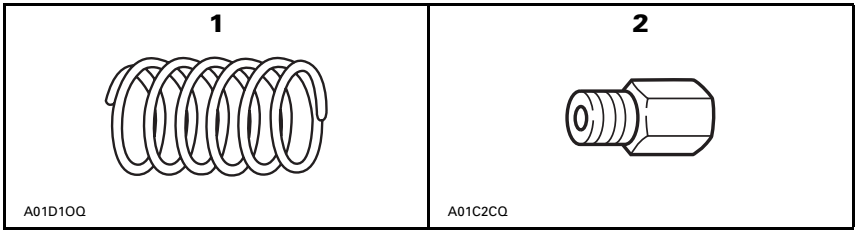
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9711 PRM)

PARTS TO BE INSTALLED



1.	414 6915 00	Spring	Red/Blue	(1)
2.	404 1112 00	Main jet	220	(1)
	404 1123 00	Main jet	200	(1)
	404 1122 00	Main jet	180	(1)
	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)

1997 - SKANDIC SWT

HIGH ALTITUDE KIT (P/N 861 7581 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/Yellow 414 8175 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	417 0051 46	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	2900	←	←	2800	←	←	—
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	6.0 13.2	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

1997 - SKANDIC SWT

▼ 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	220	200	180	170	160	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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

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	240	220	195	190	180	1
– 30°C – 20°F	240	230	210	190	180	170	1
– 20°C – 4°F	**230**	**220**	**200**	**180**	**170**	**160**	**1**
– 10°C 14°F	220	210	190	175	165	155	1
0°C 32°F	210	200	180	170	160	150	1
10°C 50°F	200	190	170	160	155	145	1
20°C 70°F	190	180	160	150	150	140	1

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7580 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.

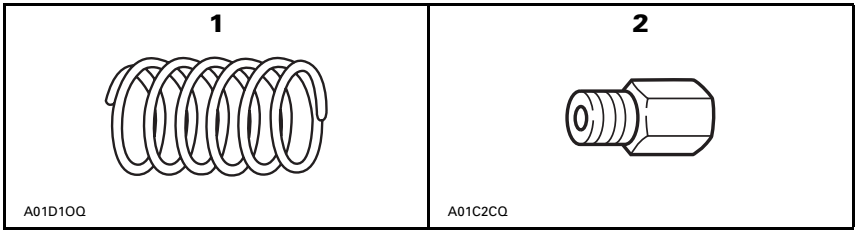
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9711 PRM)

PARTS TO BE INSTALLED



1.	414 6895 00	Spring	Blue/Yellow	(1)
2.	404 1112 00	Main jet	220	(1)
	404 1123 00	Main jet	200	(1)
	404 1122 00	Main jet	180	(1)
	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)

1997 - SKANDIC WT

HIGH ALTITUDE KIT (P/N 861 7580 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 8178 00	←	Blue/Yellow 414 6895 00	←	←	←	1
Ramp	417 0051 46	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3300	←	←	←	←	←	—
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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

1997 - 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		230	220	200	180	170	160	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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	18	1.9	—

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	240	220	195	190	180	1
– 30°C – 20°F	240	230	210	190	180	170	1
– 20°C – 4°F	**230**	**220**	**200**	**180**	**170**	**160**	**1**
– 10°C 14°F	220	210	190	175	165	155	1
0°C 32°F	210	200	180	170	160	150	1
10°C 50°F	200	190	170	160	155	145	1
20°C 70°F	190	180	160	150	150	140	1

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7600 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.

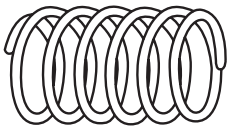
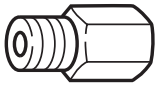
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9747 PRM)

PARTS TO BE INSTALLED

1	2
 A01D1OQ	 A01C2CQ

1.	1.	414 9163 00	Spring	Blue/Pink(1)
2.	404 1004 00	Main jet	270	(1)
	404 1006 00	Main jet	260	(1)
	404 1003 00	Main jet	250	(1)
	404 1002 00	Main jet	240	(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)

1997 - SKANDIC WT LC

HIGH ALTITUDE KIT (P/N 861 7600 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/Orange 420 6390 00	←	Blue/Pink 414 9163 00	←	←	←	1
Ramp	417 0052 90	←	←	←	←	←	3
Calibration screw position	2	3	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3400	←	←	←	←	←	—
Maximum RPM ± 100	6800	←	←	←	←	←	—

DRIVEN PULLEY

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

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.

1997 - SKANDIC WT LC

▼ 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		260 280	250 270	240 260	190 210	180 200	170 190	PTO MAG
Jet needle		6DH4	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cutaway		2.0	←	←	←	←	←	2
Pilot jet		30	←	←	←	←	←	2
Air screw		1.0 .75	←	←	.5 .5	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1900	←	←	←	←	←	—
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	280 300	270 290	260 280	210 230	200 220	190 210	PTO MAG
– 30°C – 20°F	270 290	260 280	250 270	200 220	190 210	180 200	PTO MAG
– 20°C – 4°F	**260 280**	**250 270**	**240 260**	**190 210**	**180 200**	**170 190**	**PTO MAG**
– 10°C 14°F	250 270	240 260	230 250	180 200	170 190	160 180	PTO MAG
0°C 32°F	240 260	230 250	220 240	170 190	160 180	150 170	PTO MAG
10°C 50°F	230 250	220 240	210 230	160 180	150 170	140 160	PTO MAG
20°C 70°F	220 240	210 230	200 220	150 170	140 160	130 150	PTO MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7579 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.

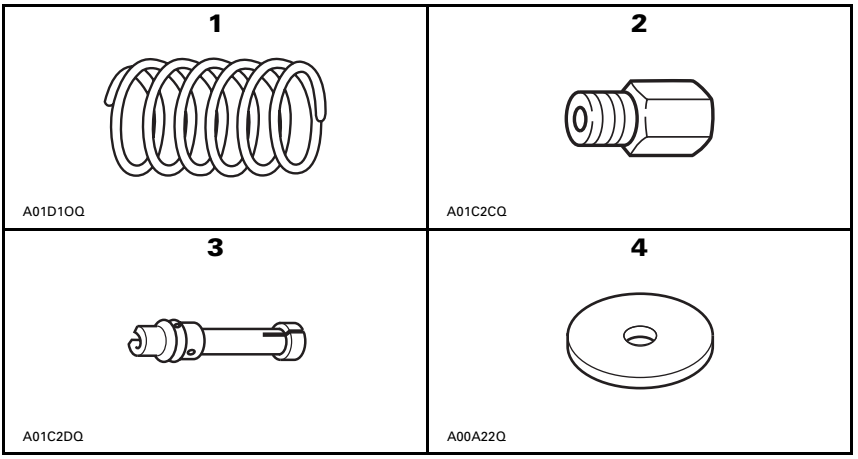
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

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	O-8 (159)	(2)
4.	417 1144 00	Weight		(15)

1997 - SKANDIC 380

HIGH ALTITUDE KIT (P/N 861 7579 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 on Violet 417 1185 00	←	Red/Blue on Violet 417 1184 00	←	←	←	1
Block	417 1181 00	←	←	←	←	←	1
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 1145 00	←	←	←	←	←	x 3
Engagement RPM ± 100	2900	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 5058 00	←	←	←	←	←
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.

1997 - 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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	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 ± 200	1650	←	←	←	←	←	—
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.

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7578 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.

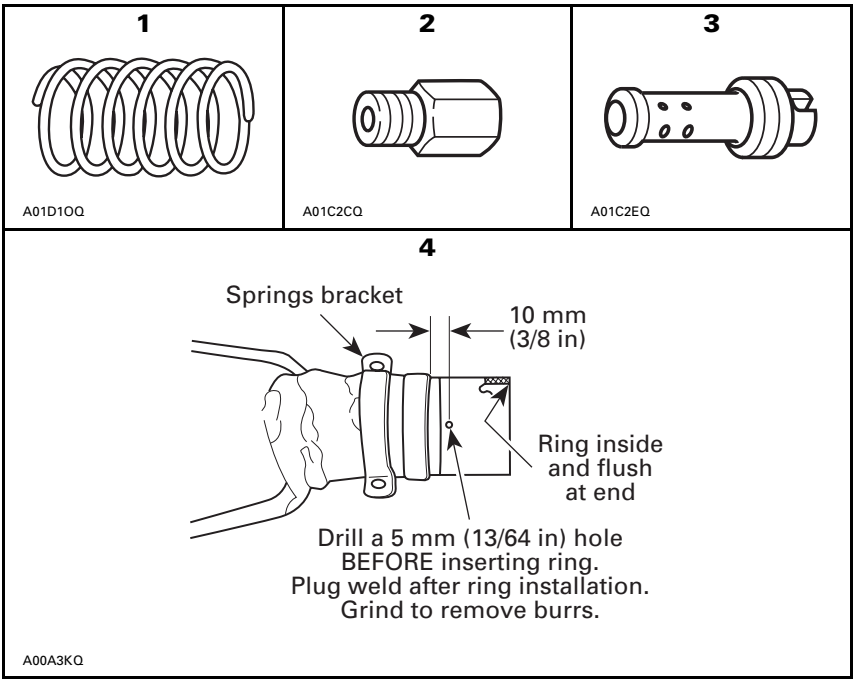
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED



1.	414 6915 00	Spring	Red/Blue	(1)
2.	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)

1997 - SKANDIC 500

HIGH ALTITUDE KIT (P/N 861 7578 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/Yellow 414 8175 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	417 0052 84	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	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 414 5058 00	←	←	←	←	←
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.

1997 - SKANDIC 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		180 170	170 160	160 150	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		1.875	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	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	200 190	190 180	175 165	165 155	155 145	140 130	PTO MAG
– 30°C – 20°F	190 180	180 170	165 155	155 145	145 135	135 125	PTO MAG
– 20°C – 4°F	**180 170**	**170 160**	**160 150**	**150 140**	**140 130**	**130 120**	**PTO MAG**
– 10°C 14°F	170 160	160 150	155 145	145 135	135 125	125 115	PTO MAG
0°C 32°F	165 155	155 145	150 140	140 130	130 120	120 110	PTO MAG
10°C 50°F	160 150	150 140	140 130	130 120	125 115	115 105	PTO MAG
20°C 70°F	155 145	145 135	135 125	125 115	120 110	110 100	PTO MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7577 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.

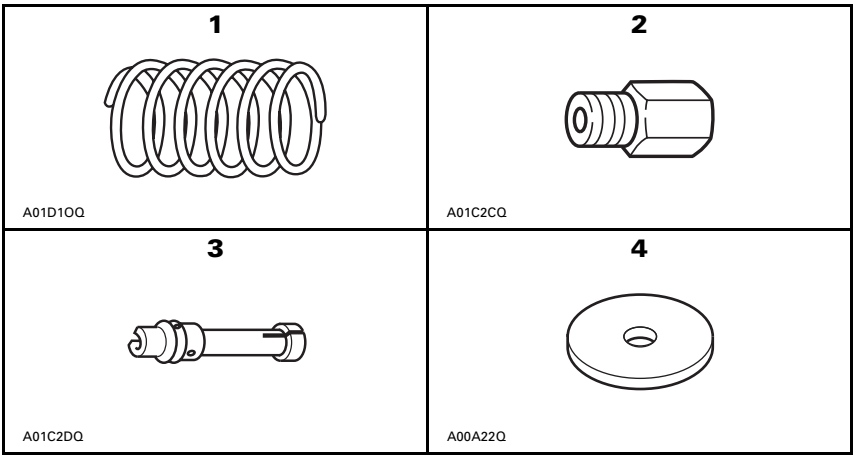
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED



1.	417 1184 00	Spring	Violet	(1)
2.	404 1249 00	Main jet	130	(2)
	404 1248 00	Main jet	125	(2)
	404 1304 00	Main jet	135	(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)

1997 - TOURING E/E LT

HIGH ALTITUDE KIT (P/N 861 7577 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 on Violet 417 1185 00	←	Red/Blue on Violet 417 1184 00	←	←	←	1
Spring (Touring E)	Red/Blue on Violet 417 1184 00	←	←	←	←	←	1
Block	417 1181 00	←	←	←	←	←	1
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 1145 00	←	←	←	←	←	x 3
Engagement RPM ± 100	(E LT) 2900 (E) 3100	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		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.

1997 - 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 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 ± 200	1650	←	←	←	←	←	–
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.

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7576 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.

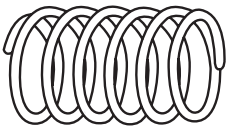
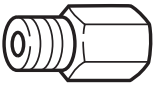
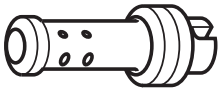
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01C2CQ	 A01C2EQ

1.	414 9163 00	Spring	Blue/Pink	(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)

1997 - TOURING LE

HIGH ALTITUDE KIT (P/N 861 7576 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	←	Blue/Pink 415 9163 00	←	←	←	1
Ramp	417 0052 27	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3500	←	3700	←	←	←	—
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.

1997 - 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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.6	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.

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7575 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.

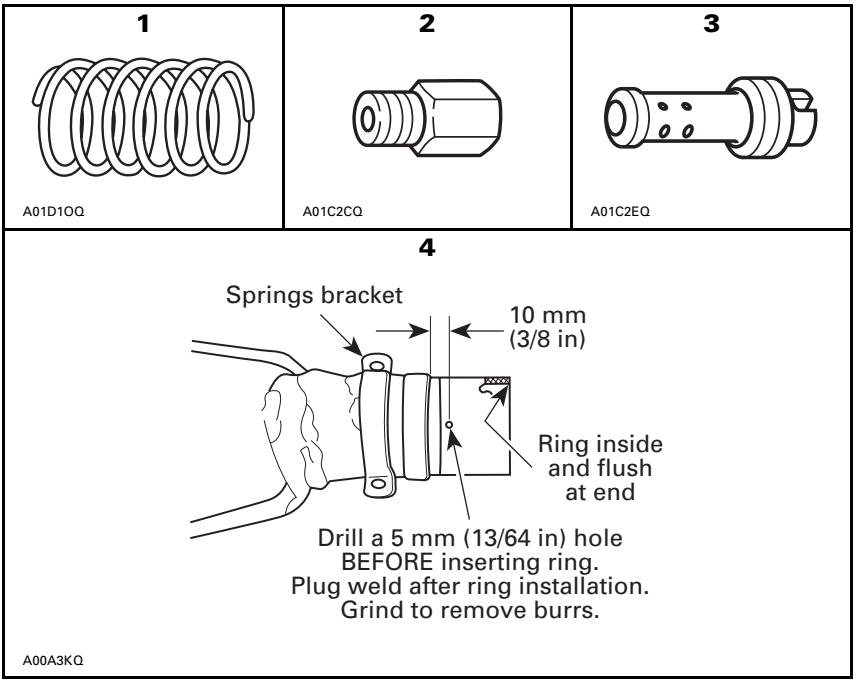
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

PARTS TO BE INSTALLED



1.	414 6915 00	Spring	Red/Blue	(1)
2.	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)

1997 - TOURING SLE

HIGH ALTITUDE KIT (P/N 861 7575 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/Yellow 414 8175 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	415 0052 84	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	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.

1997 - 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		180 170	170 160	160 150	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		1.875	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	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	200 190	190 180	175 165	165 155	155 145	140 130	PTO MAG
– 30°C – 20°F	190 180	180 170	165 155	155 145	145 135	135 125	PTO MAG
– 20°C – 4°F	**180 170**	**170 160**	**160 150**	**150 140**	**140 130**	**130 120**	**PTO MAG**
– 10°C 14°F	170 160	160 150	155 145	145 135	135 125	125 115	PTO MAG
0°C 32°F	165 155	155 145	150 140	140 130	130 120	120 110	PTO MAG
10°C 50°F	160 150	150 140	140 130	130 120	125 115	115 105	PTO MAG
20°C 70°F	155 145	145 135	135 125	125 115	120 110	110 100	PTO MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7538 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.

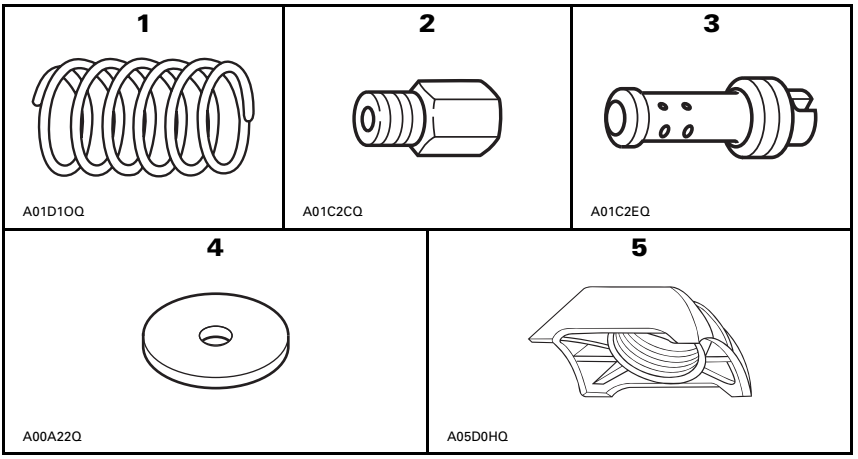
High Altitude Technical Data sheets (P/N 484 0648 00) containing technical information pertaining to carburetor jetting, transmission calibration, chain case gearing, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered 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-9710 PRM)

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		(3)

1997 - 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	417 1145 00	←	0	←	←	←	x 2
Engagement RPM ± 100	3100	←	←	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		White 414 5099 00	←	←	←	←	←
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.

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▼ 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 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1200	←	←	←	←	←	—
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.