◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

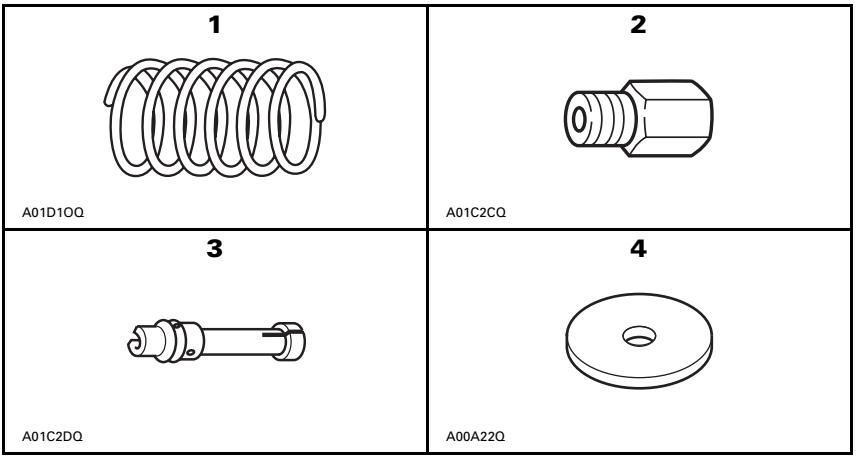
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9815 MD)

PARTS TO BE INSTALLED



1.	417 1184 00	Spring	Red/Blue on 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)

1998 - SKANDIC 380

HIGH ALTITUDE KIT (P/N 861 7638 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
Spring	Green/Green on Violet 417 0095 00	←	Red/Blue on Violet 417 1184 00	←	←	←
Block	417 1181 00	←	←	←	←	←
Weight	Qty 3 x 1 417 1204 00	←	Qty 3 x 5 417 1144 00	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 1145 00	←	←	←	←	←
Engagement RPM ± 100	2500	←	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 414 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

1998 - 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.

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		140	135	130	125	115	110	2
Jet needle		6DP9	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	.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

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
– 40°C – 40°F	150	145	140	135	125	120	2
– 30°C – 20°F	145	140	135	130	120	115	2
– 20°C – 4°F	**140**	**135**	**130**	**125**	**115**	**110**	**2**
– 10°C 14°F	135	130	125	120	110	105	2
0°C 32°F	130	125	120	115	105	100	2
10°C 50°F	125	120	115	110	100	95	2
20°C 70°F	120	115	110	105	95	90	2

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

◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

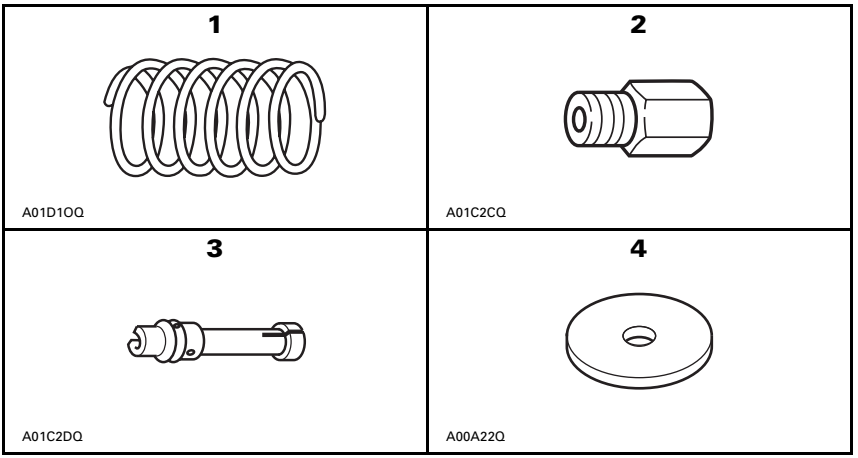
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9816 MD)

PARTS TO BE INSTALLED



1.	417 1184 00	Spring	Red/Blue on 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)

1998-TOURING E

HIGH ALTITUDE KIT (P/N 861 7636 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
Spring	Green/Green on Violet 417 0095 00	←	Red/Blue on Violet 417 1184 00	←	←	←
Block	417 1181 00	←	←	←	←	←
Weight	Qty 3 x 1 417 1204 00	←	Qty 3 x 5 417 1144 00	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 1145 00	←	←	←	←	←
Engagement RPM ± 100	2500	←	3100	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

1998-TOURING E

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		140	135	130	125	115	110	2
Jet needle		6DP9	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	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.

◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

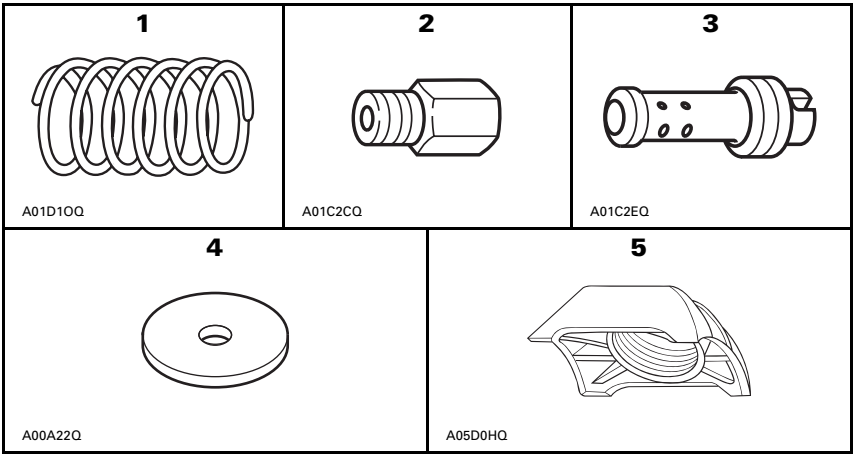
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9817 MD)

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)

1998-TUNDRA II LT

HIGH ALTITUDE KIT (P/N 861 7639 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
Spring	Turquoise 417 1159 00	←	Blue 417 1156 00	←	←	←
Block	Qty 3 x 1 417 1143 00	←	Qty 3 x 1 417 1157 00	←	←	←
Weight	---	←	Qty 3 x 3 417 1158 00	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 1 ←
Capsule	417 1145 00	←	←	←	←	←
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 13.0	←	←	←
Cam angle	° (degrees)	37.8 504 0813 00	←	←	←	←	←

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

1998-TUNDRA II LT

▼ CAUTION

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

CARBURATION

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 cut-away		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.

◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

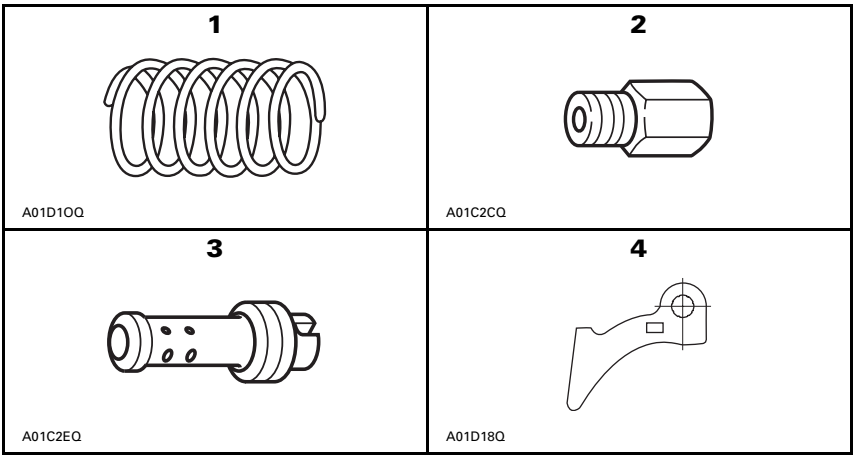
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9818 MD)

PARTS TO BE INSTALLED



1.	414 7421 00	Spring	Yellow/Green	(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.	417 0052 92	Ramp		(3)

HIGH ALTITUDE KIT (P/N 861 7637 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
Spring	Red/Yellow 414 8175 00	←	Yellow/Green 414 7421 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

1998 - 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.

CARBURATION

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 cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.88	←	←	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	—

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	
-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.

◆ WARNING

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▼ CAUTION

The following modifications and adjustments apply only for altitudes above 600 m (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

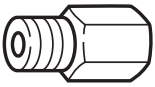
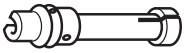
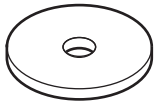
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9819 MD)

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)

1998-FORMULA S/S ELECTRIC

HIGH ALTITUDE KIT (P/N 861 7620 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
Spring	Red/Blue on Violet 417 1184 00	←	←	←	←	←
Block	Qty 3 x 1 417 1181 00	←	←	←	←	←
Weight	Qty 3 x 1 417 1204 00	←	Qty 3 x 5 417 1144 00	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 1145 00	←	←	←	←	←
Engagement RPM ± 100	3500	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

1998-FORMULA S/S ELECTRIC

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		140	135	130	125	115	110	2
Jet needle		6DP9	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	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.

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BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7635 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 carburation 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 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, 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.

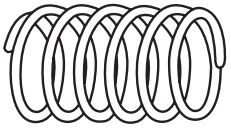
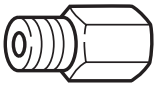
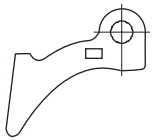
CARBURETOR JETTING

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 "Carburation" 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-9825 MD)

415 1258 00

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01C2CQ	 A01D18Q

1.	414 7421 00	Spring	Yellow/Green	(1)
2.	404 1122 00	Main jet	180	(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 92	Ramp	292	(3)

1998-TOURING LE

HIGH ALTITUDE KIT (P/N 861 7635 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
Spring	Red/Blue 414 6915 00	←	Yellow/Green 414 7421 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	2	3	3	4	5	6
Pin	417 0043 09	←	←	←	←	←
Engagement RPM ± 100	2900	←	3000	←	←	←
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 414 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

1998-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.

CARBURATION

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		200 190	190 180	180 170	170 160	160 150	150 140	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	1	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		35	←	←	←	←	←	2
Air screw		1.50	←	←	1.00	←	←	—
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	1,9	—

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	
– 40°C – 40°F	210 200	200 190	190 180	180 170	175 165	165 155	PTO MAG
– 30°C – 20°F	205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
– 20°C – 4°F	**200 190**	**190 180**	**180 170**	**170 160**	**160 150**	**150 140**	**PTO MAG**
– 10°C 14°F	195 185	185 175	175 165	165 155	155 145	145 135	PTO MAG
0°C 32°F	190 180	180 170	170 160	160 150	150 140	140 130	PTO MAG
10°C 50°F	180 170	170 160	160 150	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.

◆ 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 carburation charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

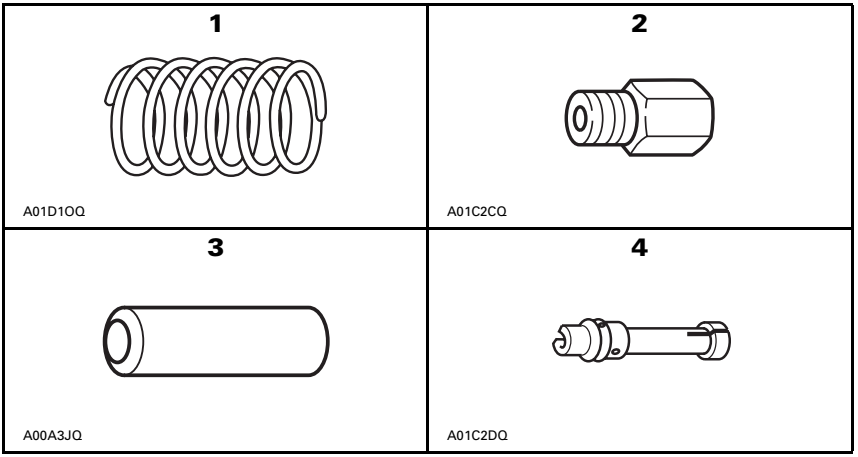
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9834 MD)

PARTS TO BE INSTALLED



1.	414 7421 00	Spring	Yellow/Green	(1)
2.	404 1011 00	Main jet	290	(2)
	404 1005 00	Main jet	280	(1)
	404 1006 00	Main jet	260	(2)
	404 1003 00	Main jet	250	(1)
	404 1002 00	Main jet	240	(2)
	404 1189 00	Main jet	230	(1)
	404 1191 00	Main jet	210	(2)
	404 1123 00	Main jet	200	(1)
	404 1190 00	Main jet	190	(2)
	404 1122 00	Main jet	180	(1)
3.	417 0043 09	Pin		(3)
4.	404 1332 00	Needle jet	P-0 (480)	(3)
	404 1618 01	Needle jet	O-9 (480)	(3)

1998 - GRAND TOURING 700

HIGH ALTITUDE KIT (P/N 861 7631 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
Spring	Blue/Violet 414 8178 00	←	←	Yellow/Green 414 7421 00	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 1409 00	←	←	←	←	←

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

1998 - GRAND TOURING 700

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet		310 300 310	290 280 290	260 250 260	240 230 240	210 200 210	190 180 190	PTO CTR MAG
Jet needle		6DEH5 Qty 3 x 1	←	←	←	←	←	—
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	—
Air screw		2.50	1.75	1.50	1.25	1.00	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-1 (480)	←	←	P-0 (480)	←	O-9 (480)	—
	Starter jet	1.50	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	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	
– 40°C – 40°F	330 320 330	300 290 300	280 270 280	250 240 250	230 220 230	200 190 200	PTO CTR MAG
– 30°C – 20°F	320 310 320	290 280 290	270 260 270	240 230 240	220 210 220	195 185 195	PTO CTR MAG
– 20°C – 4°F	**310 300 310**	290 280 290	260 250 260	240 230 240	210 200 210	190 180 190	**PTO CTR MAG**
– 10°C 14°F	300 290 300	280 270 280	250 240 250	230 220 230	200 195 200	180 175 180	PTO CTR MAG
0°C 32°F	290 280 290	270 260 270	240 230 240	220 210 220	195 190 195	175 170 175	PTO CTR MAG
10°C 50°F	270 260 270	250 240 250	230 220 230	210 200 210	185 175 185	160 155 160	PTO CTR MAG
20°C 70°F	260 250 260	240 230 240	220 210 220	200 190 200	180 170 180	155 150 155	PTO CTR MAG

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

Additional Information: Unscrew Rave Valve cover approximately 3 turns.

◆ 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 carburation charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

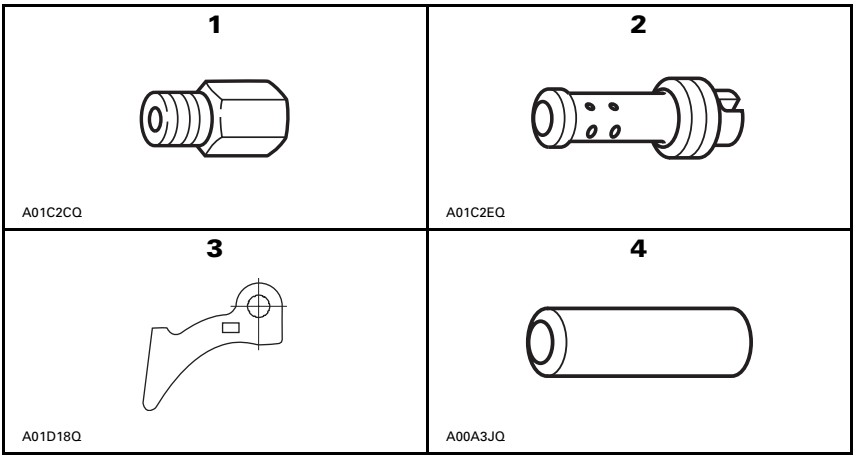
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9840 MD)

PARTS TO BE INSTALLED



1.	404 1005 00	Main jet	280	(3)
	404 1003 00	Main jet	250	(3)
	404 1189 00	Main jet	230	(3)
	404 1123 00	Main jet	200	(3)
	404 1122 00	Main jet	180	(3)
2.	404 1210 00	Pilot jet	60	(3)
3.	417 0052 85	Ramp	285	(3)
4.	417 0043 09	Pin		(3)

HIGH ALTITUDE KIT (P/N 861 7610 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
Spring	Green/Violet 414 7628 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	Qty 3 x 1 417 0052 85	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
Engagement RPM ± 100	4200	←	4700	←	←	←
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 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50 504 1483 00	←	←	←	←	←

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

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

1998 - 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.

CARBURATION

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	280	250	230	200	180	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	3	←	←	←2	—
Slide cut-away		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		2.00	←	←	1.50	←	1.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-9 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

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	320	290	270	240	220	190	3
– 30°C – 20°F	310	290	260	240	210	190	3
– 20°C – 4°F	**300**	**280**	**250**	**230**	**200**	**180**	**3**
– 10°C 14°F	290	270	240	220	200	170	3
0°C 32°F	280	260	240	210	190	170	3
10°C 50°F	270	250	230	210	180	160	3
20°C 70°F	260	240	220	200	180	160	3

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

◆ WARNING

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

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

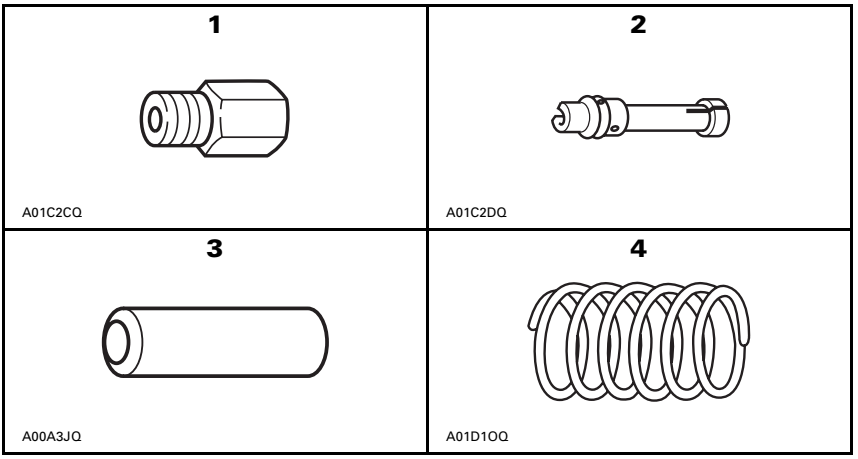
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9841 MD)

PARTS TO BE INSTALLED



1.	404 1011 00	Main jet	290	(2)
	404 1005 00	Main jet	280	(1)
	404 1006 00	Main jet	260	(2)
	404 1003 00	Main jet	250	(1)
	404 1002 00	Main jet	240	(2)
	404 1189 00	Main jet	230	(1)
	404 1191 00	Main jet	210	(2)
	404 1123 00	Main jet	200	(1)
	404 1190 00	Main jet	190	(2)
	404 1122 00	Main jet	180	(1)
2.	404 1332 00	Needle jet	P-0 (480)	(3)
	404 1618 01	Needle jet	O-9 (480)	(3)
3.	417 0043 09	Pin		(3)
4.	415 0349 00	Spring	Violet/Blue	(1)

1998-FORMULA III 700

HIGH ALTITUDE KIT (P/N 861 7611 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
Spring	Green/Blue 414 7682 00	←	←	Violet/Blue 415 0349 00	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
Engagement RPM ± 100	4200	←	←	4100	←	←
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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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

1998 - FORMULA III 700

▼ CAUTION

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

CARBURATION

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		310 300 310	290 280 290	260 250 260	240 230 240	210 200 210	190 180 190	PTO CTR MAG
Jet needle		6DEH5	←	←	←	←	←	3
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	3
Air screw		2.50	1.75	1.50	1.25	1.00	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-1 (480)	←	←	P-0 (480)	←	O-9 (480)	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	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	
– 40°C – 40°F	330/ 320/330	300/ 290/300	280/ 270/280	250/ 240/250	230/ 220/230	200/ 190/200	PTO/ CTR/MAG
– 30°C – 20°F	320/ 310/320	290/ 280/290	270/ 260/270	240/ 230/240	220/ 210/220	195/ 185/195	PTO/ CTR/MAG
– 20°C – 4°F	**310/ 300/310**	**290/ 280/290**	**260/ 250/260**	**240/ 230/240**	**210/ 200/210**	**190/ 180/190**	**PTO/ CTR/MAG**
– 10°C 14°F	300/ 290/300	280/ 270/280	250/ 240/250	230/ 220/230	200/ 195/200	180/ 175/180	PTO/ CTR/MAG
0°C 32°F	290/ 280/290	270/ 260/270	240/ 230/240	220/ 210/220	195/ 190/195	175/ 170/175	PTO/ CTR/MAG
10°C 50°F	270/ 260/270	250/ 240/250	230/ 220/230	210/ 200/210	185/ 175/185	160/ 155/160	PTO/ CTR/MAG
20°C 70°F	260/ 250/260	240/ 230/240	220/ 210/220	200/ 190/200	180/ 170/180	155/ 150/155	PTO/ CTR/MAG

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

◆ WARNING

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

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

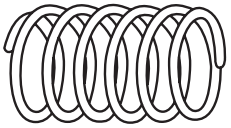
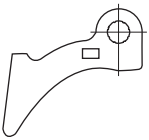
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9842 MD)

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01D18Q	 A00A3JQ

1.	414 8179 00	Spring	Violet/Violet	(1)
2.	417 0052 85	Ramp	285	(3)
3.	417 0043 09	Pin		(3)

1998 - GRAND TOURING SE

HIGH ALTITUDE KIT (P/N 861 7630 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
Spring	Blue/Pink 414 9163 00	←	Violet/Violet 414 8179 00	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	Qty 3 x 1 417 0052 85	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
Engagement RPM ± 100	3600	←	4300	←	←	←
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)	47 504 1409 00	←	←	←	←	←

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

1998 - 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.

CARBURATION

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	←	←	←	←	←	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		2.00	←	←	←	←	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-9 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

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	300	←	←	←	←	←	3
– 30°C – 20°F	300	←	←	←	←	←	3
– 20°C – 4°F	**300**	←	←	←	←	←	**3**
– 10°C 14°F	300	←	←	←	←	←	3
0°C 32°F	300	←	←	←	←	←	3
10°C 50°F	300	←	←	←	←	←	3
20°C 70°F	300	←	←	←	←	←	3

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

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

◆ 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 carburation charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

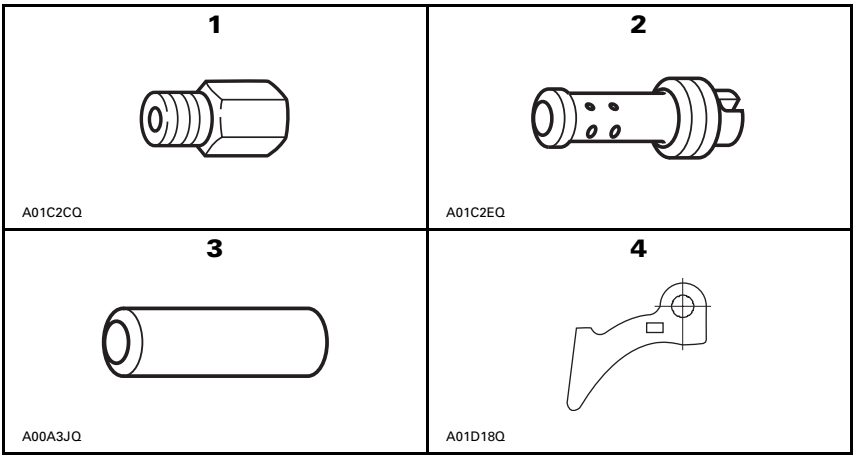
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9843 MD)

PARTS TO BE INSTALLED



1.	404 1004 00	Main jet	270	(3)
	404 1002 00	Main jet	240	(3)
	404 1112 00	Main jet	220	(3)
	404 1123 00	Main jet	200	(3)
	404 1238 00	Main jet	170	(3)
2.	404 1210 00	Pilot jet	60	(3)
3.	417 0043 09	Pin		(3)
4.	417 0052 81	Ramp	281	(3)

1998-FORMULA III 600 AND FORMULA III 600 LT

HIGH ALTITUDE KIT (P/N 861 7612 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
Spring	Green/Violet 414 7628 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 85	←	Qty 3 x 1 417 0052 81	←	←	←
Calibration screw position	4	5	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
Engagement RPM ± 100	3800	←	4500	←	←	←
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)	50 504 0961 00	←	←	←	←	←

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

1998-FORMULA III 600 AND FORMULA III 600 LT

▼ CAUTION

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

CARBURATION

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		290	270	240	220	200	170	3
Jet needle		6DEY4	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	60	←	←	3
Air screw		2.00	←	←	1.50	←	1.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-0 (286)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

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	310	290	270	240	220	190	3
– 30°C – 20°F	300	280	250	230	200	180	3
– 20°C – 4°F	**290**	**270**	**240**	**220**	**200**	**170**	**3**
– 10°C 14°F	280	260	240	210	190	170	3
0°C 32°F	270	250	230	210	180	160	3
10°C 50°F	260	240	220	200	180	160	3
20°C 70°F	250	230	210	190	170	150	3

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

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BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7609 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 carburation 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 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, 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.

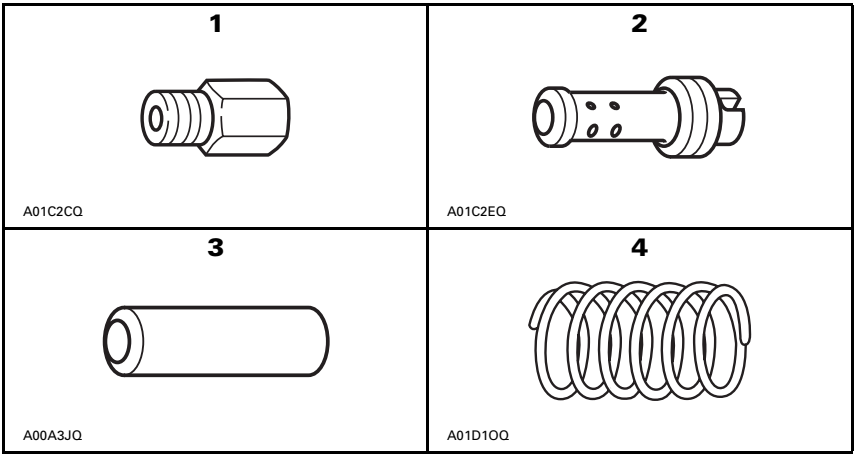
CARBURETOR JETTING

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 "Carburation" 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-9844 MD)

415 1274 21

PARTS TO BE INSTALLED



1.	404 1078 00	Main jet	310	(1)
	404 1012 00	Main jet	300	(2)
	404 1011 00	Main jet	290	(1)
	404 1005 00	Main jet	280	(2)
	404 1003 00	Main jet	250	(3)
	404 1112 00	Main jet	220	(3)
	404 1123 00	Main jet	200	(3)
2.	404 1453 00	Pilot jet	60	(3)
3.	417 0043 09	Pin		(3)
4.	414 7682 00	Spring	Green/Blue	(1)

1998 - MACH Z/MACH Z LT

HIGH ALTITUDE KIT (P/N 861 7609 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
Spring	Violet/Green 415 0154 00	←	Green/Blue 414 7682 00	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
Engagement RPM ± 100	3900	←	4200	←	←	←
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 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50 504 1483 00	←	←	←	←	←

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

1998 - MACH Z/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.

CARBURATION

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		330 340 330	300 310 300	280 290 280	250 250 250	220 220 220	200 200 200	PTO CTR MAG
Jet needle		8ABY1-40	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		4.00	←	3.50	←	3.00	2.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-3 (327)	←	←	←	←	←	3
Float level	mm	20.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

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	
– 40°C – 40°F	350/ 360/350	320/ 330/320	300/ 310/300	270/ 270/270	240/ 240/240	210/ 210/210	PTO/ CTR/MAG
– 30°C – 20°F	340/ 350/340	310/ 320/310	290/ 300/290	260/ 260/260	230/ 230/230	205/ 205/205	PTO/ CTR/MAG
– 20°C – 4°F	**330/ 340/330**	**300/ 310/300**	**280/ 290/280**	**250/ 250/250**	**220/ 220/220**	**200/ 200/200**	**PTO/ CTR/MAG**
– 10°C 14°F	320/ 330/320	290/ 300/290	270/ 280/270	240/ 240/240	220/ 220/220	190/ 190/190	PTO/ CTR/MAG
0°C 32°F	310/ 320/310	290/ 300/290	260/ 270/260	240/ 240/240	210/ 210/210	190/ 190/190	PTO/ CTR/MAG
10°C 50°F	300/ 310/300	280/ 290/280	250/ 260/250	230/ 230/230	210/ 210/210	180/ 180/180	PTO/ CTR/MAG
20°C 70°F	290/ 300/290	270/ 280/270	240/ 250/240	220/ 220/220	200/ 200/200	170/ 170/170	PTO/ CTR/MAG

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

◆ WARNING

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

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

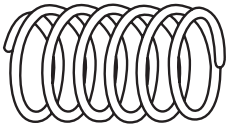
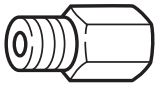
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9845 MD)

PARTS TO BE INSTALLED

1	2
 A01D1OQ	 A01C2CQ

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)

1998-SKANDIC SWT

HIGH ALTITUDE KIT (P/N 861 7643 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
Spring	Red/Yellow 414 8175 00	←	Red/Blue 414 6915 00	←	←	←
Ramp	Qty 3 x 1 417 0051 46	←	←	←	←	←
Calibration screw position	4	5	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	2300	←	←	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 A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.0 13.2	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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

1998 - 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.

CARBURATION

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 cut-away		3.0	←	←	←	←	←	1
Pilot jet		25	←	←	←	←	←	1
Air screw		1.5	←	←	0.75	←	←	—
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 7642 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 carburation 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 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, 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.

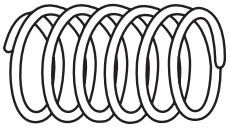
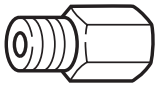
CARBURETOR JETTING

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 "Carburation" 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-9846 MD)

415 1274 27

PARTS TO BE INSTALLED

1	2
	
A01D1OQ	A01C2CQ

1.	414 8177 00	Spring	Blue/Green	(1)
2.	404 1123 00	Main jet	200	(2)
	404 1190 00	Main jet	190	(2)
	404 1122 00	Main jet	180	(2)
	404 1238 00	Main jet	170	(2)
	404 1182 00	Main jet	160	(2)

1998 - SKANDIC WT

HIGH ALTITUDE KIT (P/N 861 7642 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
Spring	Yellow/Orange 414 6897 00	←	←	Blue/Green 414 8177 00	←	←
Ramp	Qty 3 x 1 417 0052 90	←	←	←	←	←
Calibration screw position	4	5	6	2	3	4
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	2800	←	←	3100	←	←
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 A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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

1998 - 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.

CARBURATION

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		210	200	190	180	170	160	2
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.5	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-4 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

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	230	220	210	200	190	180	2
– 30°C – 20°F	220	210	200	190	180	170	2
– 20°C – 4°F	**210**	**200**	**190**	**175**	**165**	**155**	**2**
– 10°C 14°F	205	190	180	170	160	150	2
0°C 32°F	200	190	180	165	155	145	2
10°C 50°F	190	180	170	160	150	140	2
20°C 70°F	180	170	160	150	140	130	2

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7641 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 carburation 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 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, 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.

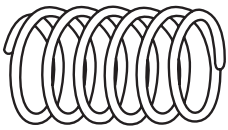
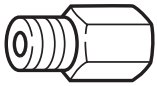
CARBURETOR JETTING

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 "Carburation" 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-9847 MD)

415 1274 26

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01C2CQ	 A01C2CQ

1.	414 6898 00	Spring	Red/Red	(1)
2.	404 1189 00	Main jet	230	(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)
	404 1209 00	Main jet	150	(1)
3.	417 0043 09	Pin		(3)

1998-SKANDIC WT LC

HIGH ALTITUDE KIT (P/N 861 7641 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
Spring	Yellow/Blue 414 8180 00	←	Red/Red 414 6898 00	←	←	←
Ramp	Qty 3 x 1 417 0052 90	←	←	←	←	←
Calibration screw position	4	5	3	4	5	6
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
Engagement RPM ± 100	2500	←	←	←	←	←
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		Blue A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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

1998 - 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.

CARBURATION

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		250 220	230 200	210 180	200 170	190 160	180 150	PTO MAG
Jet needle		6DH4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		30	←	←	←	←	←	2
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-2 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
– 40°C – 40°F	270 240	250 220	230 200	220 190	210 180	200 170	PTO MAG
– 30°C – 20°F	260 230	240 210	220 190	210 180	200 170	190 160	PTO MAG
– 20°C – 4°F	**250 220**	**230 200**	**210 180**	**200 170**	**190 160**	**180 150**	**PTO MAG**
– 10°C 14°F	240 210	220 190	200 170	190 160	180 150	170 140	PTO MAG
0°C 32°F	230 200	210 180	190 160	180 150	170 140	160 130	PTO MAG
10°C 50°F	220 190	200 170	180 150	170 140	160 130	150 120	PTO MAG
20°C 70°F	210 180	190 160	170 140	160 130	150 120	140 110	PTO MAG

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

◆ WARNING

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

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

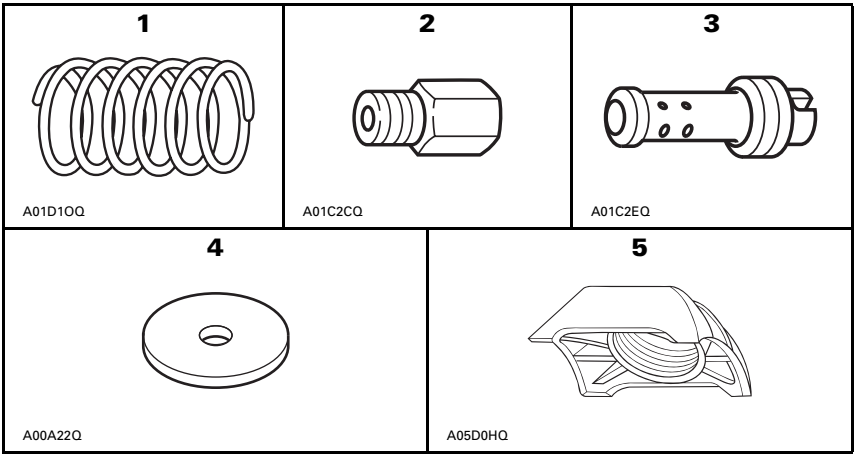
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9859 MD)

PARTS TO BE INSTALLED



1.	417 1185 00	Spring	Yellow/Green	(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)

1998-TUNDRA R

HIGH ALTITUDE KIT (P/N 861 7640 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
Spring	Turquoise 417 1159 00	←	Yellow/Green 417 1185 00	←	←	←
Block	Qty 3 x 1 417 1143 00	←	Qty 3 x 1 417 1157 00	←	←	←
Weight	—	←	Qty 3 x 3 417 1158 00	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 1 ←
Capsule	Qty 2 x 3 417 1145 00	←	←	←	←	←
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		Yellow 415 0943 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position1 0.00	←	←	←	←	←
Cam angle	° (degrees)	37.8 417 1241 00	←	←	←	←	←

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

1998-TUNDRA R

▼ CAUTION

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

CARBURATION

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 cut-away		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	35	←	←	1
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		O-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.

◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

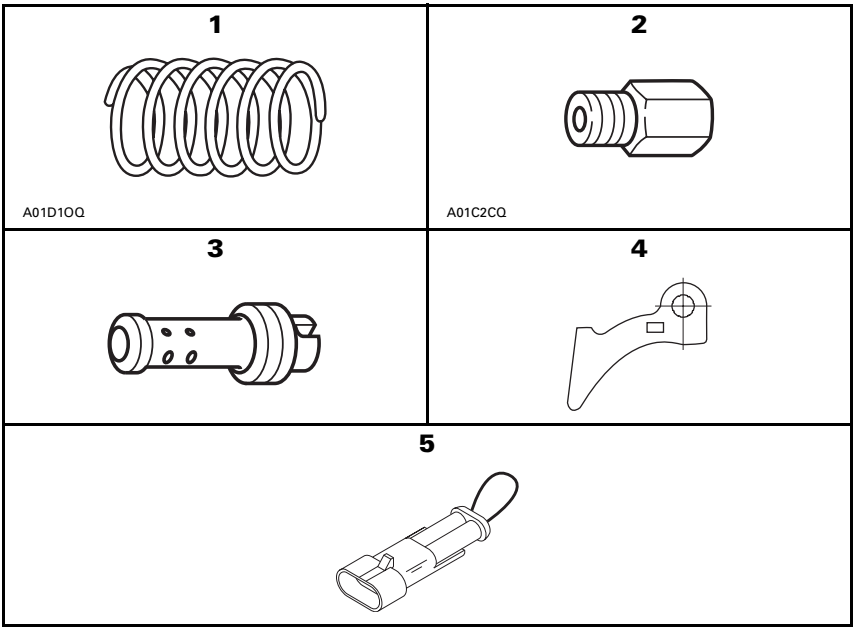
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9860 MD)

PARTS TO BE INSTALLED



1.	414 7421 00	Spring	Yellow/Green	(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.	417 0052 92	Ramp	292	(3)
5.	515 1747 00	Reverse connector		(1)

1998-TOURING SLE

HIGH ALTITUDE KIT (P/N 861 7634 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
Spring	Red/Yellow 414 8175 00	←	Yellow/Green 414 7421 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 0928 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position 1 0.00	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 1228 00	←	←	←	←	←

ELECTRONIC REVERSE

	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector	515 1748 00	←	←	←	515 1747 00	←

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

1998 - 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.

CARBURATION

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	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.88	←	←	0.750	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	1550	←	←	—
Idle throttle valve position	mm	1.5	1.8	2.1	2.4	2.5	2.6	—

MAIN JET CHART

Calibration \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
– 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.

◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

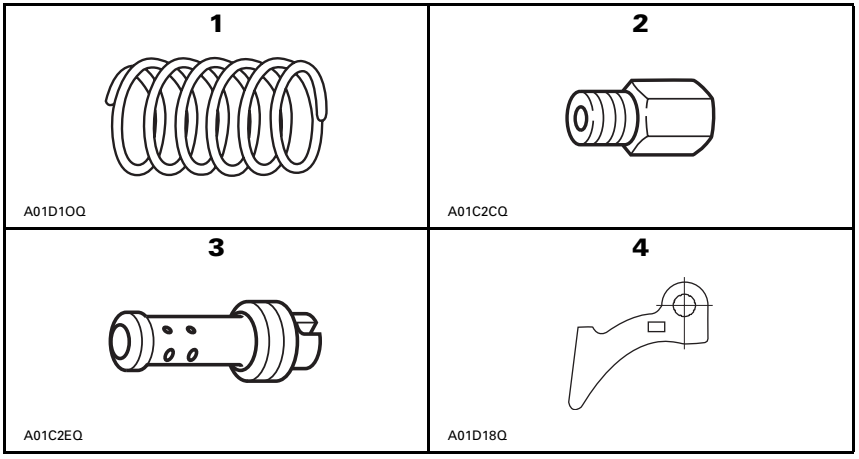
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9862 MD)

PARTS TO BE INSTALLED



1.	414 6895 00	Spring	Blue/Yellow	(1)
2.	404 1238 00	Main jet	170	(1)
	404 1182 00	Main jet	160	(1)
	404 1209 00	Main jet	150	(1)
	404 1266 00	Main jet	140	(1)
	404 1249 00	Main jet	130	(1)
	404 1239 00	Main jet	120	(1)
3.	404 1094 00	Pilot jet	45	(2)
4.	417 0052 92	Ramp	292	(3)

1998-FORMULA SL

HIGH ALTITUDE KIT (P/N 861 7619 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
Spring	Yellow/Red 414 9930 00	←	Blue/Yellow 414 6895 00	←	←	←
Ramp	Qty 3 417 0052 91	←	Qty 3 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	3300	←	3600	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

1998-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 cut-away		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	—

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	
– 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.

◆ 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 carburation charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

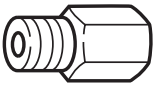
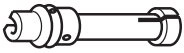
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9863 MD)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A01C2DQ	 A00A3JQ

1.	404 1011 00	Main jet	290	(1)
	404 1004 00	Main jet	270	(1)
	404 1006 00	Main jet	260	(1)
	404 1002 00	Main jet	240	(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 1192 00	Main jet	175	(1)
2.	404 1335 00	Needle jet	AA-0 (224)	(2)
	404 1554 00	Needle jet	AA-1 (224)	(2)
3.	417 0043 09	Pin		(3)

1998 - FORMULA Z 670

HIGH ALTITUDE KIT (P/N 861 7614 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
Spring	Violet/Yellow 415 0153 00	←	←	←	←	←
Ramp	417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
Engagement RPM ± 100	3800	←	←	4500	←	←
Maximum RPM ± 100	7700	←	←	←	←	←

DRIVEN PULLEY

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

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft. ←

1998 - FORMULA Z 670

▼ CAUTION

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

CARBURATION

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	260 240	240 220	210 200	190 175	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.25	←	2.00	1.75	1.50	1.25	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-3 (224)	←	←	AA-1 (224)	←	AA-0 (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	
– 40°C – 40°F	330 310	310 290	280 260	260 240	230 210	210 190	PTO MAG
– 30°C – 20°F	320 300	300 280	270 250	250 230	220 200	200 180	PTO MAG
– 20°C – 4°F	**310 290**	**290 270**	**260 240**	**240 220**	**210 200**	**190 175**	**PTO MAG**
– 10°C 14°F	300 280	280 260	250 230	230 210	200 190	185 170	PTO MAG
0°C 32°F	290 270	270 250	240 220	220 200	195 185	175 160	PTO MAG
10°C 50°F	270 250	250 240	230 210	210 195	185 175	170 155	PTO MAG
20°C 70°F	260 240	240 230	220 200	200 185	185 170	160 150	PTO MAG

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

◆ WARNING

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

▼ CAUTION

The following modifications and adjustments apply only for altitudes above 600 m (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

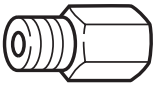
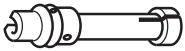
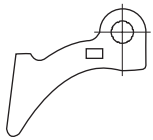
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9864 MD)

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)

1998-FORMULA Z 583

HIGH ALTITUDE KIT (P/N 861 7615 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
Spring	Violet/Blue 415 0349 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 89	←	←
Calibration screw position	3	4	5	3	4	5
Pin	417 0043 09	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft. ←

1998 - FORMULA Z 583

▼ CAUTION

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

CARBURATION

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	←	←	2	←	←	—
Slide cut-away		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	
-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	180 165	165 145	PTO MAG
0°C 32°F	250 230	240 220	210 195	195 175	175 155	155 140	PTO MAG
10°C 50°F	240 220	230 210	200 185	185 165	170 150	155 135	PTO MAG
20°C 70°F	230 210	220 190	195 175	175 160	160 145	145 130	PTO MAG

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

◆ WARNING

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

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

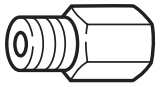
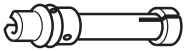
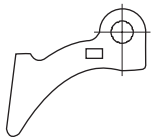
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9865 MD)

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 1194 00	Main jet	195	(1)
	404 1195 00	Main jet	185	(1)
	404 1122 00	Main jet	180	(1)
	404 1238 00	Main jet	170	(1)
2.	404 1573 00	Needle jet	P-5 (480)	(2)
	404 1315 00	Needle jet	P-4 (480)	(2)
3.	417 0052 89	Ramp	289	(3)

1998-FORMULA 583 DE LUXE

HIGH ALTITUDE KIT (P/N 861 7616 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
Spring	Violet/Blue 415 0349 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 89	←	←
Calibration screw position	3	4	5	3	4	5
Pin	417 0043 09	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

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 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft. ←

1998-FORMULA 583 DE LUXE

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 260	250 240	230 220	210 200	195 185	180 170	PTO MAG
Jet needle		6DEY4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.00	1.75	1.50	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-4 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.00	2.10	2.20	2.30	2.40	2.50	—

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	
– 40°C – 40°F	290 280	270 260	250 240	230 220	210 200	195 185	PTO MAG
– 30°C – 20°F	280 270	260 250	240 230	220 210	200 195	185 175	PTO MAG
– 20°C – 4°F	**270 260**	**250 240**	**230 220**	**210 200**	**195 185**	**175 170**	**PTO MAG**
– 10°C 14°F	260 250	240 230	220 210	200 195	180 170	155 150	PTO MAG
0°C 32°F	250 240	230 220	210 200	195 185	170 165	150 145	PTO MAG
10°C 50°F	240 230	220 210	200 195	185 180	165 160	145 140	PTO MAG
20°C 70°F	230 220	210 200	195 185	180 170	160 150	140 130	PTO MAG

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

◆ WARNING

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

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

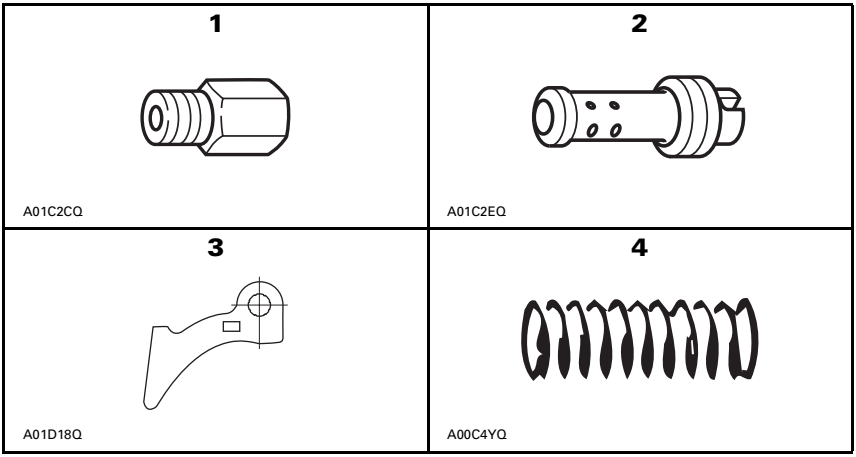
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9866 MD)

PARTS TO BE INSTALLED



➡	1.	404 1006 00	Main jet	260	(1)
		404 1002 00	Main jet	240	(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.	404 1139 00	Pilot jet	55	(2)
	3.	417 0052 81	Ramp	281	(3)
➡	4.	420 2399 46	Rave Valve spring		(2)

1998-FORMULA 500/500 DELUXE

HIGH ALTITUDE KIT (P/N 861 7618 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
Spring	Violet/Blue 415 0349 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 81	←	←
Calibration screw position	2	3	4	4	5	6
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

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

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

Additional Information: At 1800 m/6000 ft, change 2 Rave Valve springs, using P/N 420 2399 46.

1998-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.

CARBURATION

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		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		2.00	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	1.90	2.00	2.10	2.20	2.30	—

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	
– 40°C – 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
– 30°C – 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
– 20°C – 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
– 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

BOMBARDIER
snowmobiles

HIGH ALTITUDE KIT
(P/N 861 7621 00)

REVISION 1

◆ 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 carburation charts list all parts as well as modifications and adjustments needed for altitude and/or temperature changes.

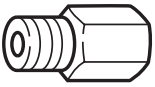
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9867 MD)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A00A3JQ	 A01C2DQ

1.	404 1011 00	Main Jet	290	(1)
	404 1004 00	Main Jet	270	(1)
	404 1006 00	Main Jet	260	(1)
	404 1002 00	Main Jet	240	(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 1192 00	Main Jet	175	(1)
2.	417 0043 09	Pin		(3)
3.	404 1554 00	Needle Jet	AA-1 (224)	(2)
	404 1335 00	Needle Jet	AA-0 (224)	(2)

HIGH ALTITUDE KIT (P/N 861 7621 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
Spring	Violet/Yellow 415 0153 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
Engagement RPM ± 100	3800	←	←	4500	←	←
Maximum RPM ± 100	7700	←	←	←	←	←

DRIVEN PULLEY

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

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft. ←

1998 - MX Z 670

▼ CAUTION

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

CARBURATION

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	260 240	240 220	210 200	190 175	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.25	—
Valve seat		1.5	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Needle jet		AA-3 (224)	←	←	AA-1 (224)	←	AA-0 (224)	2
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	
– 40°C – 40°F	330 310	310 290	280 260	260 240	230 210	210 190	PTO MAG
– 30°C – 20°F	320 300	300 280	270 250	250 230	220 200	200 180	PTO MAG
– 20°C – 4°F	**310 290**	**290 270**	**260 240**	**240 220**	**210 200**	**190 175**	**PTO MAG**
– 10°C 14°F	300 280	280 260	250 230	230 210	200 190	185 170	PTO MAG
0°C 32°F	290 270	270 250	240 220	220 200	195 185	175 160	PTO MAG
10°C 50°F	270 250	250 240	230 210	210 195	185 175	170 155	PTO MAG
20°C 70°F	260 240	240 230	220 200	200 185	185 170	160 150	PTO MAG

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

◆ WARNING

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

▼ CAUTION

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

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

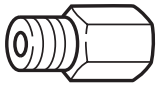
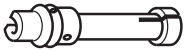
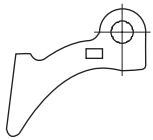
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9868 MD)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A01C2DQ	 A01D18Q

1.	404 1006 00	Main Jet	260	(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)

HIGH ALTITUDE KIT (P/N 861 7622 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
Spring	Green/Blue 414 7682 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 89	←	←
Calibration screw position	3	4	5	2	3	4
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	4400	←	←	4500	←	←
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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft. ←

▼ CAUTION

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

CARBURATION

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	←	←	2	←	←	—
Slide cut-away		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	
– 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	180 165	165 145	PTO MAG
0°C 32°F	250 230	240 220	210 195	195 175	175 155	155 140	PTO MAG
10°C 50°F	240 220	230 210	200 185	185 165	170 150	155 135	PTO MAG
20°C 70°F	230 210	220 190	195 175	175 160	160 145	145 130	PTO MAG

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

◆ WARNING

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

▼ CAUTION

The following modifications and adjustments apply only for altitudes above 600 m (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

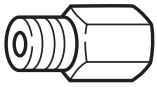
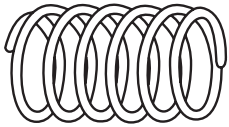
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9869 MD)

PARTS TO BE INSTALLED

1	2	3
 A01C2CQ	 A01D1OQ	 A00C4YQ

➡ 1.	404 1006 00	Main jet	260	(1)
	404 1002 00	Main jet	240	(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.	414 7682 00	Spring	Green/Blue	(1)
➡ 3.	420 2399 46	Rave Valve spring		(2)

HIGH ALTITUDE KIT (P/N 861 7623 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
Spring	Violet/Yellow 415 0153 00	←	←	Green/Blue 414 7682 00	←	←
Ramp	417 0052 81	←	←	←	←	←
Calibration screw position	2	3	4	4	5	6
Pin	417 0043 09	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	4300	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 415 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 504 0961 00	←	←	←	←	←

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

Additional Information: At 1800 m/6000 ft, change 2 Rave Valve springs, using P/N 420 2399 46.

▼ CAUTION

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

CARBURATION

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		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.5	←	←	2.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-4 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3	—

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	
– 40°C – 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
– 30°C – 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
– 20°C – 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
– 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

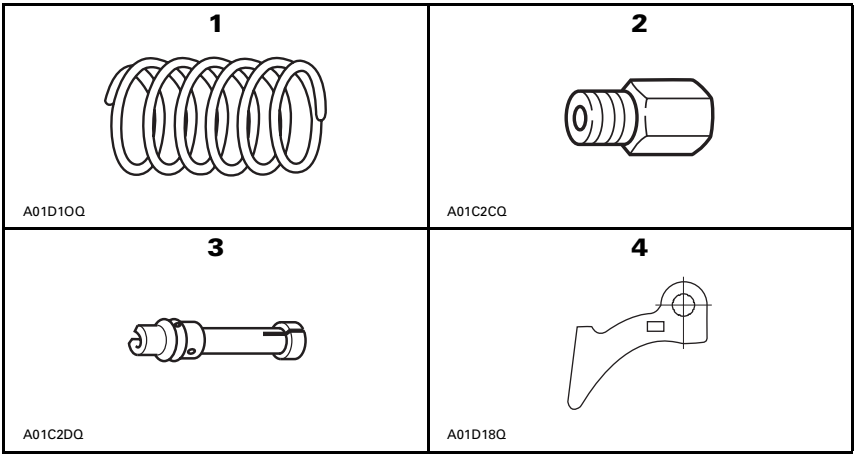
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9870 MD)

PARTS TO BE INSTALLED



1.	415 0349 00	Spring	Violet/Blue	(1)
2.	404 1003 00	Main jet	250	(1)
	404 1002 00	Main jet	240	(1)
	404 1189 00	Main jet	230	(1)
	404 1112 00	Main jet	220	(1)
	404 1191 00	Main jet	210	(1)
	404 1123 00	Main jet	200	(1)
	404 1194 00	Main jet	195	(1)
	404 1195 00	Main jet	185	(1)
	404 1122 00	Main jet	180	(1)
	404 1238 00	Main jet	170	(1)
3.	404 1573 00	Needle jet	P-5 (480)	(2)
	404 1315 00	Needle jet	P-4 (480)	(2)
4.	417 0052 89	Ramp	289	(3)

1998 - GRAND TOURING 583

HIGH ALTITUDE KIT (P/N 861 7632 00)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Orange 415 0152 00	←	←	Violet/Blue 415 0349 00	←	←	1
Ramp	Qty 3 x 1 417 0052 85	←	←	Qty 3 x 1 417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 09	←	←	←	←	←	3
Engagement RPM ± 100	3100	←	←	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	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 1409 00	←	←	←	←	←

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft. ←

1998 - 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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 260	250 240	230 220	210 200	195 185	180 170	PTO MAG
Jet needle		6DEY4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.0	1.75	1.5	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-4 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.00	2.10	2.20	2.30	2.40	2.50	—

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	
– 40°C – 40°F	290 280	270 260	250 240	230 220	210 200	195 185	PTO MAG
– 30°C – 20°F	280 270	260 250	240 230	220 210	200 195	185 175	PTO MAG
– 20°C – 4°F	**270 260**	**250 240**	**230 220**	**210 200**	**195 185**	**175 170**	**PTO MAG**
– 10°C 14°F	260 250	240 230	220 210	200 195	180 170	155 150	PTO MAG
0°C 32°F	250 240	230 220	210 200	195 185	170 165	150 145	PTO MAG
10°C 50°F	240 230	220 210	200 195	185 180	165 160	145 140	PTO MAG
20°C 70°F	230 220	210 200	195 185	180 170	160 150	140 130	PTO MAG

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

◆ WARNING

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

▼ CAUTION

The following modifications and adjustments apply only for altitudes above 600 m (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

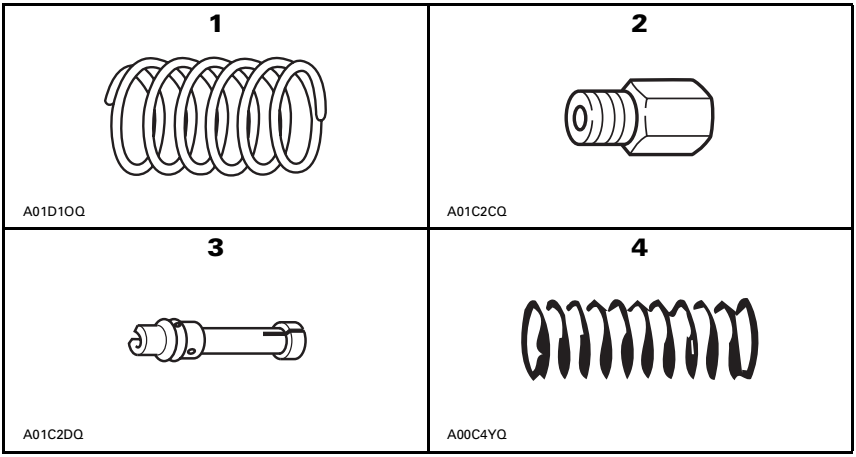
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9871 MD)

PARTS TO BE INSTALLED



1.	414 6894 00	Spring	Blue/Blue	(1)
➡ 2.	404 1006 00	Main Jet	260	(1)
	404 1002 00	Main Jet	240	(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)
3.	404 1139 00	Needle Jet	Q-3 (480)	(2)
➡ 4.	420 2399 46	Rave Valve spring		(2)

1998 - GRAND TOURING 500

HIGH ALTITUDE KIT (P/N 861 7633 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
Spring	Blue/Green 414 8177 00	←	←	Blue/Blue 414 6894 00	←	←
Ramp	417 0052 28	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	417 0043 09	←	←	←	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

Additional Information: At 1800 m/6000 ft, change 2 Rave Valve ← springs, using P/N 420 2399 46.

1998 - 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.

CARBURATION

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		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		2.0	←	←	2.25	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	←	←	←	←	←	—

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	
– 40°C – 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
– 30°C – 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
– 20°C – 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
– 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

◆ 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 (2 000 ft).

NOTE: Installation time is approximately 1.5 hours.

MODIFICATIONS AND ADJUSTMENTS

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

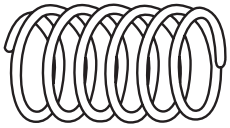
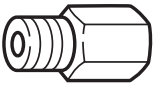
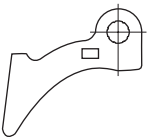
High Altitude Technical Data sheets (P/N 484 0686 00) containing technical information pertaining to carburetor jetting, transmission calibration, conversion charts and more, are available. They cover all models for the last 5 years. A convenient binder (P/N 484 0545 00) can be ordered to organize the 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 "Carburation" 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-9875 MD)

PARTS TO BE INSTALLED

1	2	3
 A01D1OQ	 A01C2CQ	 A01D18Q

1.	414 8177 00	Spring	Blue/Green	(1)
2.	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)
	404 1209 00	Main jet	150	(1)
	404 1266 00	Main jet	140	(1)
3.	417 0052 92	Ramp	292	(3)

HIGH ALTITUDE KIT (P/N 861 7625 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
Spring	Blue/Yellow 414 6895 00	←	Blue/Green 414 8177 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
Engagement RPM ± 100	3700	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 415 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 1409 00	←	←	←	←	←

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

1998 - 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.

CARBURATION

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	190 180	180 170	170 160	160 150	150 140	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		35	←	←	←	←	←	2
Air screw		1.5	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	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	1.9	—

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	
– 40°C – 40°F	210 200	200 190	190 180	180 170	175 165	165 155	PTO MAG
– 30°C – 20°F	205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
– 20°C – 4°F	**200 190**	**190 180**	**180 170**	**170 160**	**160 150**	**150 140**	**PTO MAG**
– 10°C 14°F	195 185	185 175	175 165	165 155	155 145	145 135	PTO MAG
0°C 32°F	190 180	180 170	170 160	160 150	150 140	140 130	PTO MAG
10°C 50°F	180 170	170 160	160 150	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.