

Please route to:

<input type="checkbox"/> Service	Init.	<input type="checkbox"/>
<input type="checkbox"/> Sales		<input type="checkbox"/>
<input type="checkbox"/> Parts		<input type="checkbox"/>



Date: **August 27, 2004**

Subject: **Gauges Programming**

No. **2005-1**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	Equipped with electronic gauges		All
2004			
2003			

The following gauges, available through our *Parts and Accessories Department*, require programming according to the drive sprocket ratio of the vehicle.

P/N	DESCRIPTION
515 176 226 (SDI)	Speedometer
515 176 244	Speedometer
515 176 263	Speedometer
515 176 264 (other)	Speedometer (2 in 1) ①
515 176 265 (440)	Speedometer (2 in 1) ①

① Programmable speedometer (with tach needle).

This procedure allows the use of the same gauge on different models.

Programming Procedure

- Identify the size of the drive sprocket.
- Install new speedometer or tachometer as per appropriate procedure.
- Start vehicle **OR** connect supply harness (P/N 529 035 869) and (P/N 529 035 997) to the 6-pin connector and a 12V battery.

All pilot lamp LEDs will begin to flash and word "PAUSE" will appear on LCD.

- Press "MODE" button to activate programming mode.

NOTE: In programming mode, all LEDs are off and messages "0-0", "9-9", "8-9", "10-9" (see table below) appear on the LCD one after another, each displayed for 2 seconds.

- To program drive sprocket ratio, wait for desirable ratio to be displayed, press and hold the "MODE" button at least for 2 seconds then release the button.

Selected ratio will be stored and displayed flashing.

- Shut off the vehicle **OR** disconnect supply harness.

NOTE: The ratio will be displayed for approximately 2 seconds every time the vehicle is started.

MESSAGES	SIGNIFICATION
0-0	ratio not programmed
8-9	8 teeth sprocket
9-9	9 teeth sprocket
10-9	10 teeth sprocket

Please notify all involved personnel.

Please route to :

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **September 16, 2004**

Subject: **New Crankcase Sealant**

No. **2005-2**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1999 to 2005	All	All	All

PURPOSE

A new and better sealant for crankcase mating surfaces is now recommended for all Ski-Doo engines regardless of year or model. Loctite 5910 is a silicon-based sealant being used in production beginning with model year 2005.

DESCRIPTION	PART NUMBER
Loctite 5910	293 800 081

All 2005 Ski-Doo engines have been sealed with Loctite 5910. Do not use other products to seal mating surfaces. For older engines, Loctite 515, Loctite 518, or Drei Bond sealing compound may still be used. Refer to the appropriate service manual for instructions.

NOTE: Crankcases that have been previously sealed with Loctite 515, Loctite 518, Drei Bond, or any other type of sealant, must be thoroughly cleaned prior to using Loctite 5910.

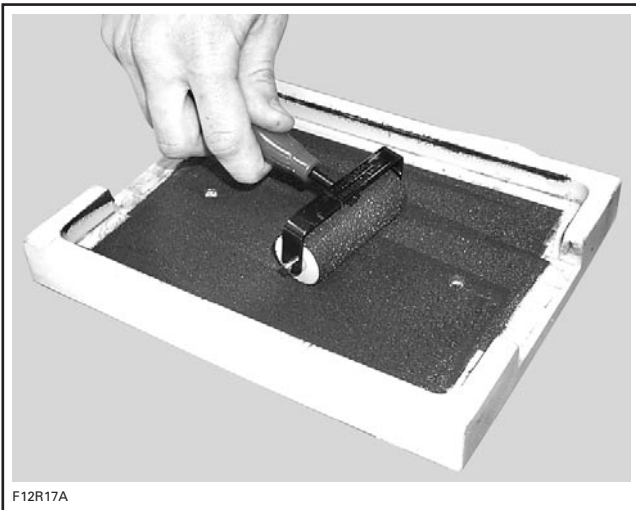
PROCEDURE

IMPORTANT: Crankcase halves must be assembled and tightened within ten minutes after the sealant has been applied. All necessary parts should be on hand before starting the procedure.

NOTE: This sealant should be applied as described to get an even application without lumps. If the roller method cannot be used, you may use your finger to distribute the sealant. (Unlike Drei Bond, Loctite 5910 will not be affected by touch.)

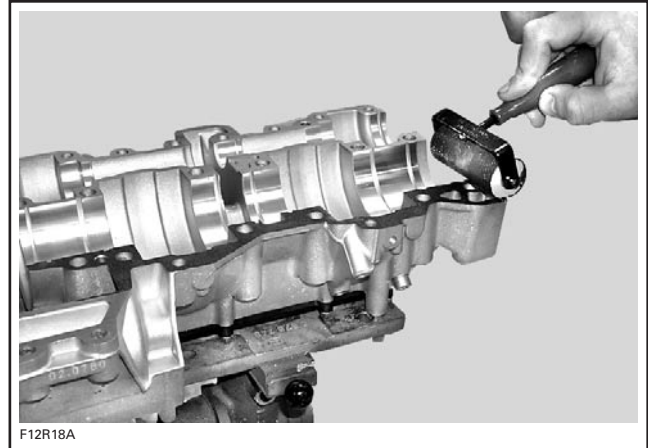
NOTE: Sealant curing time is 4 to 24 hours.

CAUTION: Do not use Loctite 515, Loctite 518, Drei Bond, or any non silicone-based sealant on a crankcase previously sealed with Loctite 5910. Do not use Loctite Primer N with Loctite 5910. These products are chemically incompatible and will cause poor adhesion and leaks. Even after cleaning, Loctite 5910 leaves incompatible microscopic particles.



Apply some sealant on a plexiglass plate. Use a soft rubber roller (50 to 70 mm, (2 to 3 in.)) to spread the sealant into a thin, even coat on the plate. A suitable roller is available from arts products suppliers for print making.

When ready, apply the sealant on crankcase mating surfaces.



Do not apply too much sealant to avoid spreading it into the crankcase.

Please route to :

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **October 19, 2004**

Subject: ► **B.U.D.S. G2.2.7 for Power TEK**

No. **2005-3**
REVISION ► 1

YEAR	MODEL
MY 2005 And On	All Power TEK Equipped Models

► B.U.D.S. version G2.2.7 is now available. It is required to program the Power TEK models.

Pay special attention to the following:

- A new access code is required to run this new version
- There is a new installation procedure related to IXAAT
- ► There are now 8 disks to download

NOTE: This new B.U.D.S. version includes all the features of the previous versions; it works on any DESS equipped vehicle.

INSTRUCTIONS:

You can install the B.U.D.S. application on a computer that has an access to internet as well as on a computer that does not have the access to Internet. However in both cases you will need to download the B.U.D.S. application using a computer with Internet access.

- 1– Log into «BOSSWeb»
- 2– Go to «ComCenter»
- 3– From the «Show» drop down menu, Select and click on «B.U.D.S. & MPEM»
- 4– Click on category «B.U.D.S.»

Downloading B.U.D.S.:

1– Select file «B.U.D.S. Single File for download».

Note: If you don't see the file, click on the green arrow to view all B.U.D.S. downloads.

2– After clicking on the file, you will be asked to Save or to Open file. Choose Save (Do not rename the file). It is recommended to save it on your desktop.

3– Once the download is completed proceed to the installation of B.U.D.S.

Installing B.U.D.S.:

► There are two types of procedures to choose from:

- ► A) If B.U.D.S. version G2.2.6 was installed on your computer; follow steps 1 to 11 and then jump to step 32.
- ► B) If B.U.D.S. version G2.2.6 was not yet installed on your computer; follow all steps.

1– Double click on the file icon on your desktop to start the installation.

2– Click on "Setup" button.

3– Choose your Setup Language by selecting from the drop down menu and click "OK".

4– Read the Welcome screen instructions info and click the "Next" button.

5– Read the Software License Agreement then click the "Yes" button.

6- Type your Dealer Name and Number. Click the "Next" button.

7- Type a username of your choice, your First Name and Last Name. Click the "Next" button.

NOTE: Remember your username since you will need it every time you log into the B.U.D.S.

8- Type a password of your choice. Confirm your password. Click the "Next" button.

NOTE: Remember your password since you will need it every time you log into the B.U.D.S. software. If you forget your password, you will have to uninstall and re-install the B.U.D.S. system.

9- Choose "Typical Setup" and click the "Next" button.

10- Click the "Next" button when asked to Choose Destination Location.

NOTE: It is recommended to leave the default folder, however you can click on "Browse" if you need to change the destination folder.

11- Click the "Next" button when asked to Select Program Folder.

12- Click "OK" when asked to select Retrieving your license file.



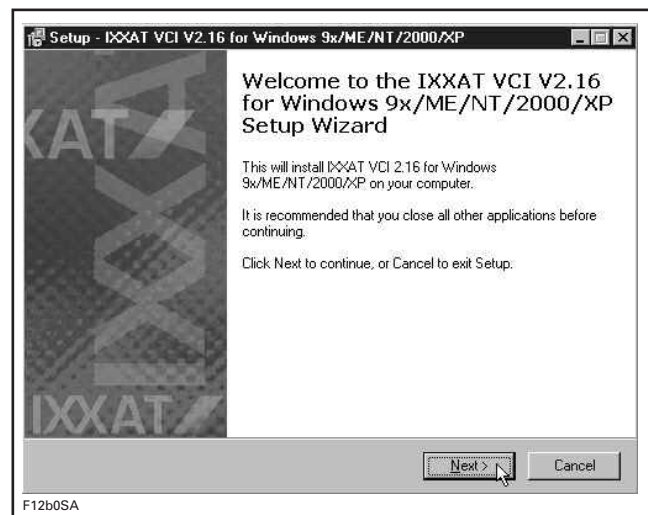
13- Click "OK" on this screen.



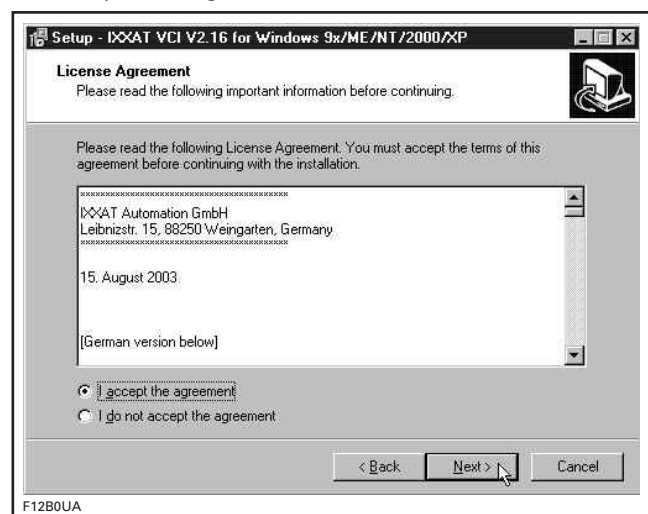
14- Click "OK" on this screen.



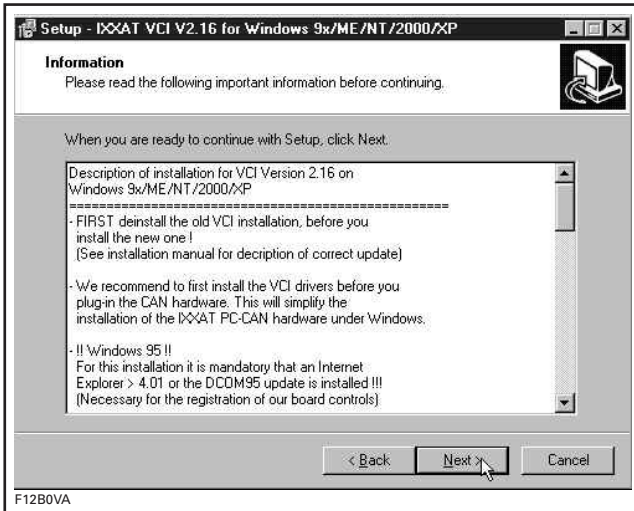
15- Click "Next" when asked to install IXXAT.



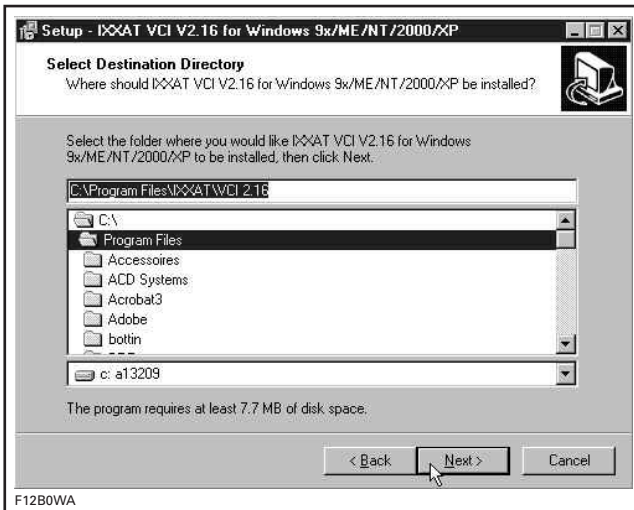
16- Read the software license agreement. Select "I accept the agreement". Click "Next".



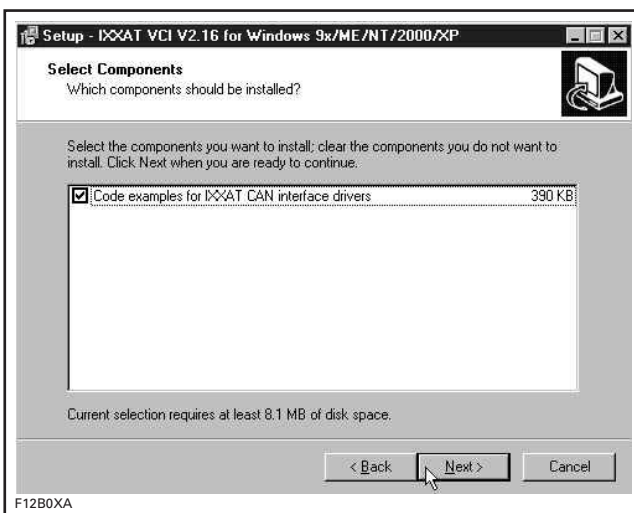
17- Click "Next" on this screen.



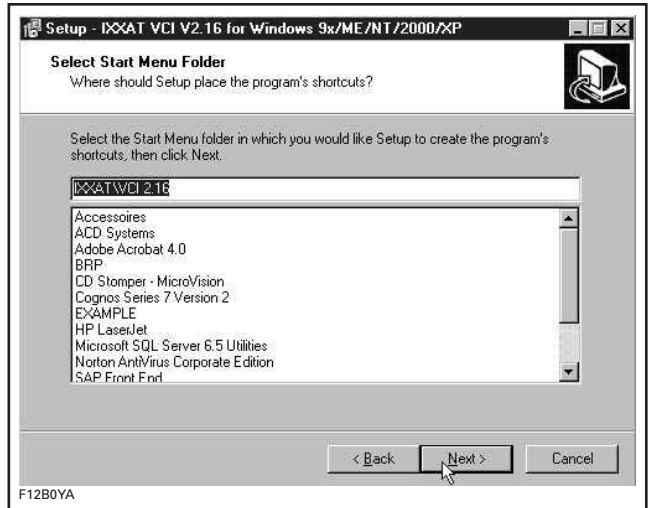
18- Click the "Next" button when asked to select a destination directory.



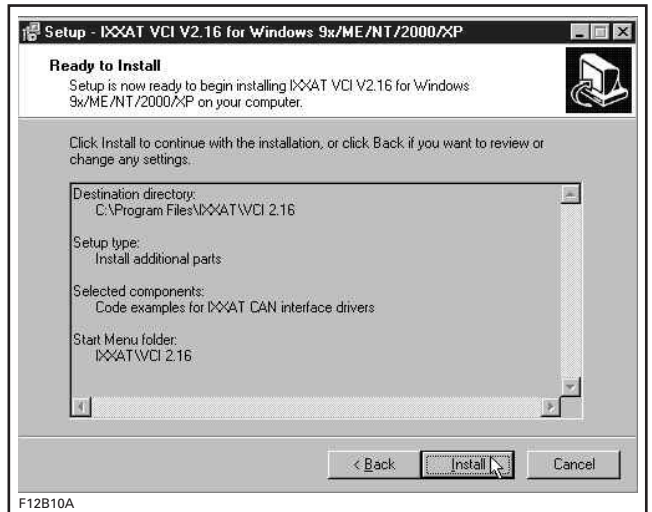
19- Click the "Next" button when asked to select components.



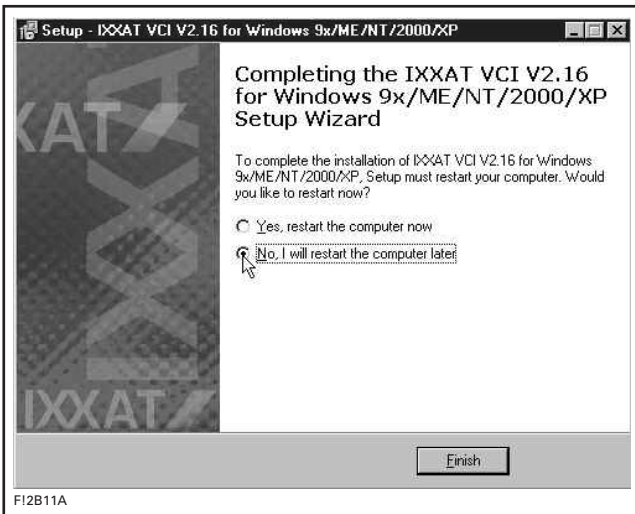
20- Click the "Next" button when asked to select start menu folder.



21- Click the "Install" button if all shown settings are correct.



22- Select "NO" when asked to restart your computer. Click "Finish".



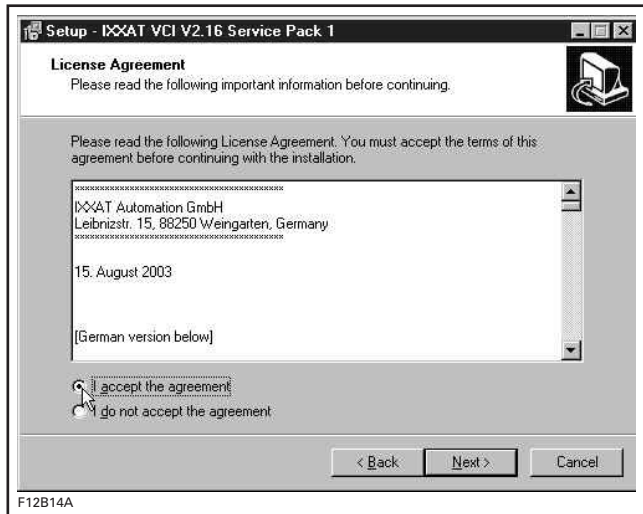
23- Click "OK" on this screen.



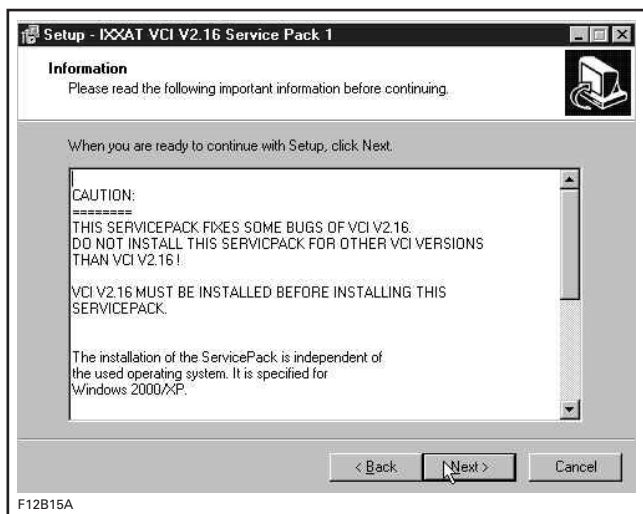
24- Click the "Next" button when asked to install the IXXAT Service Pack.



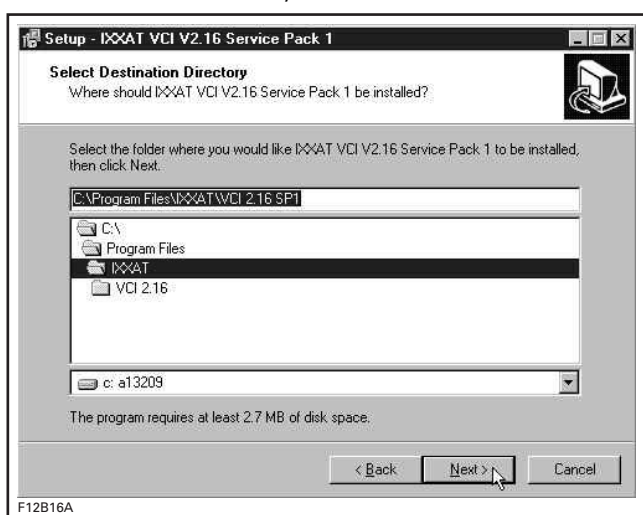
25- Read the software license agreement. Select "I accept the agreement". Click "Next".



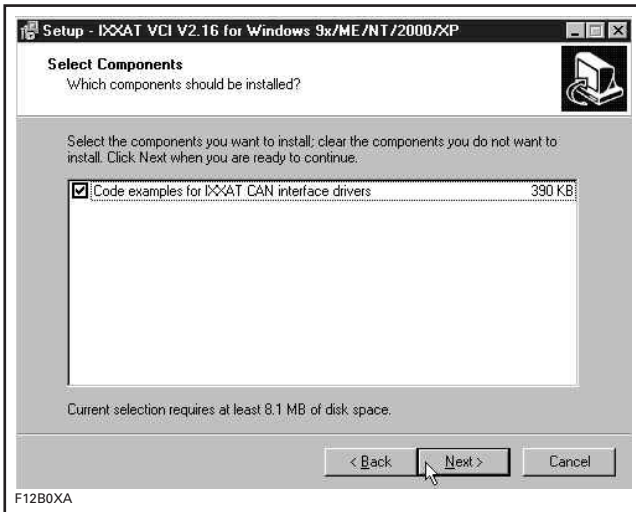
26- Click "Next" on this screen.



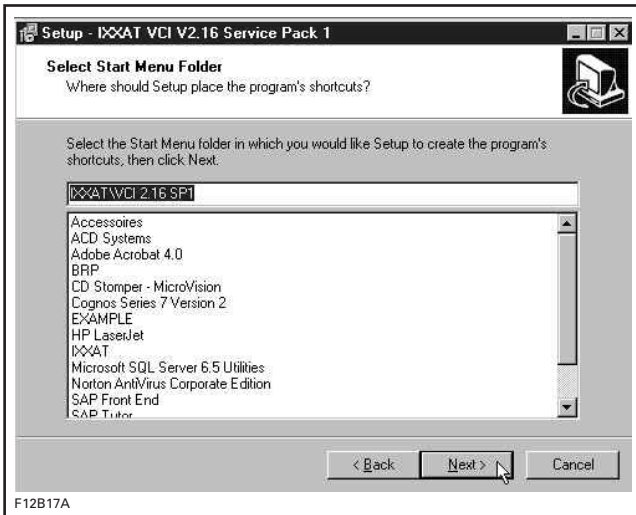
27- Click the "Next" button when asked to select a destination directory.



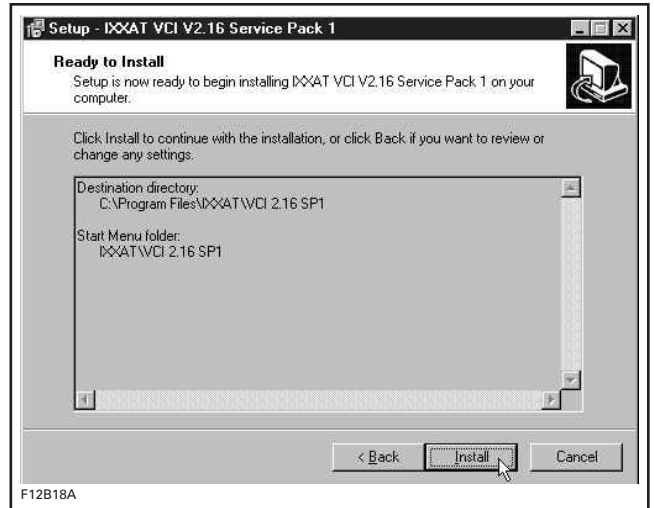
28- Click the "Next" button when asked to select components.



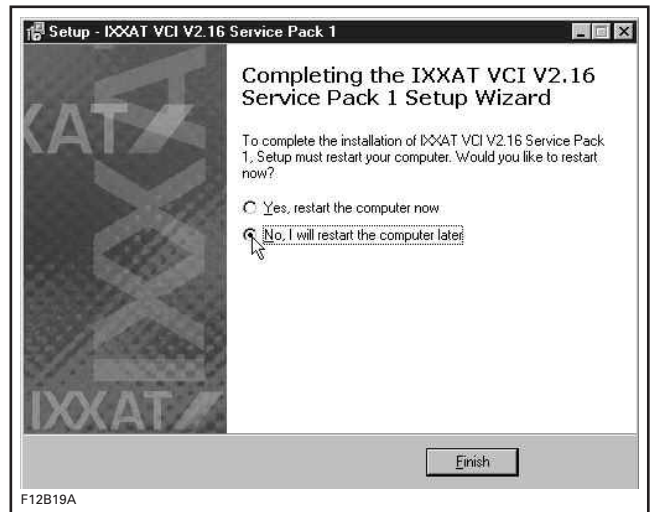
29- Click the "Next" button when asked to select start menu folder.



30- Click the "Install" button if all shown settings are correct.



31- Select "NO" when asked to restart your computer. Click "Finish".



32- Once installation is completed, you will have the option of viewing the Readme and as well as the option to put a Shortcut on your desktop to launch B.U.D.S. software. Uncheck the box if you don't want to view the Readme file and click OK to finish installation.



Step-By-Step Installing B.U.D.S. on "a Different" Computer

- 1- Using a computer that has an access to Internet, Log into «BOSSWeb».
- 2- Go to «ComCenter» Tab
- 3- From the «Show:» drop down menu, Select and click on «B.U.D.S. & MPEM»
- 4- Click on category «B.U.D.S.»

Downloading B.U.D.S.

- ▶ 1- Select files «B.U.D.S. disk 1, 2, 3, 4, 5, 6, 7 & 8 for download».

NOTE: If you don't see all files, click on the green arrow to view all B.U.D.S. downloads.

- 2- After clicking on the file, you will be asked to Save or to Open file. Choose Save

NOTE:

- Do not save directly on floppy 3 ½ disks.
- Do not rename the files
- It is recommended to save each file on your desktop or on any other folder of your choice.

3- Once the download of all the disks is completed, you have to copy each file on an individual 3 ½ disk and bring them to the computer that does not have access to Internet to Install B.U.D.S.

Installing B.U.D.S. on a computer that does not have Internet access

- ▶ Copy all the disks on the desktop of the computer. It will create 8 files on your desktop. From the desktop, double click on file with the «.EXE» extension. This will start the installation procedure.

From there the installation is the same as for a computer that has access to the Internet; so use the above "Step-By-Step Installing B.U.D.S." instructions : "Installing B.U.D.S."; going to step #2.

Using the B.U.D.S. Software

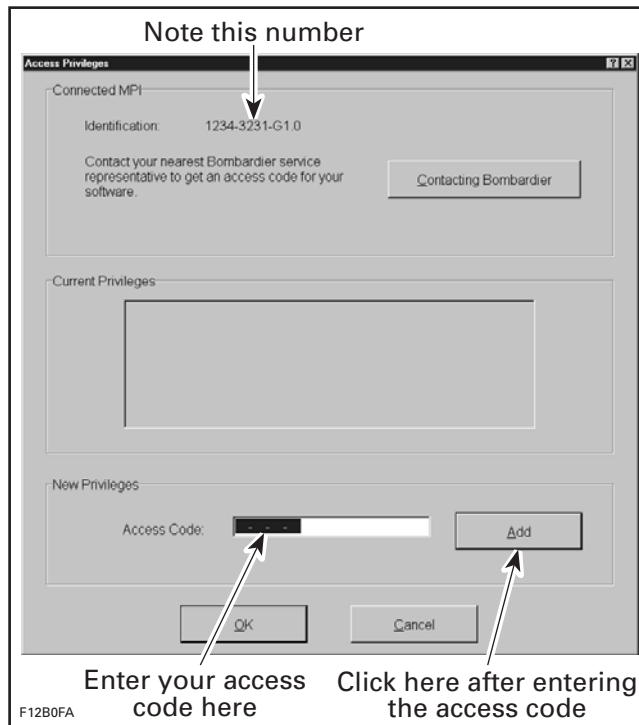
To start the software, use the shortcut on the desktop or click the "Start" button on the Windows desktop. Choose "Program, Bombardier" (or the subfolder you chose) then "B.U.D.S.".

First Time Use

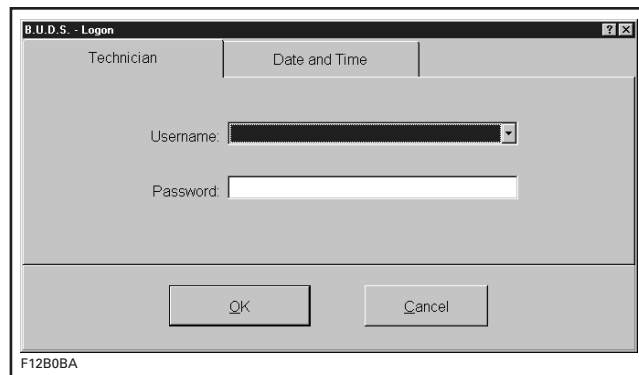
Each first time you use the software B.U.D.S. with a new MPI (Multi Protocol Interface), it will request an Access Code to allow its use. Note the Control Number and call your Service Department. Attendant will ask you the Control Number and give you an Access Code.

NOTE: ► If you had installed the G2.2.6 version, no new access code is required.

NOTE: It is not necessary to keep the software B.U.D.S. open while calling the Service Department; the Access Code can be entered anytime when ready.



Enter the username (nickname) and password you previously entered to finally access the software.



Contact Us

For more information pertaining to the use of the software B.U.D.S., use its HELP which contains detailed information on its functions.

- For assistance contact the BOSSWeb Help Desk
- For your access code, contact the Service Department

Country	Phone Number
United States:	1-800-366-6992
Canada:	1-800-361-9980
International	1-819-566-3085

Please route to :

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **September 24, 2004**

Subject: **Spring Chart**

No. **2005-4**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All (except utility models)	All	All

The information in this bulletin supersedes all information previously published.

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

This bulletin is divided into 2 main sections.

Section 1: Spring Applications

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

Section 2: Spring Specifications

Refers to spring specifications.

COIL SPRINGS

(compression)

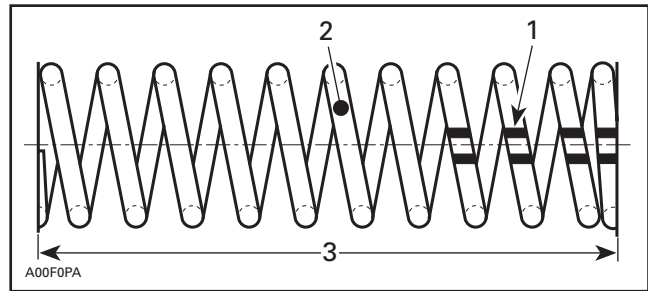
NOTE: Read color codes when spring is upright and stripes are down.

Type R (straight at both ends)

(Single Rate Spring)

NOTE: Illustration shows:

- [1] color code stripes,
- [2] wire diameter,
- [3] free length.

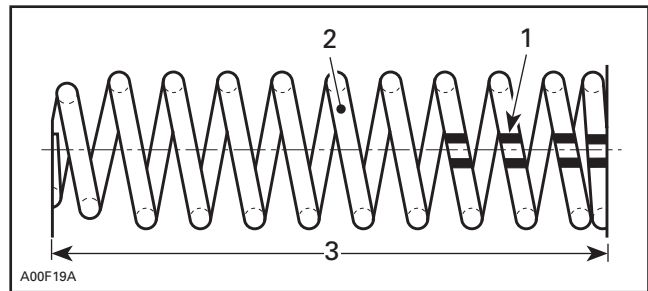


Type S (barrel shape at one end)

(Single Rate Spring)

NOTE: Illustration shows:

- [1] color code stripes,
- [2] wire diameter,
- [3] free length.

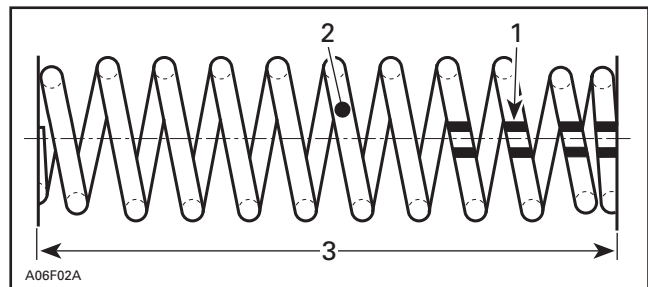


Type T (barrel shape at both ends)

(Single Rate Spring)

NOTE: Illustration shows:

- [1] color code stripes,
- [2] wire diameter,
- [3] free length.

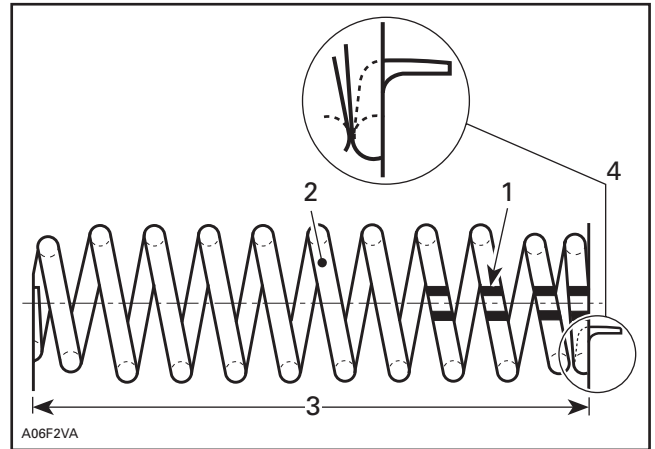


Type Y (barrel shape at both ends with positioning tab at the color code coils end)

(Single Rate Spring)

NOTE: Illustration shows:

- [1] color code stripes,
- [2] wire diameter,
- [3] free length,
- [4] positioning tab.

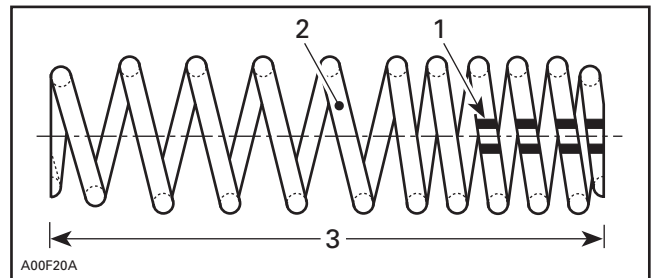


Type 2 (barrel shape at both ends)

(Dual Rate Spring)

NOTE: Illustration shows:

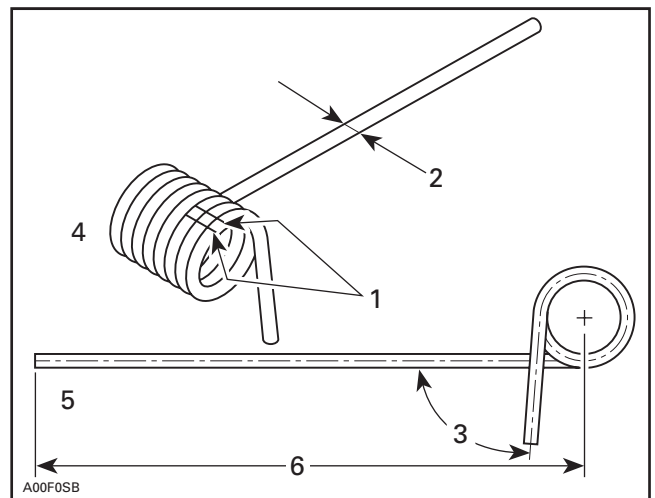
- [1] color code stripes,
- [2] wire diameter,
- [3] free length.



TORSION SPRINGS

NOTE: Illustration shows:

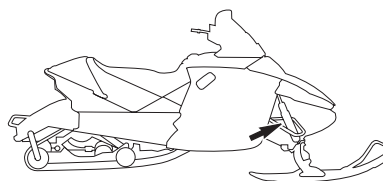
- [1] color code stripes,
- [2] wire diameter,
- [3] opening angle ($^{\circ}$),
- [4] left hand (LH) ,
- [5] right hand (RH),
- [6] length.



SECTION 1: SPRING APPLICATIONS

SECTION 1: UTILISATION DES RESSORTS

FRONT SPRINGS RESSORTS AVANT

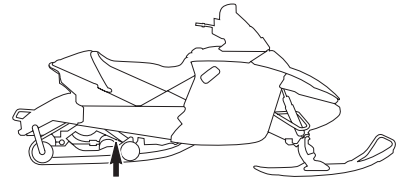


MODEL MODÈLE	(P/N) SOFTER SPRING PLUS SOUPLE (N/P)	(P/N) STANDARD STANDARD (N/P)	(P/N) HARDER SPRING PLUS RIGIDE (N/P)
Mach Z®	505 071 492	505 071 447	505 070 536
MX Z® Adrenaline	505 071 129	505 071 257	505 070 762
MX Z Trail	505 071 129	505 071 257	505 070 762
MX Z x	505 071 129	505 071 388	505 070 762
MX Z x Renegade	505 071 129	505 071 388	505 070 762
MX Z Renegade	505 071 129	505 071 257	505 070 762
MX Z Fan	505 071 129	505 071 257	505 070 762
Summit® Adrenaline	Not Applicable/ <i>Sans objet</i>	505 071 461	505 071 492
Summit HM	505 071 461	505 071 492	505 071 447
Summit x	Not Applicable/ <i>Sans objet</i>	505 071 642	505 071 492
Summit x HM	505 071 461	505 071 647	505 071 447
Summit 500 F	505 071 129	505 071 257	505 070 762
GSX™ Sport <i>GSX^{MC} Sport</i>	505 071 129	505 071 264	505 070 762
GSX LTD	505 071 129	505 071 264	505 070 762
GSX F	505 071 129	505 071 264	505 070 762
GTX† Sport	505 071 129	505 071 264	505 070 762
GTX LTD	505 071 129	505 071 264	505 070 762
GTX LTD	505 071 129	505 071 549	505 070 762
GTX F	505 071 129	505 071 264	505 070 762
Legend™ Sport <i>Legend^{MC} Sport</i>	505 070 686	505 071 129	505 070 146
Legend SE	505 070 686	505 071 129	505 070 146
Legend GT Sport	505 070 686	505 071 129	505 070 146
Legend GT SE	505 070 686	505 071 129	505 070 146
Expedition™ Sport <i>Expedition^{MC} Sport</i>	505 071 129	505 071 264	505 070 762

† GTX is a trademark of Castrol Ltd, used under license.

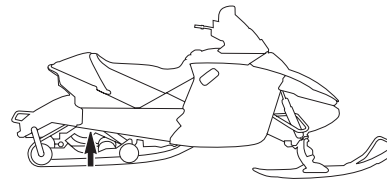
† GTX est une marque de commerce de Castrol Ltd, utilisée sous licence.

**CENTER SPRINGS
RESSORTS DU CENTRE**



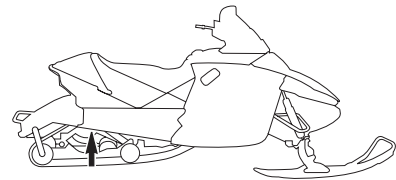
MODEL MODÈLE	(P/N) SOFTER SPRING PLUS SOUPLE (N/P)	(P/N) STANDARD STANDARD (N/P)	(P/N) HARDER SPRING PLUS RIGIDE (N/P)
Mach Z	503 189 325	503 189 659	503 189 686
MX Z Adrenaline	503 189 812	503 190 476 503 190 478	503 190 476 503 190 480
MX Z Trail	503 189 659	503 189 686	503 190 283
MX Z x	415 070 500	503 189 325	503 189 659
MX Z x Renegade	503 189 812	503 190 476 503 190 478	503 190 476 503 190 480
MX Z Renegade	503 189 812	503 190 476 503 190 478	503 190 476 503 190 480
MX Z Fan	503 189 659	503 189 686	503 190 283
Summit Adrenaline	503 190 476 503 190 478	503 190 471 503 189 990	503 190 471 503 189 999
Summit x	503 190 476 503 190 478	503 190 471 503 189 990	503 190 471 503 189 999
Summit HM	503 190 471 503 189 999	503 190 982 503 190 854	503 189 659
Summit HM x	503 190 471 503 189 999	503 190 982 503 190 854	503 189 659
Summit 500 F	415 070 500	503 189 325	503 189 659
GSX Sport	503 189 812	503 190 476 503 190 478	503 190 476 503 190 480
GSX LTD	503 189 812	503 190 476 503 190 478	503 190 476 503 190 480
GSX F	503 189 659	503 189 686	503 190 283
Legend Sport	503 189 325	503 189 659	503 189 686
Legend SE	503 189 325	503 189 659	503 189 686
Legend GT Sport	503 189 325	503 189 659	503 189 686
Legend GT SE	503 189 325	503 189 659	503 189 686
GTX F	503 189 325	503 189 659	503 189 686
GTX Sport	503 189 812	503 190 476 503 190 478	503 190 476 503 190 480
GTX LTD	503 189 812	503 190 476 503 190 478	503 190 476 503 190 480
Expedition Sport	503 189 325	503 189 659	503 189 686

REAR SPRINGS
RESSORTS ARRIÈRE



MODEL <i>MODÈLE</i>	(P/N) SOFTER SPRING <i>PLUS SOUPLE (N/P)</i>	(P/N) STANDARD <i>STANDARD (N/P)</i>	(P/N) HARDER SPRING <i>PLUS RIGIDE (N/P)</i>
Mach Z	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D	503 191 000 LH/G 503 190 999 RH/D
MX Z Adrenaline	503 190 714 LH/G 503 190 712 RH/D	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D
MX Z Trail	503 189 594 LH/G 503 189 592 RH/D	503 190 335 LH/G 503 190 334 RH/D	503 190 718 LH/G 503 190 716 RH/D
MX Z x	503 190 718 LH/G 503 190 716 RH/D	503 190 779 LH/G 503 190 777 RH/D	503 190 775 LH/G 503 190 773 RH/D
MX Z x Renegade	503 190 714 LH/G 503 190 712 RH/D	503 190 494 LH/G 503 190 492 RH/D	503 190 775 LH/G 503 190 773 RH/D
MX Z Renegade	503 190 714 LH/G 503 190 712 RH/D	503 190 494 LH/G 503 190 492 RH/D	503 190 775 LH/G 503 190 773 RH/D
MX Z Fan	Not Applicable <i>Sans objet</i>	503 189 594 LH/G 503 189 592 RH/D	503 190 714 LH/G 503 190 712 RH/D
Summit Adrenaline	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D	Not Applicable <i>Sans objet</i>
Summit HM	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D	Not Applicable <i>Sans objet</i>
Summit x	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D	Not Applicable <i>Sans objet</i>
Summit HM x	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D	Not Applicable <i>Sans objet</i>
Summit 500 F	503 189 594 LH/G 503 189 592 RH/D	503 190 335 LH/G 503 190 334 RH/D	503 190 718 LH/G 503 190 716 RH/D
GSX F	Not Applicable <i>Sans objet</i>	503 189 594 LH/G 503 189 592 RH/D	503 190 714 LH/G 503 190 712 RH/D
GSX Sport	503 189 594 LH/G 503 189 592 RH/D	503 190 714 LH/G 503 190 712 RH/D	503 190 718 LH/G 503 190 716 RH/D
GSX LTD	503 189 594 LH/G 503 189 592 RH/D	503 190 335 LH/G 503 190 334 RH/D	503 190 718 LH/G 503 190 716 RH/D
Legend Sport	503 190 494 LH/G 503 190 492 RH/D	503 190 331 LH/G 503 190 329 RH/D	503 189 675 LH/G 503 189 674 RH/D

REAR SPRINGS
RESSORTS ARRIÈRE



MODEL <i>MODÈLE</i>	(P/N) SOFTER SPRING <i>PLUS SOUPLE (N/P)</i>	(P/N) STANDARD <i>STANDARD (N/P)</i>	(P/N) HARDER SPRING <i>PLUS RIGIDE (N/P)</i>
Legend SE	503 190 494 LH/G 503 190 492 RH/D	503 190 331 LH/G 503 190 329 RH/D	503 189 675 LH/G 503 189 674 RH/D
Legend GT SE	503 190 335 LH/G 503 190 334 RH/D	503 190 494 LH/G 503 190 492 RH/D	503 189 675 LH/G 503 189 674 RH/D
Legend GT Sport	503 189 524 LH/G 503 189 522 RH/D	503 189 900 LH/G 503 189 898 RH/D	503 189 683 LH/G 503 189 681 RH/D
GTX Fan	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D	503 189 900 LH/G 503 189 898 RH/D
GTX Sport	503 189 900 LH/G 503 189 898 RH/D	503 191 026 LH/G 503 191 024 RH/D	503 189 683 LH/G 503 189 681 RH/D
GTX LTD	503 189 675 LH/G 503 189 674 RH/D	503 189 351 LH/G 503 189 350 RH/D	503 189 900 LH/G 503 189 898 RH/D
Expedition Sport	503 190 718 LH/G 503 190 716 RH/D	503 190 775 LH/G 503 190 773 RH/D	503 189 900 LH/G 503 189 898 RH/D
Tundra R	Not Applicable <i>Sans objet</i>	414 880 200 LH/G 414 880 300 RH/D	503 189 252 LH/G 503 189 251 RH/D

SECTION 2: SPRING SPECIFICATIONS SECTION 2: CARACTÉRISTIQUES DES RESSORTS

Coil Springs Specifications

Caractéristiques des ressorts à boudin

P/N N/P	TYPE TYPE	SPRING RATE (lb/in) ±10 TAUX DE COMPRESSION (lb/po) ±10	FREE LENGTH (mm) ±3 LONGUEUR AU REPOS (mm) ±3	WIRE DIAMETER (mm) ±.05 DIAMÈTRE DU FIL (mm) ±.05	COLOR CODE STRIPEs ① LIGNES DU CODE DE COULEUR ①	COLOR OF SPRING COULEUR DU RESSORT
415 070 500	T	135	242	8.41	BL/YL/YL BU/JA/JA	BLACK NOIR
503 189 325	T	150	242	8.25	YL/SI/YL JA/AR/JA	BLACK NOIR
503 189 659	T	180	242	8.71	BL/RD/YL BU/RO/JA	BLACK NOIR
503 189 686	T	200	242	9.19	RD/SI/YL RO/AR/JA	BLACK NOIR
503 189 812	2	125–200	250	8.41	BL/GN/YL BU/VE/JA	BLACK NOIR
503 189 990	R	275	189	9.19	GD/WH/YL DO/BC/JA	BLACK NOIR
503 189 999	R	325	189	9.52	GD/SI/YL DO/AR/JA	BLACK NOIR
503 190 283	T	400	232	12.19	GD/BL/YL DO/BU/JA	BLACK NOIR
503 190 471	R	215	64	6.35	WH/WH/YL BC/BC/JA	BLACK NOIR
503 190 476	R	210	64.6	6.65	BL/SI/YL BU/AR/JA	BLACK NOIR
503 190 478	S	240	178	9.19	GN/SI/YL VE/AR/JA	BLACK NOIR
503 190 480	S	275	178	9.52	GN/GD/RD VE/DO/RO	BLACK NOIR
503 190 854	R	325	189	8.84	SI/WH/YL	BLACK NOIR
503 190 982	R	319	72	7.14	GD/YL/RD AR/JA/RO	BLACK NOIR
503 190 478	S	240	178	9.19	GN/SI/YL VE/AR/JA	BLACK NOIR

① Refer to last page of this bulletin for color codes table.

① Voir la dernière page de ce bulletin pour les codes de couleur.

P/N N/P	TYPE TYPE	SPRING RATE (lb/in) ±10 TAUX DE COMPRESSION (lb/po) ±10	FREE LENGTH (mm) ±3 LONGUEUR AU REPOS (mm) ±3	WIRE DIAMETER (mm) ±.05 DIAMÈTRE DU FIL (mm) ±.05	COLOR CODE STRIPES ① LIGNES DU CODE DE COULEUR ①	COLOR OF SPRING COULEUR DU RESSORT
503 190 480	S	275	178	9.52	GN/GD/RD VE/DO/RO	BLACK NOIR
503 190 854	R	325	189	8.84	SI/WH/YL	BLACK NOIR
503 190 982	R	319	72	7.14	GD/YL/RD AR/JA/RO	BLACK NOIR
505 070 146	T	100	315	8.71	RD/RD/RD RO/RO/RO	BLACK JAUNE
505 070 536	T	150	300	9.19	GN/WH/YL VE/BC/JA	BLACK NOIR
505 070 686	2	55–85	320	7.77	YL/WH/BK JA/BC/NO	FULL MOON PLEINE LUNE
505 070 762	T	105	300	8.71	GN/GD/BK VE/DO/NO	YELLOW JAUNE
505 071 129	T	75	314	7.77	GD/BK/BK DO/NO/NO	FULL MOON PLEINE LUNE
505 071 257	T	90	314	8.25	SI/WH/BK AR/BC/NO	YELLOW JAUNE
505 071 264	T	90	314	8.25	GD/BK/RD DO/NO/RO	FULL MOON PLEINE LUNE
505 071 388	Y	90	298	7.92	GN/WH/RD VE/BC/RO	YELLOW JAUNE
505 071 447	T	125	280	7.77	WH/BL/GN BC/BU/VE	FULL MOON PLEINE LUNE
505 071 461	T	75	280	7.49	GN/SI/BK VE/AR/NO	YELLOW JAUNE
505 071 492	T	105	280	7.77	WH/RD/GN BC/RO/VE	YELLOW JAUNE
505 071 549	T	90	314	8.25	GN/WH/BL VE/BC/BU	SEA SHORE BORD DE MER
505 071 642	Y	75	280	7.49	GN/GN/GN VE/VE/VE	YELLOW JAUNE
505 071 647	Y	105	280	7.77	WH/RD/RD BC/RO/RO	YELLOW JAUNE

① Refer to last page of this bulletin for color codes table.

① Voir la dernière page de ce bulletin pour les codes de couleur.

Torsion Springs Specifications
Caractéristiques des ressorts de torsion

P/N N/P	WIRE DIAMETER (MM) DIAMÈTRE DU FIL (MM)	OPENING ANGLE ± 7° ANGLE D'OUVERTURE ± 7°	COLOR CODE ① CODE DE COULEUR ①	COLOR OF SPRING COULEUR DU RESSORT
414 880 200 LH/G 414 880 300 RH/D	9.5	100°	Not Applicable <i>Sans objet</i>	BLACK <i>NOIR</i>
503 189 252 LH/G 503 189 251 RH/D	10.3	95°	RD/RD <i>RO/RO</i>	BLACK <i>NOIR</i>
503 189 524 LH/G 503 189 522 RH/D	11.11	90°	GN/GN/YL <i>VE/VE/JA</i>	BLACK <i>NOIR</i>
503 189 351 LH/G 503 189 350 RH/D	11.5	100°	GD/GD <i>DO/DO</i>	BLACK <i>NOIR</i>
503 189 594 LH/G 503 189 592 RH/D	10.3	85°	GD/RD <i>DO/RO</i>	BLACK <i>NOIR</i>
503 189 675 LH/G 503 189 674 RH/D	11.11	80°	SI/YL/YL <i>AR/JA/JA</i>	BLACK <i>NOIR</i>
503 189 683 LH/G 503 189 681 RH/D	11.9	80°	SI/SI <i>AR/AR</i>	BLACK <i>NOIR</i>
503 189 900 LH/G 503 189 898 RH/D	11.5	90°	GD/GD/GD <i>DO/DO/DO</i>	BLACK <i>NOIR</i>
503 190 331 LH/G 503 190 329 RH/D	9.144 (square/carré)	90°	RD/SI/YL <i>RO/AR/JA</i>	BLACK <i>NOIR</i>
LH –Left Hand Side RH –Right Hand Side		G = gauche D = droite		

① Refer to last page of this bulletin for color codes table.

① *Voir la dernière page de ce bulletin pour les codes de couleur.*

P/N N/P	WIRE DIAMETER (MM) <i>DIAMÈTRE DU FIL (MM)</i>	OPENING ANGLE $\pm 7^\circ$ <i>ANGLE D'OUVERTURE $\pm 7^\circ$</i>	COLOR CODE <i>CODE DE COULEUR</i>	COLOR OF SPRING <i>COULEUR DU RESSORT</i>
503 190 335 LH/G 503 190 334 RH/D	8.5852 (square/carré)	75°	YL/RD/RD JA/RO/RO	BLACK NOIR
503 190 494 LH/G 503 190 492 RH/D	8.85 (square/carré)	80°	BL/BL/BL BU/BU/BU	BLACK NOIR
503 190 714 LH/G 503 190 712 RH/D	8.85 (square/carré)	75°	BL/BL BU/BU	BLACK NOIR
503 190 718 LH/G 503 190 716 RH/D	9.144 (square/carré)	80°	RD/RD RO/RO	BLACK NOIR
503 190 775 LH/G 503 190 773 RH/D	9.525 (square/carré)	90°	GN/GN VE/VE	BLACK NOIR
503 190 779 LH/G 503 190 777 RH/D	9.525 (square/carré)	80°	GN/YL VE/JA	BLACK NOIR
503 191 000 LH/G 503 190 999 RH/D	9.144 (square/carré)	85°	GN/RD VE/RO	BLACK NOIR
503 191 026 LH/G 503 191 024 RH/D	11.9	90°	SI/SI/SI AR/AR/AR	BLACK NOIR
LH –Left Hand Side RH –Right Hand Side		G = gauche D = droite		

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

CODES DE COULEUR DES RESSORTS				
NO = NOIR	BU = BLEU	DO = DORÉ	VE = VERT	OR = ORANGE
RE = ROSE	RO = ROUGE	AR = ARGENT	BC = BLANC	JA = JAUNE

Please route to:

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<input type="checkbox"/> Sales		<input type="checkbox"/>
<input type="checkbox"/> Parts		<input type="checkbox"/>



Date: **October 1st, 2004**

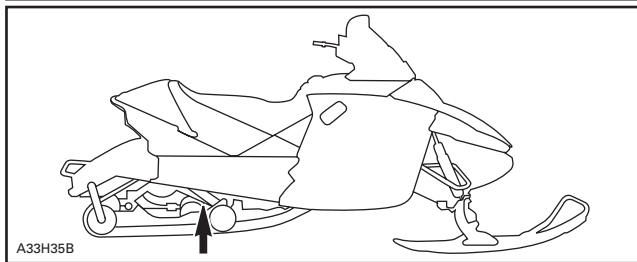
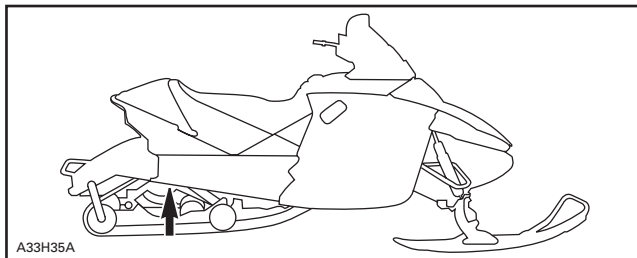
Subject: **Spring Reference According to Load**

No. **2005-5**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All	All	All

The tables contained in this bulletin are intended to annex suspension decal on snowmobiles; they describe additional settings for optimum comfort according to load.

The tables are dealing with **REAR** and **CENTER** springs as shown by the arrow in the following illustrations.



NOTE: "C.P." seen in every headings stands for **CAM POSITION**.

This first page table gives a quick access to proper page according to model name.

MODEL NAME	PAGE
Expedition™ Sport (Can./U.S.)	5
GSX™ Fan (Can./U.S.)	2
GSX Sport (Can./U.S.)	14
GSX Ltd (Can./U.S.)	16

GTX [†] Fan (Can./U.S.)	5
GTX Fan (Europe)	5
GTX Sport (Can./U.S.)	8
GTX Ltd (Can./U.S.)	13
GTX Ltd (Europe)	15
GTX Sport (Europe)	15
Legend™ GT SE (Can./U.S.)	10
Legend GT SE (Europe)	17
Legend GT (Can./U.S.)	9
Legend SE (Can./U.S.)	12
Legend Sport (Can./U.S.)	12
Mach Z® Adrenaline (Can./U.S./Europe)	2
MX Z® Adrenaline (Can./U.S.)	3
MX Z Adrenaline (Europe)	4
MX Z Fan (Can./U.S.)	2
MX Z 380 Fan (Europe)	4
MX Z 550 Fan (Europe)	7
MX Z Renegade (Can./U.S.)	6
MX Z Renegade (Europe)	4
MX Z x Renegade (Can./U.S.)	6
MX Z Trail (Can./U.S.)	11
MX Z Trail (Europe)	4
MX Z x (Can./U.S./Europe)	18
MX Z x Renegade (Europe)	4
Summit™ Adrenaline (Can./U.S./Europe)	7
Summit Fan (Can./U.S.)	17
Summit 550 Fan (Europe)	7
Summit HM (Can./U.S.)	8
Summit HM x (Can./U.S./Europe)	8
Summit X (Can./U.S.)	7

† GTX is a trademark of Castrol Ltd, used under license.

	MACH Z ADRENALINE (CAN., U.S., EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 170 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
170 lb to 200 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
200 lb to 230 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
230 lb to 260 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
260 lb to 275 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
275 lb to 290 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
290 lb to 300 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 999	503 191 000	1	GN/RD	503 189 686	1	RD/SI/YL	BLACK
220 lb to 250 lb	503 190 999	503 191 000	2	GN/RD	503 189 686	2	RD/SI/YL	BLACK
250 lb to 280 lb	503 190 999	503 191 000	3	GN/RD	503 189 686	2	RD/SI/YL	BLACK
280 lb to 310 lb	503 190 999	503 191 000	4	GN/RD	503 189 686	2	RD/SI/YL	BLACK
310 lb to 325 lb	503 190 999	503 191 000	4	GN/RD	503 189 686	3	RD/SI/YL	BLACK
325 lb to 340 lb	503 190 999	503 191 000	4	GN/RD	503 189 686	4	RD/SI/YL	BLACK
340 lb to 350 lb	503 190 999	503 191 000	4	GN/RD	503 189 686	5	RD/SI/YL	BLACK

	MX Z FAN (CAN., U.S.) GSX FAN (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 170 lb	503 189 592	503 189 594	1	GD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
170 lb to 200 lb	503 189 592	503 189 594	2	GD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
200 lb to 230 lb	503 189 592	503 189 594	3	GD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
230 lb to 260 lb	503 189 592	503 189 594	4	GD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 716	503 190 718	1	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
220 lb to 250 lb	503 190 716	503 190 718	2	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
250 lb to 280 lb	503 190 716	503 190 718	3	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
280 lb to 310 lb	503 190 716	503 190 718	4	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
OPTION 2								
Up to 270 lb	503 190 773	503 190 775	1	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
270 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
300 lb to 330 lb	503 190 773	503 190 775	3	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
330 lb to 360 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	MX Z ADRENALINE (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 170 lb	503 190 716	503 190 718	1	RD/RD	503 190 476 503 190 478	1	BL/SI/YL GN/SI/BK	BLACK
170 lb to 200 lb	503 190 716	503 190 718	2	RD/RD	503 190 476 503 190 478	2	BL/SI/YL GN/SI/BK	BLACK
200 lb to 230 lb	503 190 716	503 190 718	3	RD/RD	503 190 476 503 190 478	2	BL/SI/YL GN/SI/BK	BLACK
230 lb to 260 lb	503 190 716	503 190 718	4	RD/RD	503 190 476 503 190 478	2	BL/SI/YL GN/SI/BK	BLACK
260 lb to 275 lb	503 190 716	503 190 718	4	RD/RD	503 190 476 503 190 478	3	BL/SI/YL GN/SI/BK	BLACK
275 lb to 290 lb	503 190 716	503 190 718	4	RD/RD	503 190 476 503 190 478	4	BL/SI/YL GN/SI/BK	BLACK
290 lb to 300 lb	503 190 716	503 190 718	4	RD/RD	503 190 476 503 190 478	5	BL/SI/YL GN/SI/BK	BLACK
OPTION 1								
Up to 220 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
310 lb to 325 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
325 lb to 340 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
340 lb to 350 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	MX Z 380 FAN (EUROPE) / MX Z TRAIL (EUROPE) MX Z ADRENALINE (EUROPE) / MX Z RENEGADE (EUROPE) MX Z x RENEGADE (EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 170 lb	503 190 483	503 190 485	1	YL/BL/YL	503 190 471 503 190 854	1	WH/WH/YL SI/WH/YL	BLACK
170 lb to 200 lb	503 190 483	503 190 485	2	YL/BL/YL	503 190 471 503 190 854	2	WH/WH/YL SI/WH/YL	BLACK
200 lb to 230 lb	503 190 483	503 190 485	3	YL/BL/YL	503 190 471 503 190 854	2	WH/WH/YL SI/WH/YL	BLACK
230 lb to 260 lb	503 190 483	503 190 485	4	YL/BL/YL	503 190 471 503 190 854	2	WH/WH/YL SI/WH/YL	BLACK
260 lb to 275 lb	503 190 483	503 190 485	4	YL/BL/YL	503 190 471 503 190 854	3	WH/WH/YL SI/WH/YL	BLACK
275 lb to 290 lb	503 190 483	503 190 485	4	YL/BL/YL	503 190 471 503 190 854	4	WH/WH/YL SI/WH/YL	BLACK
290 lb to 300	503 190 483	503 190 485	4	YL/BL/YL	503 190 471 503 190 854	5	WH/WH/YL SI/WH/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
310 lb to 325 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
325 lb to 340 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
340 lb to 350 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	GTX FAN (CAN., U.S.) EXPEDITION SPORT (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 190 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
190 lb to 250 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
250 lb to 300 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
300 lb to 350 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
OPTION 1								
Up to 250 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
250 lb to 330 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
330 lb to 370 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
370 lb to 400 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
OPTION 2								
Up to 300 lb	503 189 681	503 189 683	1	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
300 lb to 350 lb	503 189 681	503 189 683	2	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	3	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
400 lb to 450 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	GTX FAN (EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 190 lb	503 190 773	503 190 775	1	GN/GN	503 189 812	N.A.	BL/GN/YL	BLACK
190 lb to 250 lb	503 190 773	503 190 775	2	GN/GN	503 189 812	N.A.	BL/GN/YL	BLACK
250 lb to 300 lb	503 190 773	503 190 775	3	GN/GN	503 189 812	N.A.	BL/GN/YL	BLACK
300 lb to 350 lb	503 190 773	503 190 775	4	GN/GN	503 189 812	N.A.	BL/GN/YL	BLACK
OPTION 1								
Up to 250 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
250 lb to 330 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
330 lb to 370 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
370 lb to 400 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 686	N.A.	RD/SI/YL	BLACK
OPTION 2								
Up to 300 lb	503 189 681	503 189 683	1	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
300 lb to 350 lb	503 189 681	503 189 683	2	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	3	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
400 lb to 450 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	N.A.	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	MX Z RENEGADE (CAN., U.S.) MX Z x RENEGADE (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL- OR
STANDARD								
Up to 170 lb	503 190 492	503 190 494	1	BL/BL/BL	503 190 476 503 190 478	1	BL/SI/YL GN/SI/YL	BLACK
170 lb to 200 lb	503 190 492	503 190 494	2	BL/BL/BL	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
200 lb to 230 lb	503 190 492	503 190 494	3	BL/BL/BL	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
230 lb to 260 lb	503 190 492	503 190 494	4	BL/BL/BL	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
260 lb to 275 lb	503 190 492	503 190 494	4	BL/BL/BL	503 190 476 503 190 478	3	BL/SI/YL GN/SI/YL	BLACK
275 lb to 290 lb	503 190 492	503 190 494	4	BL/BL/BL	503 190 476 503 190 478	4	BL/SI/YL GN/SI/YL	BLACK
290 lb to 300 lb	503 190 492	503 190 494	4	BL/BL/BL	503 190 476 503 190 478	5	BL/SI/YL GN/SI/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
310 lb to 325 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
325 lb to 340 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
340 lb to 350 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	SUMMIT 550 FAN (EUROPE) MX Z 550 FAN (EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 170 lb	503 190 483	503 190 485	1	YL/BL/YL	503 189 812	N.A.	BL/GN/YL	BLACK
170 lb to 200 lb	503 190 483	503 190 485	2	YL/BL/YL	503 189 812	N.A.	BL/GN/YL	BLACK
200 lb to 230 lb	503 190 483	503 190 485	3	YL/BL/YL	503 189 812	N.A.	BL/GN/YL	BLACK
230 lb to 260 lb	503 190 483	503 190 485	4	YL/BL/YL	503 189 812	N.A.	BL/GN/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 716	503 190 718	1	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
220 lb to 250 lb	503 190 716	503 190 718	2	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
250 lb to 280 lb	503 190 716	503 190 718	3	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
280 lb to 310 lb	503 190 716	503 190 718	4	RD/RD	503 189 686	N.A.	RD/SI/YL	BLACK
OPTION 2								
Up to 270 lb	503 190 773	503 190 775	1	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
270 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
300 lb to 330 lb	503 190 773	503 190 775	3	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
330 lb to 360 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	N.A.	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	SUMMIT X (CAN., U.S.) SUMMIT ADRENALINE (CAN., U.S., EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 170 lb	503 190 773	503 190 775	1	GN/GN	503 190 471 503 189 990	1	WH/WH/YL GD/WH/YL	BLACK
170 lb to 200 lb	503 190 773	503 190 775	2	GN/GN	503 190 471 503 189 990	2	WH/WH/YL GD/WH/YL	BLACK
200 lb to 230 lb	503 190 773	503 190 775	3	GN/GN	503 190 471 503 189 990	2	WH/WH/YL GD/WH/YL	BLACK
230 lb to 260 lb	503 190 773	503 190 775	4	GN/GN	503 190 471 503 189 990	3	WH/WH/YL GD/WH/YL	BLACK
260 lb to 275 lb	503 190 773	503 190 775	4	GN/GN	503 190 471 503 189 990	4	WH/WH/YL GD/WH/YL	BLACK
275 lb to 300 lb	503 190 773	503 190 775	4	GN/GN	503 190 471 503 189 990	5	WH/WH/YL GD/WH/YL	BLACK
OPTION 1								
NOTE: New rear springs are in development at time of publication.								
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	SUMMIT HM (CAN., U.S.) SUMMIT HM X (CAN., U.S., EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 170 lb	503 190 773	503 190 775	1	GN/GN	503 190 982 503 190 854	1	GD/YL/RD SI/WH/YL	BLACK
170 lb to 200 lb	503 190 773	503 190 775	2	GN/GN	503 190 982 503 190 854	2	GD/YL/RD SI/WH/YL	BLACK
200 lb to 230 lb	503 190 773	503 190 775	3	GN/GN	503 190 982 503 190 854	2	GD/YL/RD SI/WH/YL	BLACK
230 lb to 260 lb	503 190 773	503 190 775	4	GN/GN	503 190 982 503 190 854	3	GD/YL/RD SI/WH/YL	BLACK
260 lb to 275 lb	503 190 773	503 190 775	4	GN/GN	503 190 982 503 190 854	4	GD/YL/RD SI/WH/YL	BLACK
275 lb to 300 lb	503 190 773	503 190 775	4	GN/GN	503 190 982 503 190 854	5	GD/YL/RD SI/WH/YL	BLACK
OPTION 1								
NOTE: New rear springs are in development at time of publication.								
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	GTX SPORT (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 190 lb	503 191 024	503 191 026	1	SI/SI/SI	503 190 476 503 190 478	1	BL/SI/YL GN/SI/YL	BLACK
190 lb to 250 lb	503 191 024	503 191 026	2	SI/SI/SI	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
250 lb to 300 lb	503 191 024	503 191 026	3	SI/SI/SI	503 190 476 503 190 478	3	BL/SI/YL GN/SI/YL	BLACK
300 lb to 350 lb	503 191 024	503 191 026	4	SI/SI/SI	503 190 476 503 190 478	4	BL/SI/YL GN/SI/YL	BLACK
350 lb to 375 lb	503 191 024	503 191 026	4	SI/SI/SI	503 190 476 503 190 478	5	BL/SI/YL GN/SI/YL	BLACK
OPTION 1								
Up to 240 lb	503 189 681	503 189 683	1	SI/SI	503 189 686	1	RD/SI/YL	BLACK
240 lb to 300 lb	503 189 681	503 189 683	2	SI/SI	503 189 686	2	RD/SI/YL	BLACK
300 lb to 350 lb	503 189 681	503 189 683	3	SI/SI	503 189 686	3	RD/SI/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	4	RD/SI/YL	BLACK
400 lb to 425 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	5	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	LEGEND GT (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 190 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 659	1	BL/RD/YL	BLACK
190 lb to 250 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 659	2	BL/RD/YL	BLACK
250 lb to 300 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 659	3	BL/RD/YL	BLACK
300 lb to 350 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	4	BL/RD/YL	BLACK
350 lb to 375 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	5	BL/RD/YL	BLACK
OPTION 1								
Up to 240 lb	503 190 773	503 190 775	1	GN/GN	503 189 686	1	RD/SI/YL	BLACK
240 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 686	2	RD/SI/YL	BLACK
300 lb to 350 lb	503 190 773	503 190 775	3	GN/GN	503 189 686	3	RD/SI/YL	BLACK
350 lb to 400 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	4	RD/SI/YL	BLACK
400 lb to 425 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	5	RD/SI/YL	BLACK
OPTION 2								
Up to 290 lb	503 189 681	503 189 683	1	SI/SI	503 189 686	1	RD/SI/YL	BLACK
290 lb to 350 lb	503 189 681	503 189 683	2	SI/SI	503 189 686	2	RD/SI/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	3	SI/SI	503 189 686	3	RD/SI/YL	BLACK
400 lb to 450 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	4	RD/SI/YL	BLACK
450 lb to 475 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	5	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

LEGEND GT SE (CAN., U.S.)								
REAR SPRING					CENTER SPRING			
RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR	
STANDARD								
Up to 190 lb	503 190 492	503 190 494	1	BL/BL/BL	503 189 659	1	BL/RD/YL	BLACK
190 lb to 250 lb	503 190 492	503 190 494	2	BL/BL/BL	503 189 659	2	BL/RD/YL	BLACK
250 lb to 300 lb	503 190 492	503 190 494	3	BL/BL/BL	503 189 659	3	BL/RD/YL	BLACK
300 lb to 350 lb	503 190 492	503 190 494	4	BL/BL/BL	503 189 659	4	BL/RD/YL	BLACK
350 lb to 375 lb	503 190 492	503 190 494	4	BL/BL/BL	503 189 659	5	BL/RD/YL	BLACK
OPTION 1								
Up to 240 lb	503 190 773	503 190 775	1	GN/GN	503 189 686	1	RD/SI/YL	BLACK
240 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 686	2	RD/SI/YL	BLACK
300 lb to 350 lb	503 190 773	503 190 775	3	GN/GN	503 189 686	3	RD/SI/YL	BLACK
350 lb to 400 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	4	RD/SI/YL	BLACK
400 lb to 425 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	5	RD/SI/YL	BLACK
OPTION 2								
Up to 290 lb	503 189 681	503 189 683	1	SI/SI	503 189 686	1	RD/SI/YL	BLACK
290 lb to 350 lb	503 189 681	503 189 683	2	SI/SI	503 189 686	2	RD/SI/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	3	SI/SI	503 189 686	3	RD/SI/YL	BLACK
400 lb to 450 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	4	RD/SI/YL	BLACK
450 lb to 475 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	5	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	MX Z TRAIL (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 170 lb	503 190 334	503 190 335	1	YL/RD/RD	503 189 686	1	RD/SI/YL	BLACK
170 lb to 200 lb	503 190 334	503 190 335	2	YL/RD/RD	503 189 686	2	RD/SI/YL	BLACK
200 lb to 230 lb	503 190 334	503 190 335	3	YL/RD/RD	503 189 686	2	RD/SI/YL	BLACK
230 lb to 260 lb	503 190 334	503 190 335	4	YL/RD/RD	503 189 686	2	RD/SI/YL	BLACK
260 lb to 275 lb	503 190 334	503 190 335	4	YL/RD/RD	503 189 686	3	RD/SI/YL	BLACK
275 lb to 290 lb	503 190 334	503 190 335	4	YL/RD/RD	503 189 686	4	RD/SI/YL	BLACK
290 lb to 300 lb	503 190 334	503 190 335	4	YL/RD/RD	503 189 686	5	RD/SI/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 716	503 190 718	1	RD/RD	503 189 686	1	RD/SI/YL	BLACK
220 lb to 250 lb	503 190 716	503 190 718	2	RD/RD	503 189 686	2	RD/SI/YL	BLACK
250 lb to 280 lb	503 190 716	503 190 718	3	RD/RD	503 189 686	2	RD/SI/YL	BLACK
280 lb to 310 lb	503 190 716	503 190 718	4	RD/RD	503 189 686	2	RD/SI/YL	BLACK
310 lb to 325 lb	503 190 716	503 190 718	4	RD/RD	503 189 686	3	RD/SI/YL	BLACK
325 lb to 340 lb	503 190 716	503 190 718	4	RD/RD	503 189 686	4	RD/SI/YL	BLACK
340 lb to 350 lb	503 190 716	503 190 718	4	RD/RD	503 189 686	5	RD/SI/YL	BLACK
OPTION 2								
Up to 270 lb	503 190 773	503 190 775	1	GN/GN	503 189 686	1	RD/SI/YL	BLACK
270 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 686	2	RD/SI/YL	BLACK
300 lb to 330 lb	503 190 773	503 190 775	3	GN/GN	503 189 686	2	RD/SI/YL	BLACK
330 lb to 360 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	2	RD/SI/YL	BLACK
360 lb to 375 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	3	RD/SI/YL	BLACK
375 lb to 390 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	4	RD/SI/YL	BLACK
390 lb to 400 lb	503 190 773	503 190 775	4	GN/GN	503 189 686	5	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	LEGEND SPORT (CAN., U.S.) LEGEND SE (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 170 lb	503 190 329	503 190 331	1	RD/SI/YL	503 189 659	1	BL/RD/YL	BLACK
170 lb to 200 lb	503 190 329	503 190 331	2	RD/SI/YL	503 189 659	2	BL/RD/YL	BLACK
200 lb to 230 lb	503 190 329	503 190 331	3	RD/SI/YL	503 189 659	3	BL/RD/YL	BLACK
230 lb to 260 lb	503 190 329	503 190 331	4	RD/SI/YL	503 189 659	5	BL/RD/YL	BLACK
260 lb to 270 lb	503 190 329	503 190 331	4	RD/SI/YL	503 189 659	6	BL/RD/YL	BLACK
270 lb to 280 lb	503 190 329	503 190 331	4	RD/SI/YL	503 189 659	7	BL/RD/YL	BLACK
OPTION 1								
Up to 220 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK
280 lb to 310 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	5	BL/RD/YL	BLACK
310 lb to 320 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	6	BL/RD/YL	BLACK
320 lb to 330 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	7	BL/RD/YL	BLACK
OPTION 2								
Up to 270 lb	503 189 327	503 189 329	1	SI	503 189 659	1	BL/RD/YL	BLACK
270 lb to 300 lb	503 189 327	503 189 329	2	SI	503 189 659	2	BL/RD/YL	BLACK
300 lb to 330 lb	503 189 327	503 189 329	3	SI	503 189 659	3	BL/RD/YL	BLACK
330 lb to 360 lb	503 189 327	503 189 329	4	SI	503 189 659	5	BL/RD/YL	BLACK
360 lb to 370 lb	503 189 327	503 189 329	4	SI	503 189 659	6	BL/RD/YL	BLACK
370 lb to 380 lb	503 189 327	503 189 329	4	SI	503 189 659	7	BL/RD/YL	BLACK
OPTION 3								
Up to 320 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	1	BL/RD/YL	BLACK
320 lb to 350 lb	503 189 681	503 189 683	2	SI/SI	503 189 659	2	BL/RD/YL	BLACK
350 lb to 380 lb	503 189 681	503 189 683	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK
380 lb to 410 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	5	BL/RD/YL	BLACK
410 lb to 420 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	6	BL/RD/YL	BLACK
420 lb to 430 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	7	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	GTX LTD (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 250 lb	503 189 350	503 189 351	1	GD/GD	503 190 476 503 190 478	1	BL/SI/YL GN/SI/YL	BLACK
250 lb to 350 lb	503 189 350	503 189 351	2	GD/GD	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
350 lb to 450 lb	503 189 350	503 189 351	3	GD/GD	503 190 476 503 190 478	3	BL/SI/YL GN/SI/YL	BLACK
450 lb to 550 lb	503 189 350	503 189 351	4	GD/GD	503 190 476 503 190 478	4	BL/SI/YL GN/SI/YL	BLACK
550 lb to 575 lb	503 189 350	503 189 351	4	GD/GD	503 190 476 503 190 478	5	BL/SI/YL GN/SI/YL	BLACK
OPTION 1								
Up to 300 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 659	1	BL/RD/YL	BLACK
300 lb to 400 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 659	2	BL/RD/YL	BLACK
400 lb to 500 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 659	3	BL/RD/YL	BLACK
500 lb to 600 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	4	BL/RD/YL	BLACK
600 lb to 625 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	5	BL/RD/YL	BLACK
OPTION 2								
Up to 350 lb	503 191 026	503 191 024	1	SI/SI/SI	503 189 659	1	BL/RD/YL	BLACK
350 lb to 450 lb	503 191 026	503 191 024	2	SI/SI/SI	503 189 659	2	BL/RD/YL	BLACK
450 lb to 550 lb	503 191 026	503 191 024	3	SI/SI/SI	503 189 659	3	BL/RD/YL	BLACK
550 lb to 650 lb	503 191 026	503 191 024	4	SI/SI/SI	503 189 659	4	BL/RD/YL	BLACK
650 lb to 675 lb	503 191 026	503 191 024	4	SI/SI/SI	503 189 659	5	BL/RD/YL	BLACK
OPTION 3								
Up to 400 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	1	BL/RD/YL	BLACK
400 lb to 500 lb	503 189 681	503 189 683	2	SI/SI	503 189 659	2	BL/RD/YL	BLACK
500 lb to 600 lb	503 189 681	503 189 683	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK
600 lb to 700 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	4	BL/RD/YL	BLACK
700 lb to 725 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	GSX SPORT (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 170 lb	503 190 712	503 190 714	1	BL/BL	503 190 476 503 190 478	1	BL/SI/YL GN/SI/YL	BLACK
170 lb to 200 lb	503 190 712	503 190 714	2	BL/BL	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
200 lb to 230 lb	503 190 712	503 190 714	3	BL/BL	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
230 lb to 260 lb	503 190 712	503 190 714	4	BL/BL	503 190 476 503 190 478	2	BL/SI/YL GN/SI/YL	BLACK
260 lb to 275 lb	503 190 712	503 190 714	4	BL/BL	503 190 476 503 190 478	3	BL/SI/YL GN/SI/YL	BLACK
275 lb to 290 lb	503 190 712	503 190 714	4	BL/BL	503 190 476 503 190 478	4	BL/SI/YL GN/SI/YL	BLACK
290 lb to 300 lb	503 190 712	503 190 714	4	BL/BL	503 190 476 503 190 478	5	BL/SI/YL GN/SI/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 716	503 190 718	1	RD/RD	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 716	503 190 718	2	RD/RD	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 716	503 190 718	3	RD/RD	503 189 659	2	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	2	BL/RD/YL	BLACK
310 lb to 325 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	3	BL/RD/YL	BLACK
325 lb to 340 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	4	BL/RD/YL	BLACK
340 lb to 350 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	5	BL/RD/YL	BLACK
OPTION 2								
Up to 270 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
270 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
300 lb to 330 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
330 lb to 360 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
360 lb to 375 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
375 lb to 390 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
390 lb to 400 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	GTX LTD (EUROPE) GTX SPORT (EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL- OR
STANDARD								
Up to 250 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 812	1	BL/GN/YL	BLACK
250 lb to 350 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 812	2	BL/GN/YL	BLACK
350 lb to 450 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 812	3	BL/GN/YL	BLACK
450 lb to 550 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 812	4	BL/GN/YL	BLACK
550 lb to 575 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 812	5	BL/GN/YL	BLACK
OPTION 1								
Up to 300 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 659	1	BL/RD/YL	BLACK
300 lb to 400 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 659	2	BL/RD/YL	BLACK
400 lb to 500 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 659	3	BL/RD/YL	BLACK
500 lb to 600 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	4	BL/RD/YL	BLACK
600 lb to 625 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	5	BL/RD/YL	BLACK
OPTION 2								
Up to 350 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	1	BL/RD/YL	BLACK
350 lb to 450 lb	503 189 681	503 189 683	2	SI/SI	503 189 659	2	BL/RD/YL	BLACK
450 lb to 550 lb	503 189 681	503 189 683	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK
550 lb to 650 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	4	BL/RD/YL	BLACK
650 lb to 675 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	GSX LTD (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 170 lb	503 190 334	503 190 335	1	YL/RD/RD	503 190 476 503 190 478	1	BL/SI/YL GN/SI/BK	BLACK
170 lb to 200 lb	503 190 334	503 190 335	2	YL/RD/RD	503 190 476 503 190 478	2	BL/SI/YL GN/SI/BK	BLACK
200 lb to 230 lb	503 190 334	503 190 335	3	YL/RD/RD	503 190 476 503 190 478	2	BL/SI/YL GN/SI/BK	BLACK
230 lb to 260 lb	503 190 334	503 190 335	4	YL/RD/RD	503 190 476 503 190 478	2	BL/SI/YL GN/SI/BK	BLACK
260 lb to 275 lb	503 190 334	503 190 335	4	YL/RD/RD	503 190 476 503 190 478	3	BL/SI/YL GN/SI/BK	BLACK
275 lb to 290 lb	503 190 334	503 190 335	4	YL/RD/RD	503 190 476 503 190 478	4	BL/SI/YL GN/SI/BK	BLACK
290 lb to 300 lb	503 190 334	503 190 335	4	YL/RD/RD	503 190 476 503 190 478	5	BL/SI/YL GN/SI/BK	BLACK
OPTION 1								
Up to 220 lb	503 190 716	503 190 718	1	RD/RD	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 716	503 190 718	2	RD/RD	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 716	503 190 718	3	RD/RD	503 189 659	2	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	2	BL/RD/YL	BLACK
310 lb to 325 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	3	BL/RD/YL	BLACK
325 lb to 340 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	4	BL/RD/YL	BLACK
340 lb to 350 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	5	BL/RD/YL	BLACK
OPTION 2								
Up to 270 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
270 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
300 lb to 330 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
330 lb to 360 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
360 lb to 375 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
375 lb to 390 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
390 lb to 400 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	SUMMIT FAN (CAN., U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 170 lb	503 190 334	503 190 335	1	YL/RD/RD	503 189 325	N.A.	YL/SI/YL	BLACK
170 lb to 200 lb	503 190 334	503 190 335	2	YL/RD/RD	503 189 325	N.A.	YL/SI/YL	BLACK
200 lb to 230 lb	503 190 334	503 190 335	3	YL/RD/RD	503 189 325	N.A.	YL/SI/YL	BLACK
230 lb to 260 lb	503 190 334	503 190 335	4	YL/RD/RD	503 189 325	N.A.	YL/SI/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 716	503 190 718	1	RD/RD	503 189 659	N.A.	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 716	503 190 718	2	RD/RD	503 189 659	N.A.	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 716	503 190 718	3	RD/RD	503 189 659	N.A.	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 716	503 190 718	4	RD/RD	503 189 659	N.A.	BL/RD/YL	BLACK
OPTION 2								
Up to 270 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
270 lb to 300 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
300 lb to 330 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
330 lb to 360 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	N.A.	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	LEGEND GT SE (EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COLOR
STANDARD								
Up to 190 lb	503 189 992	503 189 994	1	GN/RD/YL	503 189 659	1	BL/RD/YL	BLACK
190 lb to 250 lb	503 189 992	503 189 994	2	GN/RD/YL	503 189 659	2	BL/RD/YL	BLACK
250 lb to 300 lb	503 189 992	503 189 994	3	GN/RD/YL	503 189 659	3	BL/RD/YL	BLACK
300 lb to 350 lb	503 189 992	503 189 994	4	GN/RD/YL	503 189 659	4	BL/RD/YL	BLACK
350 lb to 375 lb	503 189 992	503 189 994	4	GN/RD/YL	503 189 659	5	BL/RD/YL	BLACK
OPTION 1								
Up to 240 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 686	1	RD/SI/YL	BLACK
240 lb to 300 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 686	2	RD/SI/YL	BLACK
300 lb to 350 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 686	3	RD/SI/YL	BLACK
350 lb to 400 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 686	4	RD/SI/YL	BLACK
400 lb to 425 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 686	5	RD/SI/YL	BLACK
OPTION 2								
Up to 290 lb	503 189 681	503 189 683	1	SI/SI	503 189 686	1	RD/SI/YL	BLACK
290 lb to 350 lb	503 189 681	503 189 683	2	SI/SI	503 189 686	2	RD/SI/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	3	SI/SI	503 189 686	3	RD/SI/YL	BLACK
400 lb to 450 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	4	RD/SI/YL	BLACK
450 lb to 475 lb	503 189 681	503 189 683	4	SI/SI	503 189 686	5	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK /BL = BLUE /GD = GOLD /GN = GREEN /OR = ORANGE /PI = PINK /RD = RED /SI = SILVER /WH = WHITE /YL = YELLOW								

	MXZ X (CAN. U.S.)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 170 lb	503 190 777	503 190 779	1	GN/YL	503 189 325	1	YL/SI/YL	BLACK
170 lb to 200 lb	503 190 777	503 190 779	2	GN/YL	503 189 325	2	YL/SI/YL	BLACK
200 lb to 230 lb	503 190 777	503 190 779	3	GN/YL	503 189 325	2	YL/SI/YL	BLACK
230 lb to 260 lb	503 190 777	503 190 779	4	GN/YL	503 189 325	2	YL/SI/YL	BLACK
260 lb to 275 lb	503 190 777	503 190 779	4	GN/YL	503 189 325	3	YL/SI/YL	BLACK
275 lb to 290 lb	503 190 777	503 190 779	4	GN/YL	503 189 325	4	YL/SI/YL	BLACK
290 lb to 300 lb	503 190 777	503 190 779	4	GN/YL	503 189 325	5	YL/SI/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
310 lb to 325 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
325 lb to 340 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
340 lb to 350 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK

	MXZ X (EUROPE)							
	REAR SPRING				CENTER SPRING			
	RIGHT P/N	LEFT P/N	C.P.	COLOR CODE	P/N	C.P.	COLOR CODE	COL-OR
STANDARD								
Up to 170 lb	503 190 777	503 190 779	1	GN/YL	503 190 471 503 190 854	1	WH/WH/YL SI/WH/YL	BLACK
170 lb to 200 lb	503 190 777	503 190 779	2	GN/YL	503 190 471 503 190 854	2	WH/WH/YL SI/WH/YL	BLACK
200 lb to 230 lb	503 190 777	503 190 779	3	GN/YL	503 190 471 503 190 854	2	WH/WH/YL SI/WH/YL	BLACK
230 lb to 260 lb	503 190 777	503 190 779	4	GN/YL	503 190 471 503 190 854	2	WH/WH/YL SI/WH/YL	BLACK
260 lb to 275 lb	503 190 777	503 190 779	4	GN/YL	503 190 471 503 190 854	3	WH/WH/YL SI/WH/YL	BLACK
275 lb to 290 lb	503 190 777	503 190 779	4	GN/YL	503 190 471 503 190 854	4	WH/WH/YL SI/WH/YL	BLACK
290 lb to 300 lb	503 190 777	503 190 779	4	GN/YL	503 190 471 503 190 854	5	WH/WH/YL SI/WH/YL	BLACK
OPTION 1								
Up to 220 lb	503 190 773	503 190 775	1	GN/GN	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 190 773	503 190 775	2	GN/GN	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 190 773	503 190 775	3	GN/GN	503 189 659	2	BL/RD/YL	BLACK
280 lb to 310 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	2	BL/RD/YL	BLACK
310 lb to 325 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	3	BL/RD/YL	BLACK
325 lb to 340 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	4	BL/RD/YL	BLACK
340 lb to 350 lb	503 190 773	503 190 775	4	GN/GN	503 189 659	5	BL/RD/YL	BLACK

Please route to:

<input type="checkbox"/> Service	Init.	<input type="checkbox"/>
<input type="checkbox"/> Sales		<input type="checkbox"/>
<input type="checkbox"/> Parts		<input type="checkbox"/>



Date: **October 4, 2004**

Subject: **High Altitude / Sea Level Specifications**

No. **2005-6**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All	All	All

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GENERAL INFORMATION

This bulletin supplies all information **required to modify** above mentioned models for **high altitude and/or sea level** riding.

For 2004 models, refer to *Service Bulletin 2004-2 Rev 1*.

For 2003 models, refer to *Service Bulletin 2003-5 Rev 1*.

For 2002 models, refer to *Service Bulletin 2002-5*.

For 2001 models, refer to *Service Bulletins 2001-1 Rev. 1* and *2001-2 Rev. 1*.

For 2000 models, refer to *Service Bulletins 2000-1 Rev. 1* and *2000-2*.

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

CAUTION: The following modifications and adjustments apply for high altitude operation as well as sea level operation.

**PARTS COST AND LABOR ARE NOT COVERED
BY BOMBARDIER LIMITED WARRANTY.**



Photo shows the 2 different types of weight used in *Bombardier Lite* clothes.

Refer to pages 4, 5, 7, 8, 9, 11, 12, and 13.

Use the following page procedure when idle speed screw adjustment is required.

IDLE SPEED SCREW ADJUSTMENT

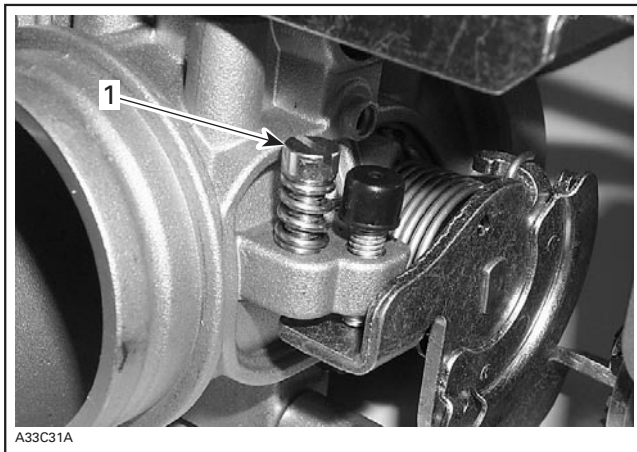
NOTE: This operation performs a reset of the values in the ECM.

This reset is very important. The setting of the TPS will determine the basic parameters for all fuel mapping and several ECM calculations in idle speed control of the engine.

CAUTION: An improperly set TPS may lead to poor engine performance.

Remove the air intake silencer.

Disconnect the air valve connector.



Unscrew idle speed screw [1] until the throttle body plate stop lever rests against its zero position stopper screw (capped screw). If necessary, loosen the throttle cable. Open throttle approximately one quarter then quickly release. Repeat 2 - 3 times to settle throttle plate.

CAUTION: Never attempt to adjust the zero position stopper screw (the capped one).

Use the vehicle communication kit (VCK) with B.U.D.S. to perform this adjustment.

Select the vehicle's protocol in **Choose Protocol** from the **MPI** menu. The protocol is KW 2000.

Remove the protective cap from the 6 pin connector on the vehicle.

Connect the B.U.D.S. harness 6 pin adapter directly to the 6 pin vehicle connector.

Turn the engine shutdown switch to the engine off position.

Insert the grey DESS cap (P/N 529 035 896).

Press the start button to wake up the ECM.

Press the **Read Data** button.

Click on **Setting** tab.

Push the **Reset** button in the **Throttle Opening** section box.

The following message will be displayed: **Make sure the idle screw is not in contact with the throttle stopper.** Click OK to continue.

Follow instructions and click OK.

Another message will appear to ask you to perform an ECU tracking shut down to save the changes into the ECU permanent memory.

Remove the tether cord cap from the DESS post and wait until the message disappears before reinserting the tether cord cap.

Power up the ECM by pushing the START/RER button momentarily.

The throttle opening displayed in B.U.D.S. should be 0.00 (0.05 maximum).

If TPS is not within the allowed range while resetting the **Closed Throttle**, the ECM will generate a fault code and will not accept the setting.

Now, the idle speed screw has to be adjusted. To do this, screw in the idle speed screw until B.U.D.S. throttle opening displays value as per following table:

At and above 1800 m (6000 ft)		
YEAR	ENGINE TYPE	VALUE
2004	593 SDI	4.1° (± 0.1°)
2005		4.9° (± 0.1°)

Ensure to save new data by clicking on the **Write Data** button.

If throttle cable has been loosened during the procedure, adjust throttle cable.

Reinstall all removed parts. Start engine and make sure it operates normally through its full engine RPM range.

TUNDRA R

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	⇐	⇐	⇐	⇐	⇐
Block	417 114 300	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	5 x 417 114 400	4 x 417 114 400	3 x 417 114 400	2 x 417 114 400	1 x 417 114 400	⇐
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3000	3100	3200	3300	⇐	⇐
Maximum RPM ± 100	6900	⇐	⇐	⇐	⇐	⇐

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 414 094 300	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	37.8° 417 126 350	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	200	195	185	160	150	140	1	
Jet needle	6DH4	⇐	⇐	⇐	⇐	⇐	1	
Needle position	3	⇐	⇐	2	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—	
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	1	
Mixture screw	1.0	⇐	⇐	0.75	⇐	⇐	—	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—	
Needle jet	0-8 (159)	⇐	⇐	⇐	⇐	⇐	1	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	220	210	200	180	170	160	—
-30°C -20°F	210	200	190	170	160	150	—
-20°C -4°F	200	195	185	160	150	140	—
-10°C 14°F	195	190	180	155	145	135	—
0°C 32°F	190	185	175	150	140	130	—
10°C 50°F	180	175	165	140	130	120	—
20°C 70°F	175	170	160	135	125	115	—

MXZ 380 F / GSX 380 F / GTX 380 F (136)

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 on Violet 414 916 300	⇐	⇐	Blue/Blue on Violet 414 689 400	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	1 x 417 114 400 1 x 417 120 400	1 x 417 120 400	4 x 417 114 400	2 x 417 120 400	1 x 417 120 400	⇐
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3300	3500	3600	3800	⇐	⇐
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	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5 0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam angle	44° (long) (degrees) 417 126 333	⇐	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude → Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	195	180	170	155	145	130	2	
Jet needle	6DEY13	⇐	⇐	⇐	⇐	⇐	2	
Needle position	3	⇐	2	⇐	⇐	⇐	—	
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—	
Pilot jet	35	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	⇐	⇐	—	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—	
Needle jet	Q-2	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.7	1.8	1.9	2.0	⇐	2.1	—

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	205	190	180	165	155	140	PTO MAG
-30°C -20°F	200	185	175	160	150	135	PTO MAG
-20°C -4°F	195	180	170	155	145	130	PTO MAG
-10°C 14°F	190	175	165	150	140	125	PTO MAG
0°C 32°F	185	170	160	145	135	120	PTO MAG
10°C 50°F	180	165	155	140	130	115	PTO MAG
20°C 70°F	180	165	155	140	130	115	PTO MAG

SKANDIC LT

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	Silver/Black M140032	⇐	⇐	Purple M207758A	⇐	⇐
Weight	M140030	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3200	⇐	⇐	⇐	⇐	⇐
Maximum RPM ± 100	6800	⇐	⇐	⇐	⇐	⇐

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 415 092 800	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	40°	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	180	170	155	145	130	120	2
Jet needle	6DGY12	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	2	⇐	⇐	⇐	—
Slide cut-away	3.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	50	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	1.5	1.75	⇐	2.0	⇐	⇐	2
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	0-0 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	23.9	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1800	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.4	1.6	1.8	⇐	2.0	⇐

Main Jet Chart

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

MXZ 550 F / GSX 550 F

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	Purple/Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400	1 x 417 120 400	⇐	5 x 417 114 400	3 x 417 114 400
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3500	⇐	3600	⇐	3800	⇐
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	White 505 152 070	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	44° long (degrees) 417 126 718	⇐	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (159)	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.6	1.7	1.8	1.9	2.1	2.4	—

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	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

SUMMIT 550 F 136

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	⇐	⇐	⇐	Purple/Yellow 415 015 300	⇐	⇐
Block	⇐	⇐	⇐	417 118 100	⇐	⇐
Weight (refer to photo on page 2)	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	1 x 417 120 400	5 x 417 114 400	3 x 417 114 400	2 x 417 114 400
Capsule	⇐	⇐	⇐	1 x 417 114 500	⇐	⇐
Engagement RPM ± 100	3500	3600	3700	3800	3900	⇐
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	⇐	⇐	⇐	White 505 152 070	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	⇐	⇐	0.0	⇐	⇐
Cam angle	° (degrees)	⇐	⇐	44° long 417 126 718	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude → Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	260	250	240	220	190	175	2	
Jet needle	⇐	⇐	⇐	6BCY40	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	⇐	⇐	⇐	2.5	⇐	⇐	2	
Pilot jet	⇐	⇐	⇐	45	⇐	⇐	2	
Mixture screw	⇐	⇐	⇐	2.0	1.5	1.0	2	
Valve seat	⇐	⇐	⇐	1.2	⇐	⇐	2	
Needle jet	⇐	⇐	⇐	P-7 (159)	⇐	⇐	2	
Float level	mm	⇐	⇐	23.9	⇐	⇐	—	
Idle	RPM ± 200	⇐	⇐	1650	⇐	⇐	—	
Idle throttle valve position	mm	1.6	1.7	1.8	1.9	2.1	2.4	—

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	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

SKANDIC FC WT / SWT / SUV

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 / Green 414 742 100	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	4 x 417 114 400 1 x 417 120 400	3 x 417 114 400 1 x 417 120 400	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	5 x 417 114 400	3 x 417 114 400
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3000	⇐	3100	3200	3300	3400
Maximum RPM ± 100	6950	⇐	⇐	⇐	⇐	⇐

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	Blue (ACS 3-188) 417 119 100	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 kg 15.4lb	⇐	⇐	⇐	⇐
Cam angle	(degrees)	40°- 35°	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	190	180	170	150	140	130	2	
Jet needle	6DH4	⇐	⇐	⇐	⇐	⇐	2	
Needle position	2	⇐	⇐	1	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-0 (159)	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.6	1.7	1.8	1.9	2.0	2.1	—

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	210	200	190	170	160	150	PTO MAG
-30°C -20°F	200	190	180	160	150	140	PTO MAG
-20°C -4°F	190	180	170	150	140	130	PTO MAG
-10°C 14°F	180	170	160	140	130	120	PTO MAG
0°C 32°F	170	160	150	130	120	110	PTO MAG
10°C 50°F	160	150	140	120	110	100	PTO MAG
20°C 70°F	150	140	130	110	100	90	PTO MAG

SKANDIC SUV / WT LC

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow / Red 414 993 000	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 444 (600)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	2	3	4
Pin	417 222 594 (Solid-Long)	⇐	⇐	417 222 595 (Hollow- Threaded) 1 x 206 262 099 set screw	⇐	⇐
Engagement RPM ± 100	2800	⇐	⇐	3000	⇐	⇐
Maximum RPM ± 100	7100	⇐	⇐	⇐	⇐	⇐

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	Blue (ACS 3-188) 417 119 100	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 kg 15.4lb	⇐	⇐	⇐	⇐
Cam angle	(degrees)	35°- 30°	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude → Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	330	300	280	250	230	200	2	
Jet needle	6DGL24	⇐	⇐	⇐	⇐	⇐	2	
Needle position	3	⇐	⇐	⇐	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	⇐	2	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	480 P-9	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	18.1	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1900	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

Main Jet Chart

Altitude → Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	350	320	300	270	250	220	PTO MAG
-30°C -20°F	340	310	290	260	240	210	PTO MAG
-20°C -4°F	330	300	280	250	230	200	PTO MAG
-10°C 14°F	320	290	270	240	220	190	PTO MAG
0°C 32°F	310	280	260	230	210	180	PTO MAG
10°C 50°F	300	270	250	220	200	170	PTO MAG
20°C 70°F	290	260	240	210	190	160	PTO MAG

EXPEDITION SPORT 550 F

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	Purple–Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	⇐	1 x 417 120 400	5 x 417 114 400	3 x 417 114 400
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3300	⇐	3400	3500	3600	⇐
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	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	44° (long) 417 126 718	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (159)	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.6	1.7	1.8	1.9	2.1	2.4	—

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	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

GTX 550 F 136

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/Orange 414 639 000	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	1 x 417 120 400	5 x 417 114 400	4 x 417 114 400	3 x 417 114 400
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3000	⇐	3100	3200	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	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	44° (long) 417 126 718	⇐	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (159)	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.6	1.7	1.8	1.9	2.1	2.4	—

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	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

SUMMIT 550 F 136 (EUROPE)

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/Orange 414 639 000	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	4 x 417 114 400 1 x 4 17 120 400	3 x 417 114 400 1 x 417 120 400	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	5 x 417 114 400	3 x 417 114 400
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3000	⇐	3500	3600	3700	3800
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	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	44° (long) 417 126 718	⇐	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (159)	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.6	1.7	1.8	1.9	2.1	2.4	—

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	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

MXZ 500 SS R TRAIL / ADRENALINE / TRAIL (EUROPE)

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/White 417 222 371	↔	↔	↔	Pink/White 414 991 400	↔
Ramp	417 222 515 (412)	↔	↔	↔	↔	↔
Calibration Screw Position	3	3	4	5	4	4
Pin	417 004 308 (Solid)	↔	↔	↔	417 004 309 (Hollow)	↔
Engagement RPM ± 100	3800	↔	3900	↔	4100	↔
Maximum RPM ± 100	8000	↔	↔	↔	↔	↔

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	Green/Green 417 126 801	↔	↔	↔	↔	↔
Spring tension	Kg ± 0.7 lb ± 1.5	↔	↔	↔	↔	↔
Cam angle	° (degrees)	44° (long- anodised) 417 126 747	↔	↔	↔	↔

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	360	340	320	300	280	250	2
Jet needle	9DGM15-58	↔	↔	↔	↔	↔	2
Needle position	1	↔	↔	↔	↔	↔	—
Slide cut-away	2.0	↔	↔	↔	↔	↔	2
Pilot jet	17.5	↔	↔	↔	↔	↔	2
Mixture screw	na	↔	↔	2.0	↔	↔	—
Valve seat	1.5	↔	↔	↔	↔	↔	2
Needle jet	P-0M	↔	↔	↔	↔	↔	2
Float level	mm	na	↔	↔	↔	↔	—
Idle	RPM ± 200	1600	↔	↔	↔	↔	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	↔

Main Jet Chart

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

GSX 500 SS R SPORT / GTX 500 SS R SPORT 136 (N-A / EUROPE)

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	Purple/Pink 414 949 500	⇐	⇐	Pink/White 414 991 400	⇐	⇐
Ramp	417 222 515 (412)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	4	5	6	4	5	6
Pin	417 004 308 (Solid)	⇐	⇐	⇐	417 004 309 (Hollow)	⇐
Engagement RPM ± 100	3400	⇐	3900	⇐	⇐	⇐
Maximum RPM ± 100	8000	⇐	⇐	⇐	⇐	⇐

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	Green/Green 417 126 801	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	44° (long- anodised) 417 126 747	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	360	340	320	300	280	250	2
Jet needle	9DGM15-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	1	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	na	⇐	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1600	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	⇐

Main Jet Chart

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

MXZ 600 HO R TRAIL / ADRENALINE / X / GSX 600 R SPORT / GTX 600 R SPORT 136

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	Purple/Blue 415 034 900	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow) 4 x 206 260 699 set screw	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3800	3900	4000	4100	⇐	4200
Maximum RPM ± 100	8000	⇐	⇐	⇐	⇐	⇐

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	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	47°-44° 417 126 385	⇐	⇐	44° 417 126 445	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	360	340	320	290	270	2
Jet needle	9DHI14-58	⇐	⇐	9DHI12-58	⇐	⇐	2
Needle position	1	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	na	⇐	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1600	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.6	⇐	1.7	⇐	1.8	—

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	410	390	370	340	320	300	PTO MAG
-30°C -20°F	400	370	350	330	300	280	PTO MAG
-20°C -4°F	380	360	340	320	290	270	PTO MAG
-10°C 14°F	370	340	320	300	280	250	PTO MAG
0°C 32°F	350	330	300	280	260	250	PTO MAG
10°C 50°F	340	320	290	270	250	220	PTO MAG
20°C 70°F	320	300	280	250	230	210	PTO MAG

MXZ 600 HO R 1.25

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	Purple/Blue 415 034 900	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow) 4 x 206 260 699 set screw	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3800	3900	4000	4100	⇐	4200
Maximum RPM ± 100	8000	⇐	⇐	⇐	⇐	⇐

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	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	44° (degrees)	417 126 445	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	360	340	320	290	270	2
Jet needle	9DH114-58	⇐	⇐	9DH112-58	⇐	⇐	2
Needle position	1	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	na	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1600	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.6	⇐	1.7	⇐	1.8	—

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	410	390	370	340	320	300	PTO MAG
-30°C -20°F	400	370	350	330	300	280	PTO MAG
-20°C -4°F	380	360	340	320	290	270	PTO MAG
-10°C 14°F	370	340	320	300	280	250	PTO MAG
0°C 32°F	350	330	300	280	260	250	PTO MAG
10°C 50°F	340	320	290	270	250	220	PTO MAG
20°C 70°F	320	300	280	250	230	210	PTO MAG

SUMMIT 600 HO R ADRENALINE 144

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/White 417 222 703	⇐	⇐	⇐	⇐
Ramp	⇐	417 222 552 (417)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	3	4	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow) 1 x 206 262 699 set screw	⇐	⇐	417 222 477 (Hollow)	⇐
Engagement RPM ± 100	⇐	3600	⇐	⇐	⇐	⇐
Maximum RPM ± 100	⇐	8000	⇐	⇐	⇐	⇐

Driven Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Red 417 126 686	⇐	⇐	⇐	⇐
Spring tension Kg ± 0.7 lb ± 1.5	⇐	0.0	⇐	⇐	⇐	⇐
Cam angle (degrees)	⇐	47°-44° 417 126 385	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	⇐	380	⇐	⇐	⇐	⇐	2
Jet needle	⇐	9DGK11-58	⇐	⇐	⇐	⇐	2
Needle position	⇐	3	⇐	⇐	⇐	⇐	—
Slide cut-away	⇐	2.0	⇐	⇐	⇐	⇐	2
Pilot jet	⇐	17.5	⇐	⇐	⇐	⇐	2
Mixture screw	⇐	na	⇐	⇐	⇐	⇐	—
Valve seat	⇐	1.5	⇐	⇐	⇐	⇐	2
Needle jet ⇐	P-0M	P-0M	⇐	⇐	⇐	⇐	2
Float level	mm	⇐	na	⇐	⇐	⇐	—
Idle	RPM ± 200	⇐	1600	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.6	2.0	⇐	2.1	2.2	⇐

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	⇐	410	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	⇐	390	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	⇐	380	⇐	⇐	⇐	⇐	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

SUMMIT 600 HO R ADRENALINE 144 (EUROPE)

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	Purple/Blue 415 034 900	↔	↔	↔	↔	↔
Ramp	417 222 596 (410)	↔	↔	417 222 552 (417)	↔	↔
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow)	↔	↔	↔	↔
Engagement RPM ± 100	3800	↔	↔	↔	↔	↔
Maximum RPM ± 100	8000	↔	↔	↔	↔	↔

Driven Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	↔	↔	↔	↔	↔
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	↔	↔	↔	↔
Cam angle	44° (degrees)	417 126 445	↔	↔	↔	↔

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	↔	↔	↔	↔	↔	2
Jet needle	6DGK11-58	↔	↔	↔	↔	↔	2
Needle position	3	↔	↔	↔	↔	↔	—
Slide cut-away	2.0	↔	↔	↔	↔	↔	2
Pilot jet	17.5	↔	↔	↔	↔	↔	2
Mixture screw	na	↔	↔	↔	↔	↔	—
Valve seat	1.5	↔	↔	↔	↔	↔	2
Needle jet	P-0M	↔	↔	↔	↔	↔	2
Float level	mm	na	↔	↔	↔	↔	—
Idle	RPM ± 200	1600	↔	↔	↔	↔	—
Idle throttle valve position	mm	2.0	2.1	↔	2.2	2.3	↔

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	410	↔	↔	↔	↔	↔	PTO MAG
-30°C -20°F	390	↔	↔	↔	↔	↔	PTO MAG
-20°C -4°F	380	↔	↔	↔	↔	↔	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

EXPEDITION TUV 600 SDI

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange 414 689 700	⇐	⇐	Violet/Yellow 415 015 300	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	417 222 515 (412)	⇐	⇐
Calibration Screw Position	3	4	5	4	5	6
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
Engagement RPM ± 100	3000	⇐	⇐	4000	⇐	⇐
Maximum RPM ± 100	8000	⇐	⇐	⇐	⇐	⇐

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	Blue (ACS 3-188) 417 119 100	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	⇐	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	⇐	⇐	⇐	⇐	⇐

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed to 4.9° (± 0.1°).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MXZ 600 SDI R ADRENALINE / X

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	417 222 515 (412)	⇐	⇐
Calibration Screw Position	4	5	6	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
Engagement RPM ± 100	3800	⇐	⇐	4400	⇐	⇐
Maximum RPM ± 100	8000	⇐	⇐	⇐	⇐	⇐

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	Black 417 126 687	⇐	⇐	Violet 414 978 300	⇐	⇐	
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐	
Cam angle	° (degrees)	47°-44° (anodised) 417 126 385	⇐	⇐	40° 417 126 591	⇐	⇐

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed screw to 4.9° (± 0.1°). At and above 2400 m (8000 ft) or in deep snow, you may use 22 tooth sprocket (P/N 504 083 500) to get a chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

GSX 600 SDI R SPORT / LIMITED / GTX SPORT / LIMITED 136 / GTX EUROPE (ALL)

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	⇐	⇐	Violet/Yellow 415 015 300	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	4	5	6	4	5	6
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
Engagement RPM ± 100	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM ± 100	8000	⇐	⇐	⇐	⇐	⇐

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	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	47°-44° (anodised) 417 126 385	⇐	⇐	⇐	⇐

Additional information: At 1800 m (6000 ft) unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed screw to 4.9° (± 0.1°).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MXZ 600 SDI R RENEGADE 1.25 / RENEGADE X 1.25 / RENEGADE 1.75 / RENEGADE X 1.75

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	417 222 515 (412)	⇐	⇐
Calibration Screw Position	4	5	6	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
Engagement RPM ± 100	3800	⇐	⇐	4400	⇐	⇐
Maximum RPM ± 100	8000	⇐	⇐	⇐	⇐	⇐

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	Black 417 126 687	⇐	⇐	Violet 414 978 300	⇐	⇐	
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐	
Cam angle	° (degrees)	44° (anodised) 417 126 445	⇐	⇐	40° 417 126 591	⇐	⇐

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed screw to 4.9° (± 0.1°). At and above 2400 m (8000 ft) or in deep snow, **EXCEPT FOR MXZ 600 HO R SDI Renegade 1.75**, you may use a 19 tooth sprocket (P/N 504 152 030) to get a chaincase ratio of 19/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MXZ 800 HO R ADRENALINE

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 415 015 400	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 546 (414)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid-Long)	⇐	⇐	417 222 595 (Long-Threaded)	⇐	⇐
Engagement RPM ± 100	3800	⇐	⇐	⇐	⇐	⇐
Maximum RPM ± 100	7850	⇐	⇐	⇐	⇐	⇐

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	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	⇐	⇐	⇐	⇐	⇐
Cam angle	50°-40° (degrees) 417 126 721	⇐	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	400	380	350	330	300	280	2
Jet needle	9DGI16-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	1	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1500	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.7	⇐	1.8	⇐	1.9	—

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	430	410	390	360	340	310	PTO MAG
-30°C -20°F	420	390	370	350	320	300	PTO MAG
-20°C -4°F	400	380	350	330	300	280	PTO MAG
-10°C 14°F	390	360	340	310	290	270	PTO MAG
0°C 32°F	370	350	320	290	270	250	PTO MAG
10°C 50°F	350	330	310	280	260	230	PTO MAG
20°C 70°F	340	310	290	270	240	220	PTO MAG

MXZ 800 HO R X

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 415 015 400	↔	↔	↔	↔	↔
Ramp	417 222 546 (414)	↔	↔	↔	↔	↔
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid-Long)	↔	↔	417 222 595 (Long-Threaded)	↔	↔
Engagement RPM ± 100	3800	↔	↔	↔	↔	↔
Maximum RPM ± 100	7850	↔	↔	↔	↔	↔

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	Green 417 126 688	↔	↔	↔	↔	↔
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	↔	↔	↔	↔
Cam angle	(degrees) 50°-40° 417 126 721	↔	↔	↔	↔	↔

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	440	↔	↔	↔	↔	↔	2
Jet needle	9DGI04-58	↔	↔	↔	↔	↔	2
Needle position	na	↔	↔	↔	↔	↔	—
Slide cut-away	2.0	↔	↔	↔	↔	↔	2
Pilot jet	17.5	↔	↔	↔	↔	↔	2
Mixture screw	1.5	↔	↔	↔	↔	↔	—
Valve seat	1.5	↔	↔	↔	↔	↔	2
Needle jet	P-0M	↔	↔	↔	↔	↔	2
Float level	mm na	↔	↔	↔	↔	↔	—
Idle	RPM ± 200	1500	↔	↔	↔	↔	—
Idle throttle valve position	mm	1.7	↔	1.8	↔	1.9	↔

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	↔	↔	↔	↔	↔	↔	PTO MAG
-30°C -20°F	↔	↔	↔	↔	↔	↔	PTO MAG
-20°C -4°F	440	↔	↔	↔	↔	↔	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

MXZ 800 HO R RENEGADE 1.25 / RENEGADE X 1.25

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 415 015 400	⇐	⇐	Green/Violet 414 762 800	⇐	⇐
Ramp	417 222 548 (415)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid-Long)	417 004 308 (Solid)	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3800	⇐	3900	4000	⇐	4100
Maximum RPM ± 100	7850	⇐	⇐	⇐	⇐	⇐

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	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	47°-40° 417 126 724	⇐	⇐	⇐	⇐

Additional information: At and above 2400 m (8000 ft) or in deep snow, you may use a 21 tooth sprocket (P/N 504 096 200) to get a chaincase ratio of 21/43.

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	440	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DG104-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	na	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1500	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.7	⇐	1.8	⇐	1.9	—

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	440	⇐	⇐	⇐	⇐	⇐	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

MXZ 800 HO R RENEGADE X 1.75 / RENEGADE X (EUROPE)

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 415 015 400	⇐	⇐	Green/Violet 414 762 800	⇐	⇐
Ramp	417 222 548 (415)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3800	⇐	4100	4200	⇐	4300
Maximum RPM ± 100	7850	⇐	⇐	⇐	⇐	⇐

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	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	47°-40° 417 126 724	⇐	⇐	⇐	⇐

Additional information: At and above 2400 m (8000 ft) or in deep snow, for **RENEGADE X 1.75 only**, you may use a 19 tooth sprocket (P/N 504 152 030) to get a chaincase ratio of 19/43. At and above 2400 m (8000 ft) or in deep snow, for **RENEGADE Europe Model only**, you may use a 21 tooth sprocket (P/N 504 096 200) to get a chaincase ratio of 21/43.

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	440	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DG104-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	na	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1500	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.7	⇐	1.8	⇐	1.9	—

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	440	⇐	⇐	⇐	⇐	⇐	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

GTX 800 HO R LIMITED 136

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green 414 817 700	↔	↔	Blue/Pink 414 916 300	↔	↔
Ramp	417 222 546 (414)	↔	↔	↔	↔	↔
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid-Long)	↔	↔	417 004 308 (Solid)	↔	↔
Engagement RPM ± 100	3800	↔	↔	↔	↔	↔
Maximum RPM ± 100	7950	↔	↔	↔	↔	↔

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	Green 417 126 688	↔	↔	↔	↔	↔
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	↔	↔	↔	↔
Cam angle	° (degrees)	47°-40° 417 126 724	↔	↔	↔	↔

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	440	↔	↔	↔	↔	↔	2
Jet needle	9EG104-58	↔	↔	↔	↔	↔	2
Needle position	na	↔	↔	↔	↔	↔	—
Slide cut-away	2.0	↔	↔	↔	↔	↔	2
Pilot jet	17.5	↔	↔	↔	↔	↔	2
Mixture screw	1.5	↔	↔	↔	↔	↔	—
Valve seat	1.5	↔	↔	↔	↔	↔	2
Needle jet	P-0M	↔	↔	↔	↔	↔	2
Float level	mm	na	↔	↔	↔	↔	—
Idle	RPM ± 200	1500	↔	↔	↔	↔	—
Idle throttle valve position	mm	1.7	↔	1.8	↔	1.9	↔

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	470	↔	↔	↔	↔	↔	PTO MAG
-30°C -20°F	460	↔	↔	↔	↔	↔	PTO MAG
-20°C -4°F	440	↔	↔	↔	↔	↔	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

GSX 800 HO R LIMITED

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green 414 817 700	↕	↕	↕	↕	↕
Ramp	417 222 546 (414)	↕	↕	↕	↕	↕
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid-Long)	↕	↕	417 004 308 (Solid)	↕	↕
Engagement RPM ± 100	3600	↕	↕	↕	↕	↕
Maximum RPM ± 100	7850	↕	↕	↕	↕	↕

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	Green 417 126 688	↕	↕	↕	↕	↕
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	↕	↕	↕	↕
Cam angle	° (degrees)	50°-40° 417 126 721	↕	↕	↕	↕

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	440	↕	↕	↕	↕	↕	2
Jet needle	9DG104-58	↕	↕	↕	↕	↕	2
Needle position	na	↕	↕	↕	↕	↕	—
Slide cut-away	2.0	↕	↕	↕	↕	↕	2
Pilot jet	17.5	↕	↕	↕	↕	↕	2
Mixture screw	1.5	↕	↕	↕	↕	↕	—
Valve seat	1.5	↕	↕	↕	↕	↕	2
Needle jet	P-0M	↕	↕	↕	↕	↕	2
Float level	mm	na	↕	↕	↕	↕	—
Idle	RPM ± 200	1500	↕	↕	↕	↕	—
Idle throttle valve position	mm	1.7	↕	1.8	↕	1.9	↕

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	↕	↕	↕	↕	↕	↕	PTO MAG
-30°C -20°F	↕	↕	↕	↕	↕	↕	PTO MAG
-20°C -4°F	440	↕	↕	↕	↕	↕	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

SUMMIT 800 HO R ADRENALINE 144, 151 / X 144, 151

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	↔	Violet/Yellow 415 015 300	↔	↔	↔	↔
Ramp	↔	417 222 548 (415)	↔	↔	↔	↔
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid-Long)	417 222 595 (Hollow- Threaded) 1 x 206 261 299 set screw	↔	↔	417 222 595 (Hollow-Long)	↔
Engagement RPM ± 100	↔	3800	↔	↔	↔	↔
Maximum RPM ± 100	↔	7850	↔	↔	↔	↔

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	↔	Violet 414 978 300	↔	↔	↔	↔
Spring tension	Kg ± 0.7 lb ± 1.5	↔	↔	↔	↔	↔
Cam angle	° (degrees)	↔	↔	↔	↔	↔
		44° 417 126 445	↔	↔	↔	↔

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	↔	400	↔	↔	↔	↔	2	
Jet needle	↔	9EGY02-58	↔	↔	↔	↔	2	
Needle position	↔	3	↔	↔	↔	↔	—	
Slide cut-away	↔	2.0	↔	↔	↔	↔	2	
Pilot jet	↔	17.5	↔	↔	↔	↔	2	
Mixture screw	↔	na	↔	↔	↔	↔	—	
Valve seat	↔	1.5	↔	↔	↔	↔	2	
Needle jet	↔	P-0M	↔	↔	↔	↔	2	
Float level	mm	↔	↔	↔	↔	↔	—	
Idle	RPM ± 200	↔	↔	↔	↔	↔	—	
Idle throttle valve position	mm	1.7	2.0	↔	2.2	↔	2.4	—

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		430	↔	↔	↔	↔	PTO MAG
-30°C -20°F		420	↔	↔	↔	↔	PTO MAG
-20°C -4°F		400	↔	↔	↔	↔	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

SUMMIT 800 HO R ADRENALINE 151 (EUROPE)

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 415 015 400	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐
Ramp	417 222 548 (415)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 004 308 (Solid)	417 222 595 (Hollow- Threaded) 1 x 206 261 299 set screw	⇐	⇐	417 222 595 (Hollow- Threaded)	⇐
Engagement RPM ± 100	3800	⇐	⇐	⇐	⇐	⇐
Maximum RPM ± 100	7850	⇐	⇐	⇐	⇐	⇐

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	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	44° 417 126 445	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	400	⇐	⇐	⇐	⇐	⇐	2	
Jet needle	9EGY02- 58	⇐	⇐	⇐	⇐	⇐	2	
Needle position	3	⇐	⇐	⇐	⇐	⇐	—	
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	na	⇐	⇐	⇐	⇐	⇐	—	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	na	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1500	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	2.0	⇐	⇐	2.2	⇐	2.4	—

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	430	⇐	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	420	⇐	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	400	⇐	⇐	⇐	⇐	⇐	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

SUMMIT 800 HO R 159 2.25 TRACK

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	↕	Violet/Yellow 415 015 300	↕	↕	↕	↕
Ramp	↕	417 222 548 (415)	↕	↕	↕	↕
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid-Long)	417 222 595 (Hollow- Threaded) 1 x 206 261 299 set screw	↕	↕	417 222 595 (Hollow- Threaded)	↕
Engagement RPM ± 100	↕	3800	↕	↕	↕	↕
Maximum RPM ± 100	↕	7850	↕	↕	↕	↕

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	↕	Violet 414 978 300	↕	↕	↕	↕
Spring tension	Kg ± 0.7 lb ± 1.5	↕	↕	↕	↕	↕
Cam angle	° (degrees)	↕	↕	↕	↕	↕
		44°-40° 417 126 830	↕	↕	↕	↕

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein and see last page for main jet part numbers.		

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

NOTE: Shaded column gives factory settings.

Carburetion

Altitude → Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet	↕	400	↕	↕	↕	↕	2	
Jet needle	↕	9EGY02-58	↕	↕	↕	↕	2	
Needle position	↕	3	↕	↕	↕	↕	—	
Slide cut-away	↕	2.0	↕	↕	↕	↕	2	
Pilot jet	↕	17.5	↕	↕	↕	↕	2	
Mixture screw	↕	na	↕	↕	↕	↕	—	
Valve seat	↕	1.5	↕	↕	↕	↕	2	
Needle jet	↕	P-0M	↕	↕	↕	↕	2	
Float level	mm	↕	↕	↕	↕	↕	—	
Idle	RPM ± 200	↕	↕	↕	↕	↕	—	
Idle throttle valve position	mm	1.7	2.0	↕	2.2	↕	2.4	—

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		430	↕	↕	↕	↕	PTO MAG
-30°C -20°F		420	↕	↕	↕	↕	PTO MAG
-20°C -4°F		400	↕	↕	↕	↕	PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

SUMMIT HM / HIGHMARK X (RT)

Drive Pulley (TRA V)

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	↔	Pink/White 414 991 400	↔	↔	Violet/Yellow 415 015 300	↔
Ramp	↔	417 222 799 (433)	↔	↔	417 222 546 (414)	↔
Calibration Screw Position	1	2	3	4	3	4
Pin	↔	417 222 812 (Steel lever) 1 x 417 004 309 (Hollow)	↔	↔	417 222 671 (Alu. lever) 1 x 417 222 595 (Long-Threaded) 1 x 206 262 599 set screw	↔
Engagement RPM ± 100	↔	3500	↔	↔	4000	↔
Maximum RPM ± 100	↔	7900	↔	↔	↔	↔

NOTE: For continued use at sea level, use the following calibration:

- SPRING: Green/White (P/N 417 222 371)
- RAMP: (600) (P/N 417 222 444)
- CALIBRATION SCREW POSITION: 3

NOTE: If recalibrating Summit from sea level back to High Altitude, download calibration file, under same part number, (VH4M743\$.BIX) from BOSSWeb and transfer using B.U.D.S.

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	↔	Violet 414 978 300	↔	↔	↔	↔
Spring tension	↔	0.0	↔	↔	↔	↔
Cam angle (degrees)	↔	44°-30° 417 126 803	↔	↔	↔	↔

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 129 007 (File on BOSSWeb)	Calibration File (VH4M744\$.BIX) (FOR SEA LEVEL USE ONLY)	1
420 231 130	Decompressor (FOR SEA LEVEL USE ONLY)	2
504 091 000	Sprocket 23T (FOR SEA LEVEL USE ONLY)	1
861 790 000	RT KIT (For use beginning at 2400m- 8000ft) and above Contents of kit are listed below	1
417 222 546	Ramp (414)	3
417 222 671	Lever	3
417 003 900	Roller assembly	3
417 004 302	Stopper Washer	6
417 222 595	Pin (M6)	3
415 015 300	Spring (160-230)	1
206 262 599	Set screw (3,81g) (M6)	3
732 958 001	Cotter Pin	3

NOTE: Readjust idle to 4.8° after installing decompressor of sea level use.

NOTE: Special price exists on kit, call for pricing and availability.

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

NOTE: Shaded column gives factory settings.

SUMMIT HM (EUROPE) (RT)

Drive Pulley (TRA V)

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/White 417 222 371	⇐	⇐	Violet/Yellow 415 015 300	⇐	⇐
Ramp	417 222 444 (600)	⇐	⇐	417 222 546 (414)	⇐	⇐
Calibration Screw Position	3	4	5	2	3	4
Pin	417 222 812 (Steel lever) 1 x 417 004 309 (Hollow)	⇐	⇐	417 222 671 (Alu. lever) 1 x 417 222 595 (Long- Threaded) 1 x 206 262 599 set screw	⇐	⇐
Engagement RPM ± 100	3400	3500	⇐	4000	⇐	⇐
Maximum RPM ± 100	7900	7900	⇐	⇐	⇐	⇐

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	Violet 414 978 300	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	44°-30° 417 126 803	⇐	⇐	⇐	⇐

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

NOTE: For continued use at high altitude, (at and above 2400 m (8000 ft)), download (P/N 415 129 007), which contains the calibration file VH4M744\$.BIX, from BOSSWeb and transfer using B.U.D.S.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
420 231 130	Decompressor (FOR SEA LEVEL USE ONLY)	2
861 790 000	RT KIT (For use beginning at 2400m- 8000ft) and above Contents of kit are listed below	1
417 222 546	Ramp (414)	3
417 222 671	Lever	3
417 003 900	Roller assembly	3
417 004 302	Stopper Washer	6
417 222 595	Pin (M6)	3
415 015 300	Spring (160-230)	1
206 262 599	Set screw (3,81g) (M6)	3
732 958 001	Cotter Pin	3

NOTE: Adjust rear suspension stopper strap to 2 3/4 inches

NOTE: Special price exists on kit, call for pricing and availability.

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

NOTE: Shaded column gives factory settings.

MACH 2 ADRENALINE (RT)

Drive Pulley (TRA V)

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	Pink/White 414 991 400	⇐	⇐	Violet/Yellow 415 015 300	⇐
Ramp	417 222 815 (434)	417 222 799 (433)	⇐	⇐	417 222 546 (414)	⇐
Calibration Screw Position	6	2	3	4	3	4
Pin	417 222 812 (Steel lever) 1 x 417 004 309 (Hollow)	⇐	⇐	⇐	417 222 671 (Alu. lever) 1 x 417 222 595 (Long- Threaded) 1 x 206 262 599 set screw	⇐
Engagement RPM ± 100	3400	3500	⇐	⇐	4000	⇐
Maximum RPM ± 100	7900	7900	⇐	⇐	⇐	⇐

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	Violet 414 978 300	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	44°-30° (degrees) 417 126 803	⇐	⇐	⇐	⇐	⇐

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

NOTE: For continued use at high altitude, (at and above 2400 m (8000 ft)), download (P/N 415 129 007), which contains the calibration file VH4M744\$.BIX, from BOSSWeb and transfer using B.U.D.S.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

LEGEND V-1000 SPORT, SE 121 / SE 136

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 800	⇐	Red/Red 414 689 800	⇐	⇐	⇐
Ramp	417 222 569 (607)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	2	3	4	5
Pin	417 222 594 (Solid-Long)	⇐	417 004 309 (Hollow)	⇐	⇐	⇐
Engagement RPM ± 100	2500	⇐	⇐	⇐	⇐	⇐
Maximum RPM ± 100	7250	⇐	⇐	⇐	⇐	⇐

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	Pink 417 126 735	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	⇐	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	⇐	⇐	⇐	⇐	⇐

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

EXPEDITION TUV V-1000

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/Orange 415 015 200	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 569 (607)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	4	5	3	4	5	6
Pin	417 222 594 (Solid-Long)	⇐	417 004 309 (Hollow)	⇐	⇐	⇐
Engagement RPM ± 100	2500	⇐	⇐	⇐	⇐	⇐
Maximum RPM ± 100	7250	⇐	⇐	⇐	⇐	⇐

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	Blue 417 126 689	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 kg 15.4 lb	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	40°-30° M140057	⇐	⇐	⇐	⇐

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

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

NOTE: Shaded column gives factory settings.

ELITE

Drive Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 800	⇌	Red/Red 414 689 800	⇌	⇌	⇌
Ramp	417 222 696 (609)	⇌	417 222 569 (607)	⇌	⇌	⇌
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 308 (Solid)	⇌	417 222 595 (Hollow- Threaded) 1 x 206 261 699 set screw	⇌	⇌	⇌
Engagement RPM ± 100	2200	⇌	⇌	⇌	⇌	⇌
Maximum RPM ± 100	7250	⇌	⇌	⇌	⇌	⇌

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	Beige 414 558 900	⇌	⇌	⇌	⇌	⇌
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 kg 15.4 lb	⇌	⇌	⇌	⇌
Cam angle	° (degrees)	47°-30° 417 126 843	⇌	44°-30° 417 126 803	⇌	⇌

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MAIN JETS CHART

TYPE	BRP P/N	TYPE	BRP P/N	TYPE	BRP P/N
90	404 132 900	180	404 112 200	310	404 107 800
100	404 132 000	185	404 119 500	320	404 101 300
105	404 132 100	190	404 119 000	330	404 101 400
110	404 124 100	195	404 119 400	340	404 104 900
115	404 124 000	200	404 112 300	350	404 106 000
120	404 123 900	205	404 159 200	360	404 106 100
125	404 124 800	210	404 119 100	370	404 106 200
130	404 124 900	215	404 161 979	380	404 106 300
135	404 130 400	220	404 111 200	390	404 106 400
140	404 126 600	230	404 118 900	400	404 100 900
145	404 130 500	240	404 100 200	410	404 101 000
150	404 120 900	250	404 100 300	420	404 107 900
155	404 128 700	260	404 100 600	430	404 108 000
160	404 118 200	270	404 100 400	440	404 108 100
165	404 119 300	280	404 100 500	460	404 106 600
170	404 123 800	290	404 101 100	470	404 106 700
175	404 119 200	300	404 101 200		

Please route to :

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Service

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Parts



Date: **October 18, 2004**

Subject: **DESS Key Programming Procedure**

No. **2005-7**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1997 to 2005	All DESS equipped	All	All

There are several procedures available to program DESS (Digitally Encoded Security System) keys into Ski-Doo snowmobiles. They can be either programmed with the use of the VCK (Vehicle Communication Kit) and B.U.D.S. (Bombardier Utility Diagnostic Software) or with the use of the MPEM Programmer (Multi Purpose Electronics Module programmer). This bulletin outlines the

procedures and on what vehicles those procedures can be used. To use this bulletin refer to the following chart and determine the year and type of snowmobile and then select an appropriate key programming procedure for that vehicle, using the option that you prefer as described in the following pages.

YEAR MODEL PACKAGE	B.U.D.S. PROCEDURE									MPEM PROGRAMMER PROCEDURE					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
PROCEDURE															
S chassis DESS equipped vehicles	X									X					
Carburetor equipped vehicles with 6 pin B.U.D.S. connectors and with MPEM printed on the electronic box (not for fuel injection; not for vehicles with ECM printed on the electronic box)	X	X	X							X	X				
CK3 chassis 1997 to 2001, 360 watt DC electrical system	X			X						X		X			
ZX chassis AC CDI equipped liquid cooled vehicles	X				X					X			X		
ZX chassis 2002, DC CDI equipped liquid cooled	X					X				X				X	
CK3 chassis AD CDI DESS equipped vehicles	X						X			X					X
4-TEC and SDI vehicles (including 995)								X							
Carburetor equipped vehicles with "ECM" printed on their electronic box (including Power T.E.K.)									X						

PROGRAMMING DESS KEYS WITH B.U.D.S.

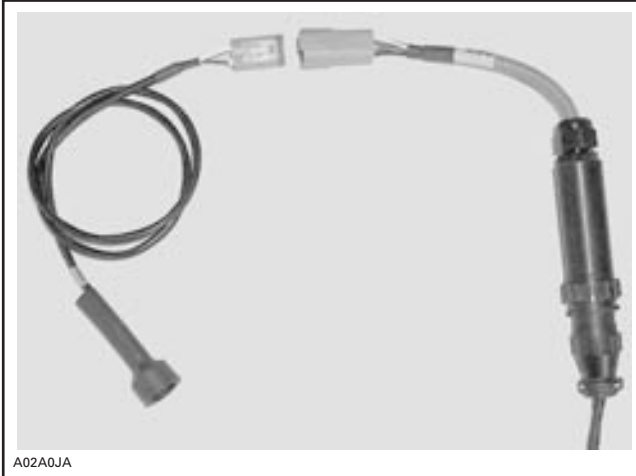
This section is to be used as a supplement to your shop manuals and DVD video series. Understanding the B.U.D.S. system and its options is important for the proper entry of information such as customer name and delivery date. The B.U.D.S. system is also used for the programming

of DESS (Digital Encoded Security System) lanyards to the vehicle. It can also be used for setting the ignition timing and TPS (Throttle Position Sensors) on some models and reading fuel injection diagnostic information on equipped models. Please refer to the aforementioned materials for the proper use of the B.U.D.S. system.

A) Procedure B.U.D.S.

Use this procedure on DESS equipped vehicles WITHOUT a 6 pin connector:

- Connect one end of the DESS adapter onto the 6-pin adapter.



- Connect the other end of the DESS adapter to the DESS post of the vehicle.



- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is DESS.
- Set parking brake.
- Start Vehicle and bring engine to approximately 2000 RPM.
- Read data from MPEM.
- Return engine to idle.
- Add or delete keys.
- Bring engine to approximately 2000 RPM.
- Write data back to MPEM.
- Back to normal idle, shut off vehicle.

- Disconnect cable.

B) Procedure B.U.D.S.

Use this procedure on Ski-Doo vehicles with 6 pin B.U.D.S. connector (non fuel injected):

- Remove the protective cap from the 6 pin connector on the vehicle.



- Connect the 6-pin adapter to the power supply cable (P/N 529 035 869) and then into the diagnostic connector of the vehicle.





- Connect the power supply harness to a 12 V battery, using supply harness (P/N 529 035 997); or to a 9 V battery, using supply harness (P/N 529 035 675).
- With a battery on the power supply cable, the MPEM will wake up automatically.
- Do not insert the DESS key on the DESS post.

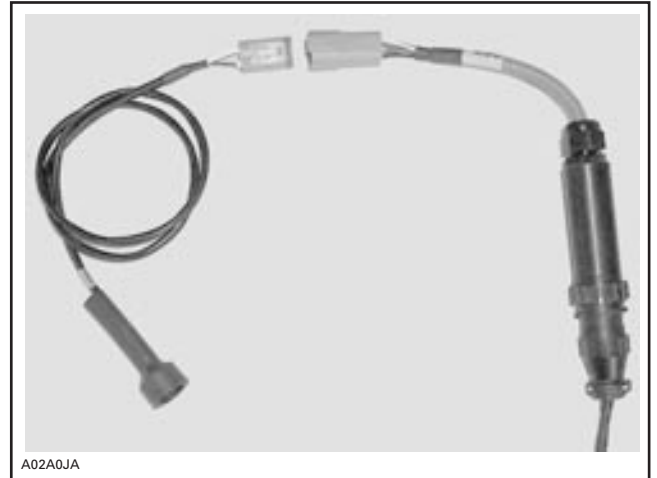
NOTE: If a DESS key is on the DESS post, B.U.D.S. will not be able to read the MPEM.

- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is DESS.
- Using B.U.D.S., read the data from MPEM.
- Add or delete keys.
- Write data back to MPEM.
- Disconnect power source from adapter.
- Disconnect adapter and cable.

C) Procedure B.U.D.S.

Use this procedure on Ski-Doo vehicles WITH 6 pin B.U.D.S. connector (non fuel injected):

- Connect one end of the DESS adapter onto the 6-pin adapter.



- Connect the other end of the DESS adapter to the DESS post of the vehicle.
- Remove the protective cap from the 6 pin connector on the vehicle.



- Connect the 6-pin power supply cable adapter (P/N 529 035 869) into the diagnostic connector of the vehicle.



A02A0MA



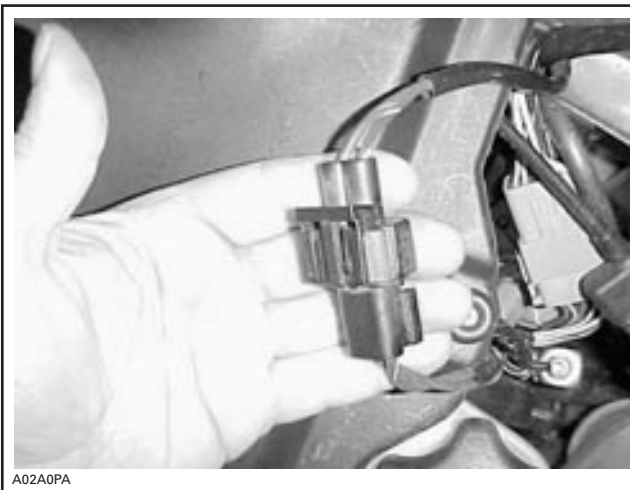
A02A0NA

- Connect the power supply harness to a 12 V battery, using supply harness (P/N 529 035 997); or to a 9 V battery, using supply harness (P/N 529 035 675).
- With a battery on the power supply cable, the MPEM will wake up automatically.
- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is DESS.
- Using B.U.D.S. read the data from MPEM.
- Add or delete keys.
- Write data back to MPEM.
- Disconnect power source from adapter.
- Disconnect adapter and cable.

D) Procedure B.U.D.S.

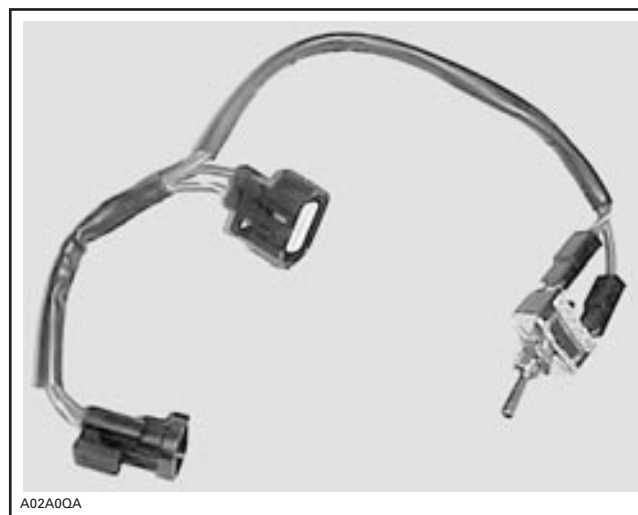
Use this procedure on Ski-Doo CK3 chassis 1997 to 2001 360 watt DC electrical systems:

- Disconnect the two wire RED/BLUE and RED/WHITE connector.

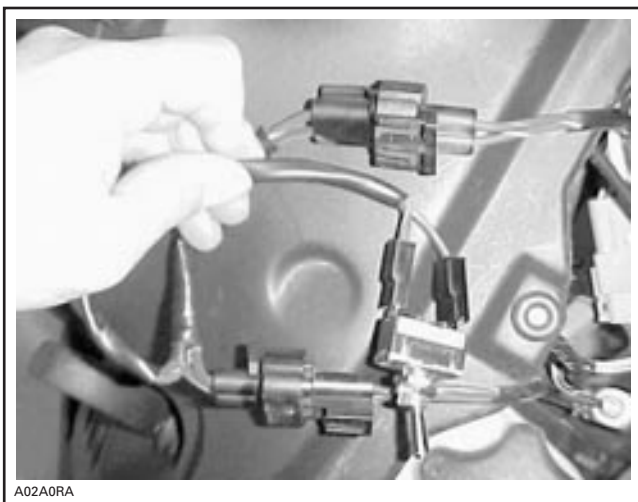


A02A0PA

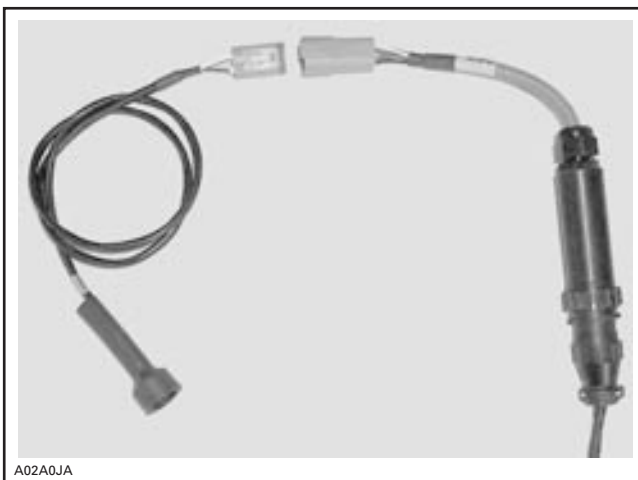
- Install the power bypass switch (P/N 529 033 300) to both ends of the disconnected connectors.



A02A0QA



- Connect one end of the DESS adapter onto the 6-pin adapter.



- Connect the other end of the DESS adapter to the DESS post of the vehicle.



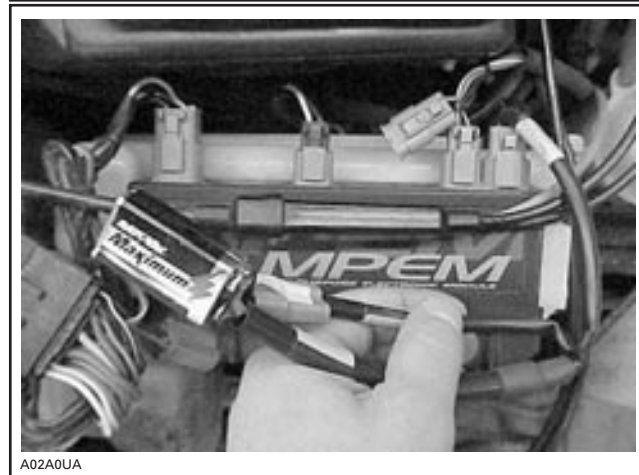
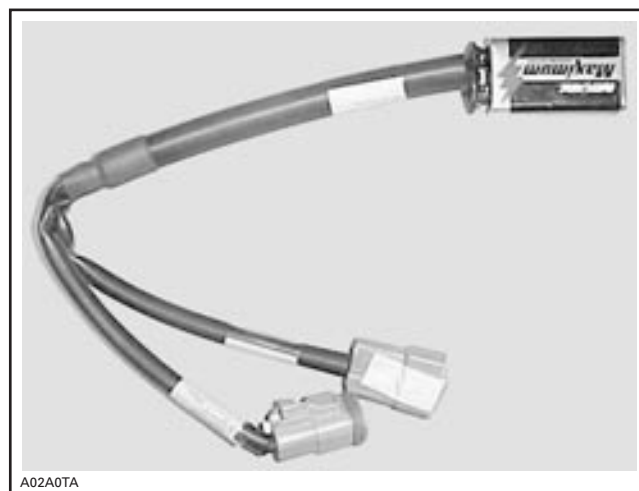
- Turn on power bypass switch.
- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is DESS.

- Using B.U.D.S. read the data from MPEM.
- Add or delete keys.
- Write data back to MPEM.
- Turn off power bypass switch.
- Disconnect power bypass switch.
- Reconnect disconnected 2 wire connector.
- Remove DESS adapter from the DESS post of the vehicle.

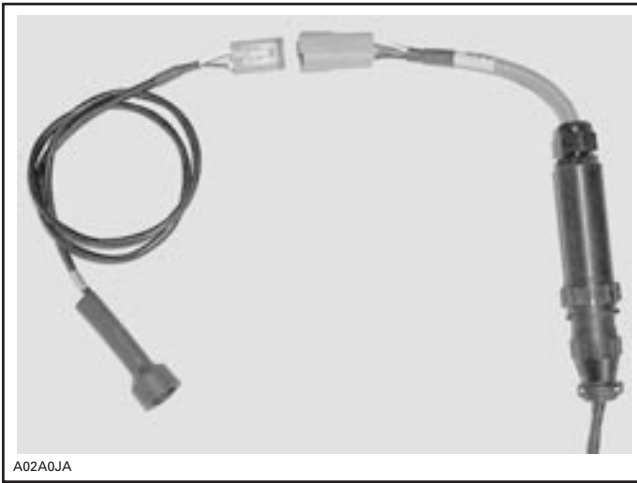
E) Procedure B.U.D.S.

Use this procedure on Ski-Doo ZX chassis AC CDI equipped liquid cooled vehicles:

- Disconnect 3 pin MPEM connector.
- Connect 9 volt adapter (P/N 529 035 675) to MPEM.



- Connect one end of the DESS adapter onto the 6-pin adapter.



- Connect the other end of the DESS adapter to the DESS post of the vehicle.



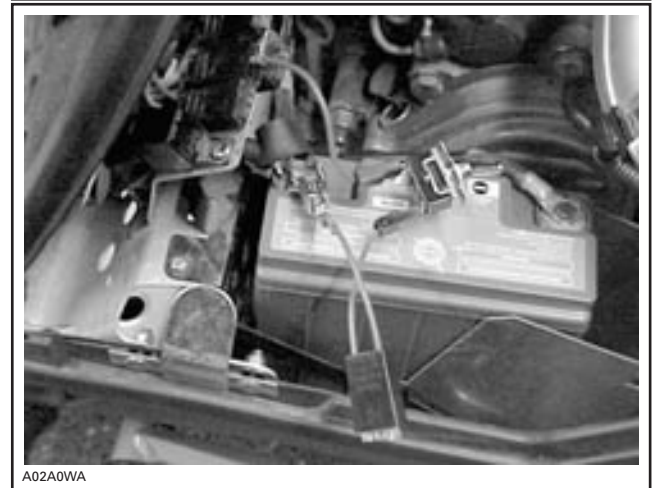
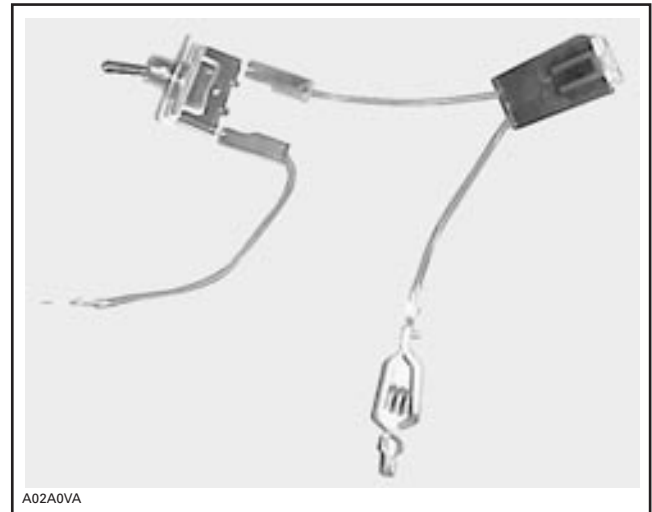
- Using B.U.D.S. read the data from MPEM.
- Add or delete keys.
- Write data back to MPEM.
- Disconnect 9 volt adapter from MPEM.
- Reconnect disconnected 3 wire MPEM connector.
- Remove DESS adapter from the DESS post of the vehicle.

F) Procedure B.U.D.S.

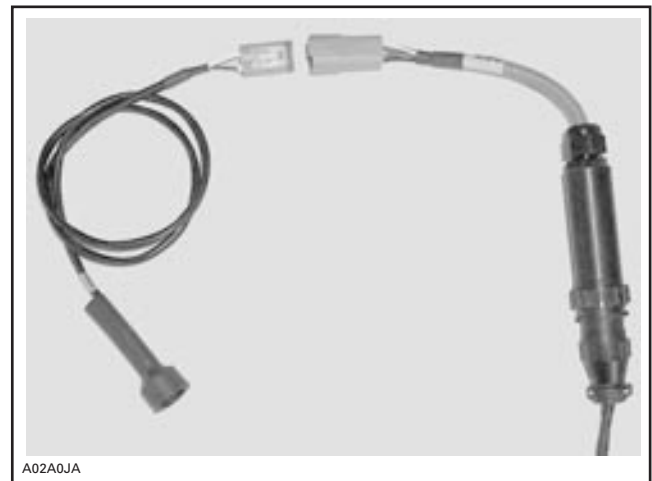
Use this procedure on Ski-Doo ZX chassis 2002 DC CDI equipped liquid cooled vehicles:

- Remove fuse from fuse connector.
- Install blade end of power bypass switch (P/N 861 780 600) into fuse holder terminal. Connect to the RED/BROWN wire.

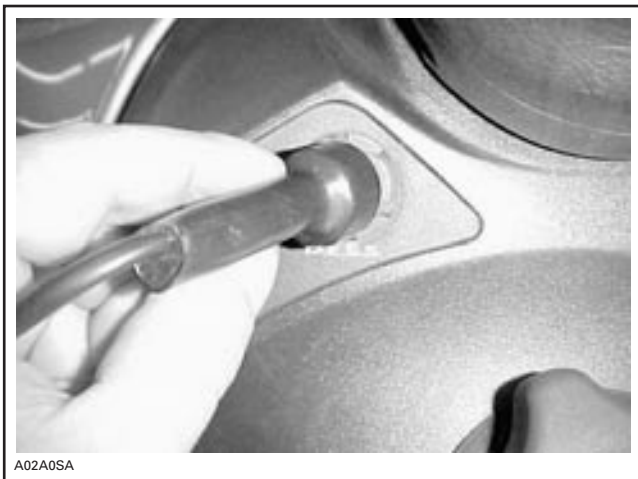
- Connect power bypass switch clip to positive battery terminal.



- Connect one end of the DESS adapter onto the 6-pin adapter.



- Connect the other end of the DESS adapter to the DESS post of the vehicle.

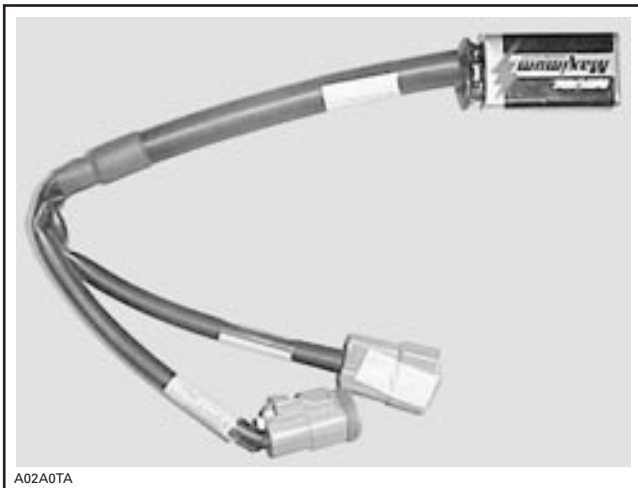


- Turn on power bypass switch.
- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is DESS.
- Using B.U.D.S. read the data from MPEM.
- Add or delete keys.
- Write data back to MPEM.
- Turn off power bypass switch.
- Disconnect power bypass switch.
- Reinstall fuse into fuse holder connector.
- Remove DESS adapter from the DESS post of the vehicle.

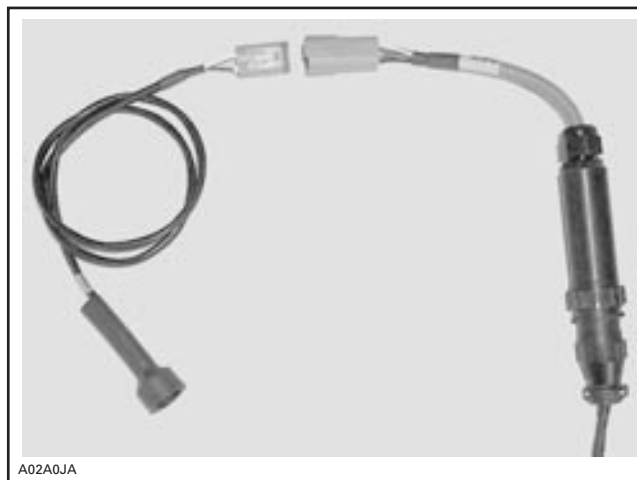
G) Procedure B.U.D.S.

Use this procedure on Ski-Doo CK3 chassis AC CDI DESS equipped vehicles:

- Connect 9 volt adapter (P/N 529 035 675) to MPEM connector lead.



- Connect one end of the DESS adapter onto the 6-pin adapter.



- Connect the other end of the DESS adapter to the DESS post of the vehicle.



- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is DESS.
- Using B.U.D.S. read the data from MPEM.

- Add or delete keys.
- Write data back to MPEM.
- Disconnect 9 volt adapter from MPEM.
- Remove DESS adapter from the DESS post of the vehicle.

H) Procedure B.U.D.S.

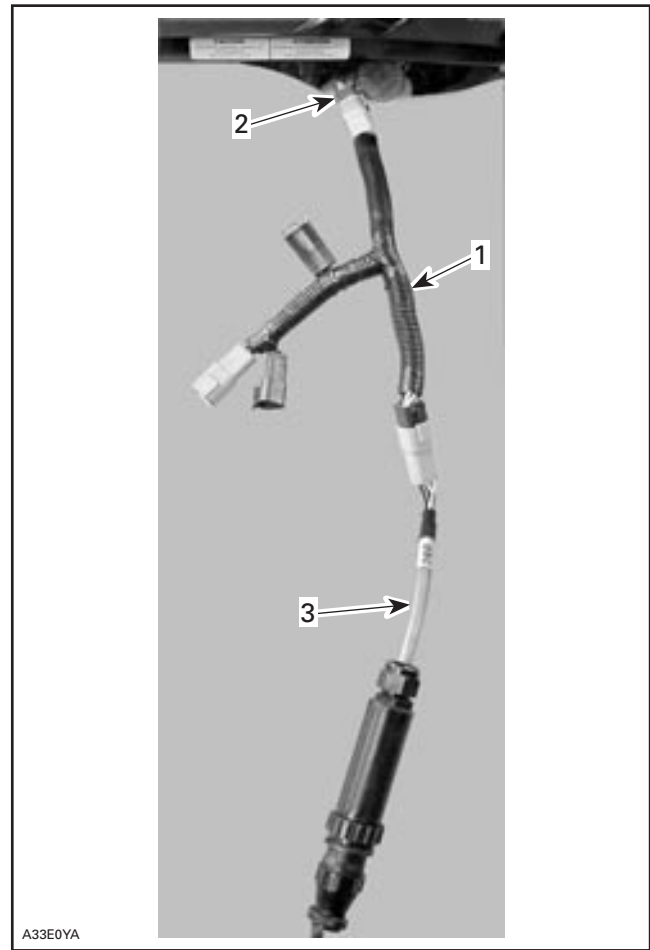
Use this procedure for fuel injected vehicles:

- Remove the 6 pin connector from the protective cap located on the right side of the vehicle.



- Connect power supply harness [1], (P/N 529 035 869), to 6 pin connector [2].
- Connect the 6 pin diagnostic cable [3] to power supply harness [1] (P/N 529 035 869).

NOTE: Injection vehicles already have a 12 V battery; they do not need any external 9 V or 12 V power to allow programming and troubleshooting.



NOTE: The use of the power supply harness [1] will keep the vehicle's ECM ON. Not using it will make the ECM shut off after a few seconds.



- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is KW 2000.
- Turn the engine shutdown switch to the engine off position.
- Insert the grey DESS cap or any DESS cap onto the vehicle DESS post.
- Press the start/stop button or turn briefly the ignition switch to the START position to wake up the ECM.
- Using B.U.D.S. read the data from the ECM.
- Add or delete keys. Keys to be programmed must be placed on the MPI DESS post.
- Write data back to the ECM.
- Disconnect adapter and cable.
- Remove grey DESS cap.

NOTE: If the B.U.D.S. system loses communication while connected, press the start/stop button or turn briefly the ignition switch to the START position to reactivate communication.

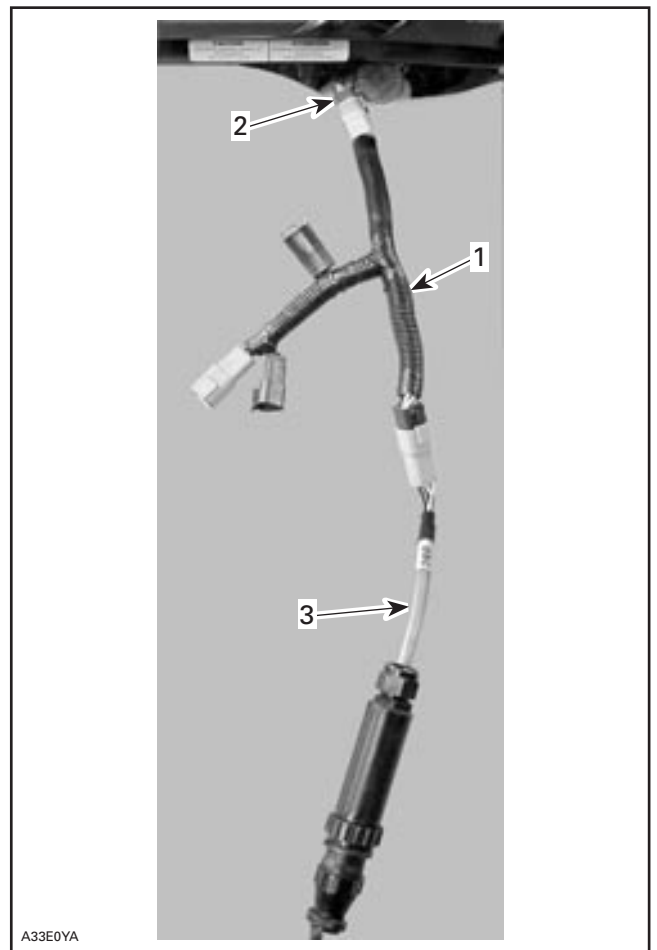
I) Procedure B.U.D.S.

Use this procedure for carburetor equipped vehicles with "ECM" printed on their electronic box (including Power T.E.K.):

- Remove the 6 pin connector from the protective cap on the right side of the vehicle.



- Connect power supply harness [1], (P/N 529 035 869), to 6 pin connector [2].
- Connect the 6 pin diagnostic cable [3] to power supply harness [1] (P/N 529 035 869).



CAUTION: If power supply harness [1] is not used, it will lead to module failure. Failed module related to wrong connection setup is not covered by warranty.



- Select the vehicle's protocol in Choose Protocol from the MPI menu. The protocol is KW 2000.
- Connect the power supply harness to a 12 V battery, using supply harness (P/N 529 035 997); or to a 9 V battery, using supply harness (P/N 529 035 675).

NOTE: The 9 V battery allows you to program keys, timing, TPS, etc. To activate solenoids, spark plugs, etc., from the B.U.D.S. Activation menu; the vehicle needs to be connected to a 12 V battery.

- With a battery on the power supply cable, the ECM will wake up automatically. No DESS key is required on the vehicle's DESS post to begin communication.
- Install the DESS key to be programmed on the vehicle's DESS post (not on MPI box DESS post).
- Read the data from ECM.
- Add or delete keys.

NOTE: To program a second DESS key, insert it on the vehicle's DESS post.

- Write data back to ECM.
- Disconnect power source from adapter, adapter and cable.

PROGRAMMING DESS KEYS WITH MPEM PROGRAMMER

This section is to be used as a supplement to your shop manuals, DVD video series and the MPEM Programmer Guide (P/N 484 300 139). Understanding the MPEM Programmer and its options is important for the proper entry of such information as customer name and delivery date. The programmer is also used for the programming of DESS (Digital Encoded Security System) lanyards to the vehicle. Please refer to the aforementioned items for the proper use of the programmer.

J) Procedure MPEM Programmer

Use this procedure for DESS equipped vehicles WITHOUT a 6 pin connector:

- Connect the MPEM programmer DESS adapter to the DESS post of the vehicle.



- Set parking brake.
- Start vehicle and bring engine to approximately 2000 RPM.
- Read data from MPEM.
- Shut off vehicle or allow it to stay running.
- Add or delete keys.
- Start vehicle and bring engine to approximately 2000 RPM.
- Enter save and quit to write back to the MPEM.
- Shut off vehicle.

K) Procedure MPEM Programmer

Use this procedure on Ski-Doo vehicles WITH 6 pin B.U.D.S. connector (non fuel injected):

- Remove the protective cap from the 6 pin connector on the vehicle.



A02A0LA

- Connect the 6 pin adapter to the power supply cable (P/N 529 035 869) and then into the diagnostic connector of the vehicle.



A02A0MA



A02A0NA

- Connect a 12 V battery adapter (P/N 529 035 997) or a 9 v battery adapter (P/N 529 035 675) to the power supply harness (P/N 529 035 869).
- With a battery on the power supply cable, the MPEM will wake up automatically.

⚠ WARNING

Do not connect a 12 volt battery to the adapter harness with the 9 volt battery adapter connected.

- Connect the MPEM programmer DESS adapter to the DESS post of the vehicle.



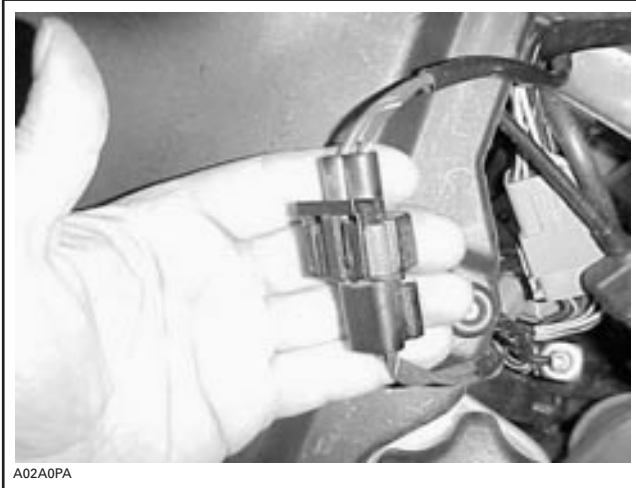
A02A0KA

- Read the data from MPEM.
- Add or delete keys.
- Enter save and quit to write back to the MPEM.
- Disconnect power source from adapter.
- Disconnect adapter and cable.

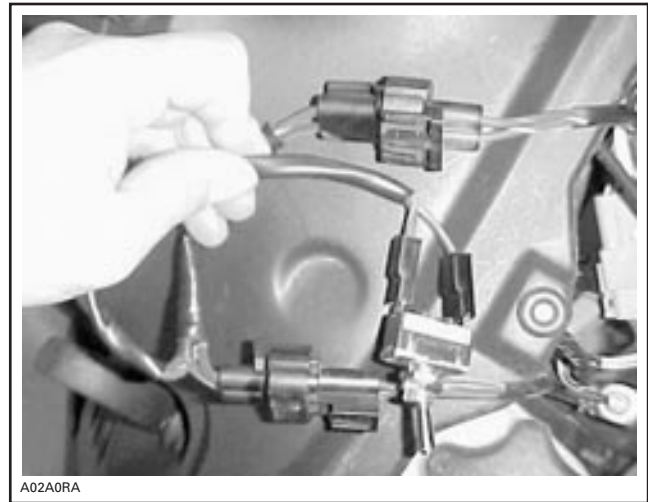
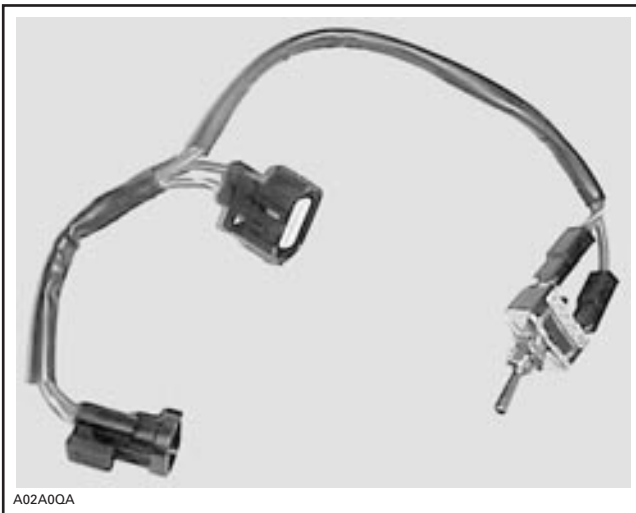
L) Procedure MPEM Programmer

Use this procedure on Ski-Doo CK3 chassis 1997 to 2001 360 watt DC electrical systems:

- Disconnect the two wire RED/BLUE and RED/WHITE connector.



- Install the power bypass switch (P/N 529 033 300) to both ends of the disconnected connectors.



- Connect the MPEM programmer DESS adapter to the DESS post of the vehicle.



- Turn on power bypass switch.
- Read the data from MPEM.
- Add or delete keys.
- Enter save and quit to write back to the MPEM.
- Turn off power bypass switch.
- Disconnect power bypass switch.
- Reconnect disconnected 2 wire connector.
- Remove DESS adapter from the DESS post of the vehicle.

M) Procedure MPEM Programmer

Use this procedure on Ski-Doo ZX chassis AC CDI equipped liquid cooled vehicles:

- Disconnect 3 pin MPEM connector.

- Connect 9 volt adapter (P/N 529 035 675) to MPEM.



A02A0TA

- Disconnect 9 volt adapter from MPEM.
- Reconnect disconnected 3 wire MPEM connector.
- Remove DESS adapter from the DESS post of the vehicle.

N) Procedure MPEM Programmer

Use this procedure on Ski-Doo ZX chassis 2002 DC CDI equipped liquid cooled vehicles:

- Remove fuse from fuse connector.
- Install blade end of power bypass switch (P/N 861 780 600) into fuse holder terminal. Connect to the RED/BROWN wire.
- Connect power bypass switch clip to positive battery terminal.



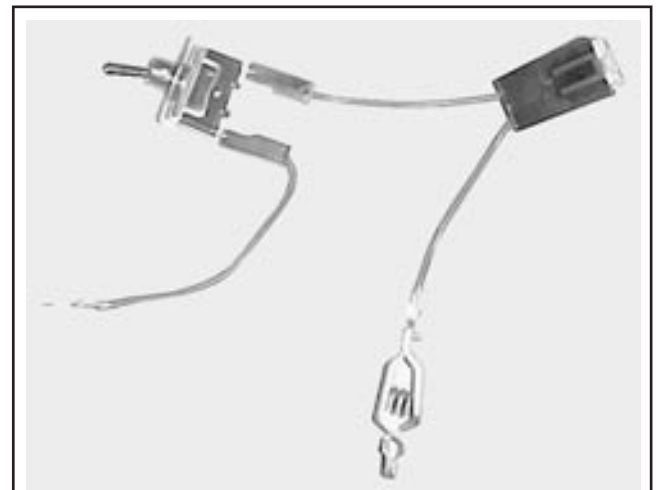
A02A0UA

- Connect the MPEM programmer DESS adapter to the DESS post of the vehicle.



A02A0SA

- Read the data from MPEM.
- Add or delete keys.
- Enter save and quit to write back to the MPEM.



A02A0VA



A02A0WA

- Connect the MPEM programmer DESS adapter to the DESS post of the vehicle.

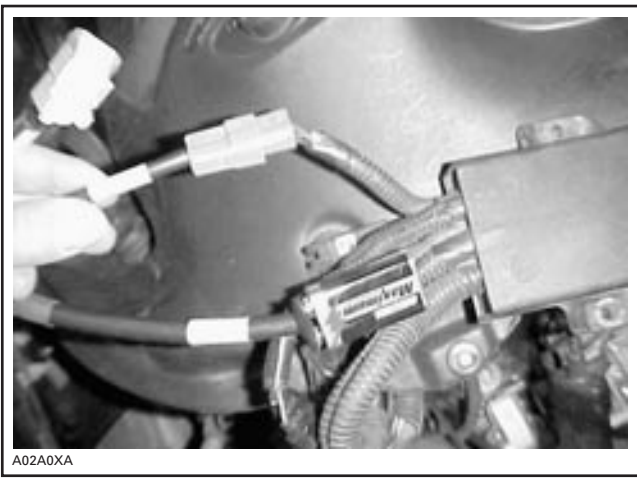
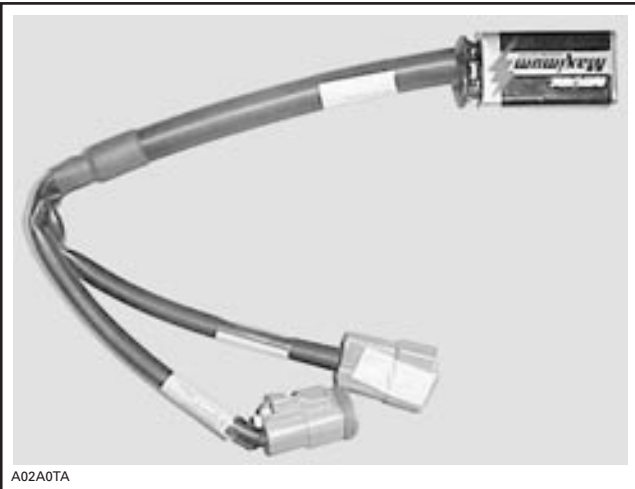


- Turn on power bypass switch.
- Read the data from MPEM.
- Add or delete keys.
- Enter save and quit to write back to the MPEM.
- Turn off power bypass switch.
- Disconnect power bypass switch.
- Reinstall fuse into fuse holder connector.
- Remove DESS adapter from the DESS post of the vehicle.

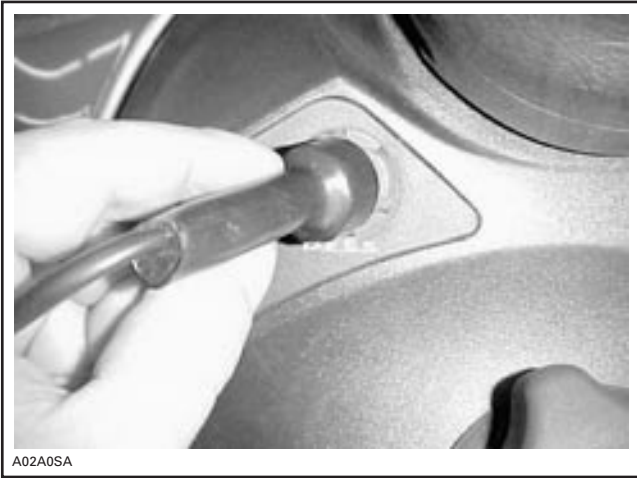
O) Procedure MPEM Programmer

Use this procedure on Ski-Doo CK3 chassis AC CDI DESS equipped vehicles:

- Connect 9 volt adapter to MPEM connector lead.



- Connect the MPEM programmer DESS adapter to the DESS post of the vehicle.



- Read the data from MPEM.
- Add or delete keys.
- Enter save and quit to write back to the MPEM.
- Disconnect 9 volt adapter from MPEM.
- Remove DESS adapter from the DESS post of the vehicle.

Please route to :

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **January 28, 2005**

Subject: **Oil Pump Cable Adjustment Procedure**

No. **2005-8**

REVISION 1 ◀

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2003	Liquid Cooled	Liquid Cooled	All
2004			
2005			

There has been a running change in the oil pump adjustment procedure for the 2005 liquid cooled engines to improve consistency by taking into account the throttle cable free play.

Due to this fact, the adjustment procedure in this bulletin may be different from what can be found in *2005 Pre delivery Bulletins* and from the measurement found on some 2005 vehicles.

This bulletin contains the most recent oil pump cable adjustment procedure and supersedes all previous information.

CAUTION: The use of this procedure is mandatory on all 2005 liquid cooled vehicles. Proper oil injection pump functioning is very important. Any delay in the opening of the pump can result in serious engine damage.

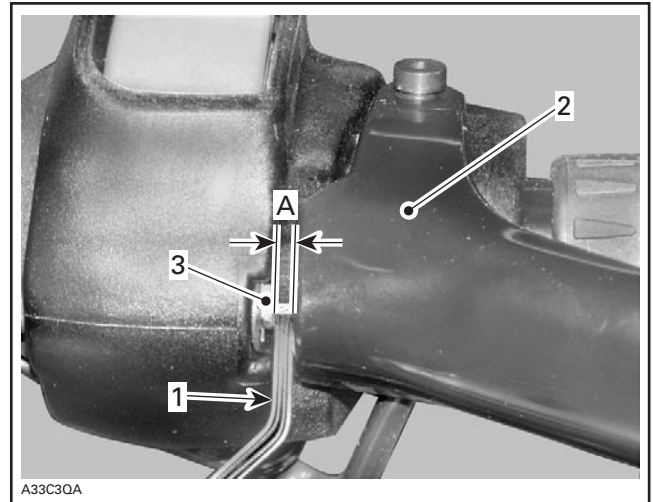
NOTE: This procedure should also be used on 2003 and 2004 model year liquid cooled engine units.

PROCEDURE

Throttle Cable Adjustment

Before proceeding with the oil pump cable adjustment, verify throttle cable adjustment and adjust if needed. Refer to proper sections in the appropriate *Shop Manual*, noting that the throttle cable free play should be adjusted just prior to the oil pump cable.

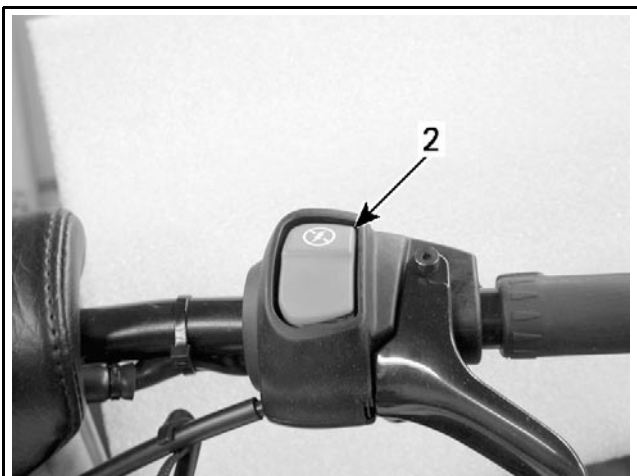
- Depress the throttle lever lightly until the cable is under tension but carburetors or throttle body are not yet opened.



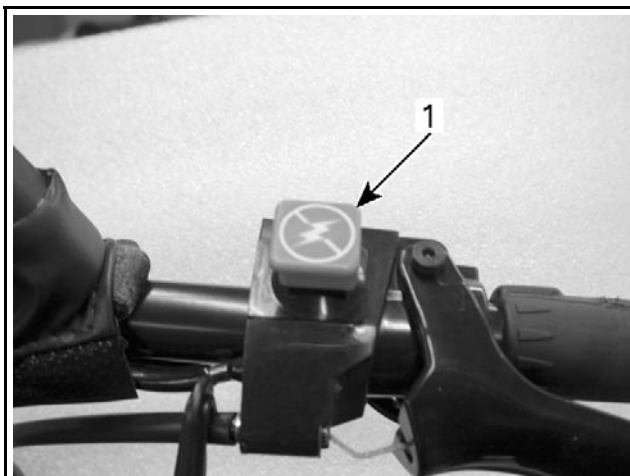
NOTE: Throttle cable visible distance "A" is measured between the throttle lever [2] and the cable housing end [3], using a feeler gauge [1].

- Measure the visible distance "A" using the appropriate feeler gauge and note measurement.
- Next, add to measurement "A" the appropriate specification "B", using the charts below.

NOTE: Following photos show push/pull type [1] and toggle type [2] stop switches.



mbs05-008-02_A



mbs05-008-01_A

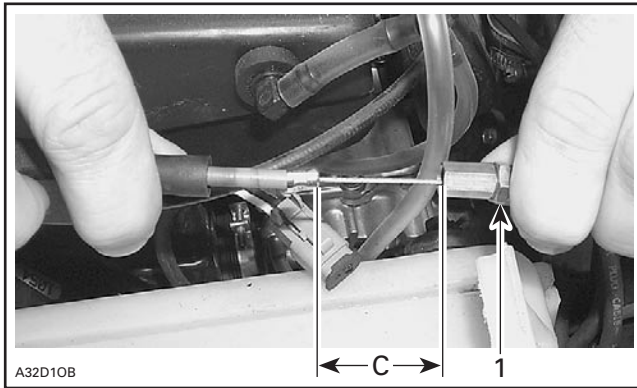
OIL PUMP ADJUSTMENT ▶ with toggle type engine stop switch ◀		
Engine Type	Model Year	Specification "B"
All liquid cooled except SDI	2003	16.5 mm (0.650 in)
800 SDI	2003	18 mm (0.709 in)
All liquid cooled except SDI	2004	16.5 mm (0.650 in)
600 HO SDI	2004	18 mm (0.709 in)
800 SDI	2004	18 mm (0.709 in)
All liquid cooled except SDI	2005	16.5 mm (0.650 in)
600 HO SDI	2005	18 mm (0.709 in)
995 SDI Mach Z and Summit at <i>sea level</i>	2005	16.5 mm (0.650 in)
995 SDI Mach Z and Summit at <i>high altitude</i> at and above 2400 m (8000 ft)	2005	18.5 mm (0.709 in)

OIL PUMP ADJUSTMENT ▶ with push/pull type engine stop switch ◀		
Engine Type	Model Year	Specification "B"
All liquid cooled except SDI	2003	15.9 mm (0.626 in)
800 SDI	2003	17.4 mm (0.685 in)
All liquid cooled except SDI	2004	15.9 mm (0.626 in)
600 HO SDI	2004	17.4 mm (0.685 in)
800 SDI	2004	17.4 mm (0.685 in)
All liquid cooled except SDI	2005	15.9 mm (0.626 in)
600 HO SDI	2005	17.4 mm (0.685 in)
995 SDI Mach Z and Summit at <i>sea level</i>	2005	15.9 mm (0.626 in)
995 SDI Mach Z and Summit at <i>high altitude</i> at and above 2400 m (8000 ft)	2005	17.9 mm (0.705 in)

Oil Pump Adjustment Procedure

The correct specification for measurement "C" is the sum of "A" plus the specification "B" found in the charts.

NOTE: Make sure the filler gauge is removed from the throttle lever housing.



Stretch oil pump adjustment cable with a 32 N (7.2 lbf) force and measure the length of its visible distance "C".

If the visible distance is less or more than "A" + "B", adjust cable distance. To do so, loosen lock nut [1], turn adjusting screw in or out and retighten lock nut.

EXAMPLE: — The 2005 600 HO SDI has a throttle lever measurement "A" of 1.5 mm (0.059 in); by adding the appropriate specification "B" found in the chart (18 mm (0.709 in), you would determine that the correct measurement "C" at the cable would be 19.5 mm (0.768 in) as per equation $A + B = C$.

Please notify all involved personnel.

Please route to :

Init.

Service

Sales

Parts



Date: **November 24, 2004**

Subject: **A) Studs Application
B) Stud Installation
C) Warranty Policy**

No. **2005-9**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All applicable	All applicable	All

A) STUDS APPLICATION

⚠ WARNING

- Never stud a track that has not been approved for studs. Approved tracks can be identified by a stud symbol molded into the track surface.
- Studs should only be installed in the locations indicated by molded bulges in the track surface.
- Never stud a track with a profile of 35 mm (1.375 in) or more.
- The maximum allowable stud penetration range is 6.4 to 9.5 mm (1/4 to 3/8").
- The number of studs installed must match the number of molded bulges in the track.
- Strictly adhere to the specified tightening torque.

INSTALLING AN INCORRECT NUMBER OF STUDS OR AN IMPROPER INSTALLATION CAN INCREASE THE RISK OF THE TRACK TEARING OR SEVERING, POSSIBLY RESULTING IN SERIOUS INJURY OR DEATH.

Approved Studs According to Track Lug Height

Lug Height	Stud Size	Qty of Studs for a 121" Track	Qty of Studs for a 136" Track
0.880"	1.000"	96	108
1.000"	1.075"	96	108
1.250"	1.325"	96	108

Track and Studs reference Table

Chassis Type	Original Drive Sprocket	Original Track Dimension	Stud Size to Match Original Track	Max. Track Dimension with Studs	
				Track Max. Dimension	Stud Max. Dimension
REV FAN 380	10 teeth internal	15 x 121 x 0.725	Not Studable	N/A	Not Studable
REV FAN 550	10 teeth internal	15 x 121 x 0.880	1.00	15 x 121 x 1.250	1.325
REV FAN 550 Summit®	9 teeth internal	15 x 136 x 1.500	Not Studable	N/A	Not Studable
REV LC	10 teeth internal	15 x 121 x 1.000	1.075	15 x 121 x 1.250	1.325
REV LC Renegade™	10 teeth internal	16 x 136 x 1.250	1.325	15 x 136 x 1.250	1.325
REV LC X	10 teeth internal/external	15 x 121 x 1.000	1.075	15 x 121 x 1.250	1.325
REV LC Summit	10 teeth internal/external	16 x 144 x 2.000 16 x 151 x 2.000	Not Studable	N/A	Not Studable
REV LC Summit	9 teeth internal/external	16 x 159 x 2.000	Not Studable	N/A	Not Studable
REV LC GTX†	10 teeth internal	15 x 136 x 0.880	1.00	15 x 136 x 1.250	1.325
RT Adrenaline	10 teeth internal	15 x 121 x 1.000	1.075	15 x 121 x 1.250	1.325
RT Summit	10 teeth internal/external	16 x 162 x 2.310	Not Studable	N/A	Not Studable
ZX 4-TEC®	9 teeth internal	15 x 121 x 0.880	1.00	15 x 121 x 1.250	1.325
ZX 4-TEC GT	9 teeth internal	15 x 136 x 0.880	1.00	15 x 136 x 1.250	1.325

† GTX is a registered trademark of Castrol Ltd, used under licence.

Studable Track Specifications

P/N	DIMENSION	WEIGHT (Before studding)	CLEAT CONFIGURATION	STUDS HEIGHT
504 152 455	15 x 136 x 0.880	18.5 kg (41.0 lb)	Full	1.000
504 152 456	16 x 136 x 1.250	20.0 kg (44.4 lb)	Every 3rd pitch	1.325
504 152 483	15 x 121 x 1.250	17.8 kg (39.6 lb)	Full	1.325
504 152 484	15 x 121 x 1.000	15.5 kg (34.4 lb)	Every 3rd pitch	1.075
504 152 485	15 x 121 x 0.880	15.3 kg (34.0 lb)	Every 3rd pitch	1.000
504 152 486	16 x 136 x 1.250	21.5 kg (47.8 lb)	Full	1.325
504 152 488	15 x 136 x 1.250	21.0 kg (46.7 lb)	Full	1.325
504 152 489	15 x 136 x 0.880	16.8 kg (37.3 lb)	Every 3rd pitch	1.000

Maximum Track Height Allowable (Without studs)

CHASSIS TYPE	DIMENSION	CHASSIS TYPE	DIMENSION	CHASSIS TYPE	DIMENSION
REV LC	15 x 121 x 1.750	REV LC Summit	16 x 144 x 2.000 16 x 151 x 2.000	ZX 4-TEC	15 x 121 x 1.250
REV LC Adrenaline	15 x 121 x 1.750	REV LC Summit	16 x 159 x 2.250	ZX 4-TEC GT	15 x 136 x 1.250
REV LC X	15 x 136 x 1.750	REV LC GTX	15 x 136 x 1.750		
REV LC Renegade	16 x 136 x 1.750	RT Adrenaline	15 x 121 x 1.750		
REV LC X	15 x 121 x 1.750	RT Summit	16 x 162 x 2.500		

Stud and Support Plates

P/N	DESCRIPTION	PACK OF
415 128 884	Drill Bit	1
415 128 885	5/16" Aluminum Support Plate	24
415 128 886	5/16" Aluminum Support Plate	96
415 128 887	5/16" Aluminum Support Plate	144
415 128 917	5/16" Aluminum Support Plate	1000
415 128 888	5/16"-1" Woody's Gold Diggers	24
415 128 889	5/16"-1" Woody's Gold Diggers	96
415 128 890	5/16"-1" Woody's Gold Diggers	144
415 128 891	5/16"-1" Woody's Gold Diggers	1000
415 128 892	5/16"-1.075" Woody's Gold Diggers	24
415 128 893	5/16"-1.075" Woody's Gold Diggers	96
415 128 894	5/16"-1.075" Woody's Gold Diggers	144
415 128 895	5/16"-1.075" Woody's Gold Diggers	1000
415 128 896	5/16"-1.325" Woody's Gold Diggers	24
415 128 897	5/16"-1.325" Woody's Gold Diggers	96
415 128 898	5/16"-1.325" Woody's Gold Diggers	144

Tunnel Protector Kit

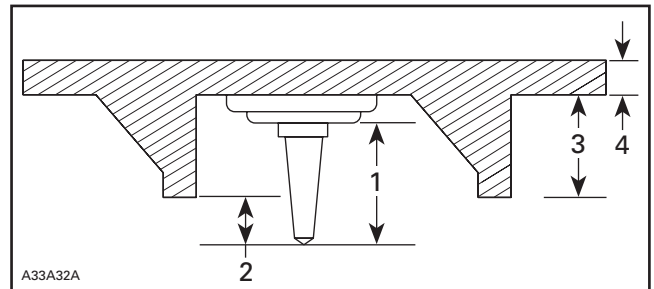
CHASSIS TYPE	TRACK DIMENSION	KIT P/N
REV / RT 2005	121 x 0.880	861 802 800
	121 x 1.000	
	121 x 1.250	
	121 x 1.250 (Production vehicles with 1.250 tracks require this kit)	861 786 400
	136 x 0.880	
	136 x 1.250	
REV FAN 2005	121 x 0.880	861 790 600
	121 x 1.000	
	136 x 0.880	
	136 x 1.000	861 785 600
	121 x 1.250	
	136 x 1.250	

B) STUDS INSTALLATION

NOTE: Always stand by BRP's *stud/track size* recommendations.

Photo shows:

- 1) Stud size
- 2) Penetration range 6.4 to 9.5 mm (1/4 to 3/8 in)
- 3) Track lug height
- 4) Track belt thickness



Tools Required

- Woody's[†] 7 mm Track Hole Cutter (P/N 415 128 884)
- 5/32" hex. Allen wrench
- Ratchet wrench with 1/2" hex. deep socket
- Torque wrench
- Electric drill with 3/8" chuck

Procedure

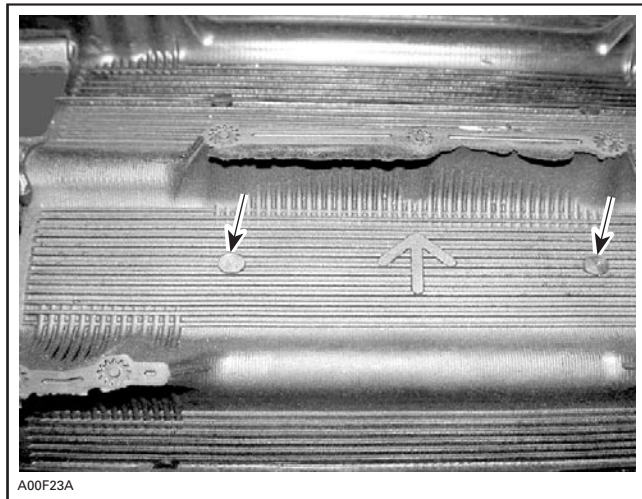
- Inspect the track to make sure that it is in good condition. Never install studs on a deteriorated or damaged track. Look for perforations, tears (particularly around traction holes), broken or torn lugs exposing portions of rods, delamination of the rubber, broken rods, missing track guides, etc.

WARNING

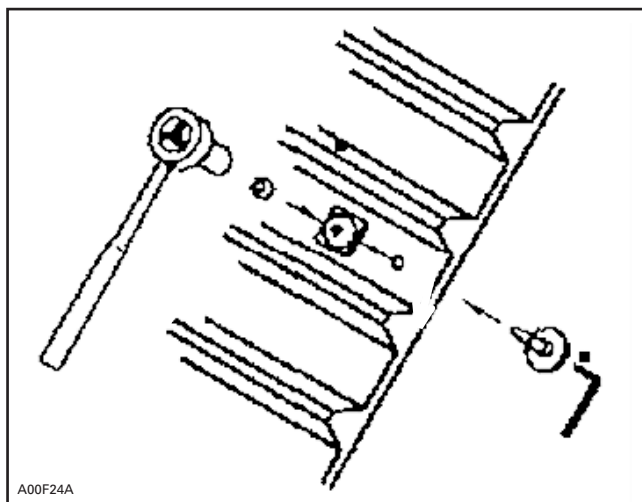
Always wear eye protection and appropriate gloves when using power tools.

[†] Woody's is a registered trademark of International Engineering & Manufacturing Inc.

- Locate the molded bulges in the track indicating the locations where the installation of stud is allowed. Drill holes using a 7 mm Woody's Track Hole Cutter.



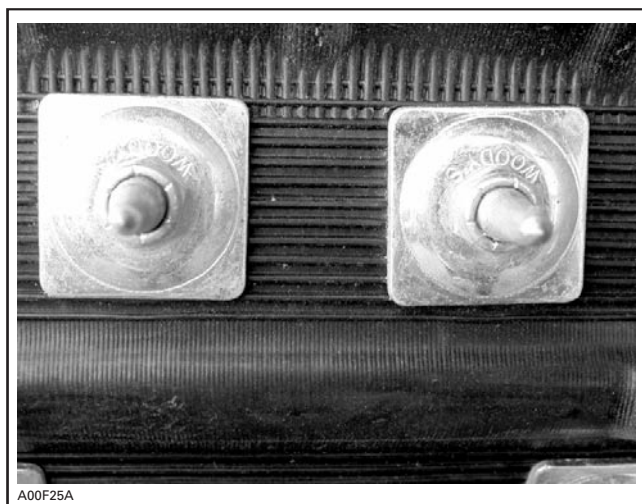
- Push the stud through the hole from the inside of the track. Place the domed support plate, then the lock nut on the exposed stud. Hand tighten.



- Line up and hold the support plates so that they remain parallel with the lugs and the side of the track.

⚠ WARNING

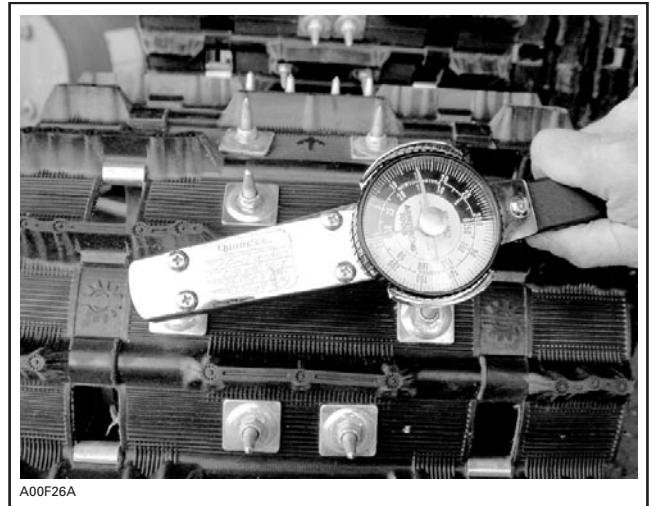
Failure to align the support plates parallel with the lugs and the side of the track can cause the support plates to dig into and weaken or damage the track and cause track failure, which could result in personal injury or snowmobile and property damage.



- Using a 5/32" hex. Allen wrench to hold the stud, tighten with a socket until the domed support plate bottom contacts the shoulder of the stud. Torque to 20-24 N•m (15-18 lbf•ft).
- Install the appropriate tunnel protectors as described in the Tunnel Protector Kit chart in this bulletin.

⚠ WARNING

If tunnel protectors are excessively worn or not installed, the gas tank could be punctured, causing a fire.



A00F26A

- Install the warning label supplied on the rear bumper or another appropriate surface where the label will be clearly seen by a person standing behind the snowmobile. Before applying the label, clean the surface with isopropyl alcohol and let dry thoroughly.

NOTE: It is very important to install the warning label as described above. This will help ensure the safety of the occupants as well as any bystanders.



A00F27A

Warning Label

This product comes with the following warning label containing important safety information.

<p>⚠ WARNING</p> <ul style="list-style-type: none"> ◦ NEVER STAND BEHIND or near a rotating track. ◦ Only spin track at lowest possible speed whenever off the ground. <p>Broken track or debris could be projected with great force which could sever legs or cause other serious injuries.</p>		<p>⚠ AVERTISSEMENT</p> <ul style="list-style-type: none"> ◦ NE JAMAIS SE TENIR DERRIERE ou près d'une chenille qui tourne. ◦ Faire tourner la chenille seulement à la vitesse la plus basse possible lorsque soulevée de terre. <p>Une chenille brisée ou des débris pourraient être projetés avec grande puissance pouvant sectionner une jambe ou causer d'autres blessures sérieuses.</p> <p style="text-align: right;">514002873a</p>
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A00F28S

If the label comes off or becomes hard to read, please contact BRP for a replacement.

C) WARRANTY POLICY

BRP's Track Limited Warranty

Conditions to have Warranty Coverage

- Use only studs, mounting plates, and nuts sold by the snowmobile manufacturer.
- Always refer to the application charts for studs selection.
- Follow approved installation instructions.
- Maximum of 96 studs for 121" tracks.
- Maximum of 108 studs for 136" tracks.
- Use pre-marked tracks only.
- Studs must be installed by an authorized BRP dealer.

Exclusions — What's not covered

- Damage resulting from studs installed on tracks if the installation is not conform to BRP's instructions.
- Failures caused by non-installation of appropriate protector kit.
- Use of non-approved parts.
- Studding of non-pre-marked tracks.
- BRP's warranty does not cover the studs. Woody's is responsible for warranty coverage of the studs. Refer to Woody's limited warranty.

Shipping of Parts for Warranty Purposes

If a failure occurs to a studded track caused by a manufacturing defect of the track, submit a warranty claim and send the part to the *Warranty Inspection Center*.

For any track failure, make sure that it is caused by a manufacturing defect. If you have any doubts as to the warrantability of the track, we suggest that you contact the BRP Technical Service Department in order to determine if the failure is in fact due to a manufacturing defect before cutting the track. The fact the track has been cut will in no way affect BRP's decision to cover or not the track.

You must leave 1 row of studs on the track.

If you choose to send the minimum section of 24 inches of the track (at least 12 rods), it must show both the track serial number as well as the defect in the track, as per the procedure detailed in the *Warranty Service Guide*.

In situations where only a section of the track is returned, you must keep the remainder of the track

properly tagged for a minimum of 90 days since we might need to examine it.

Woody's Studs Limited Warranty

INTERNATIONAL ENGINEERING & MANUFACTURING, INC. WARRANTS each product manufactured by it to be free from defects in material and workmanship under use for the purpose for which it is intended. The Company shall not be liable for damage or delays caused by defects caused by defective materials or workmanship; is limited to the repair or replacement at its factory of defective article or part thereof, which may be returned to the factory, transportation charges prepaid, within one (1) year after delivery to the original purchaser. Proof of purchase is also required. The Company shall be the sole judge of the existence of any defect in the article so returned. No claims for charges incurred in the removal, disassembly or reinstallation of such article shall be allowed. Product manufactured for consumer use on snowmobiles is designed for snow or ice only, use on any other surface voids warranty.

This Warranty shall not cover any article which has been misused or neglected or damaged by accident or any article which has been altered outside the Company's factory. Does not cover bending, chipping, flaking or carbide pin breakage or pin loss from stud wear, stud replacement labor or shipping.

The Company shall, in no event be liable for consequential damage or contingent liability arising out of any total or partial failure to function of any article manufactured by it or of any equipment on or in which it is used. Failure of a user to give notice to claim as to defect claimed under the provisions of this Warranty within 1 year after delivery to original user, such claim shall constitute a waiver by consumer of all claims with respect to goods and equipment.

No express, implied, or statutory warranty other than that herein set forth is made or authorized to made by the Company. All returned warranties will not be accepted without return authorization number.

Team Woody's, Woody's Flat Top, Top Stock, Extender Trail II, Trail Blazer IV, Executive Series, Shursteer are tradenames and/or trademarks

of International Engineering Manufacturing
Incorporated.

Warranty Claims

Do not send studs or support plates to
Bombardier Recreational Products (BRP) for
warranty claims. Contact Woody's Engineering
to obtain a return authorization number.

Ask the Experts Tech Line

By phone Monday-Friday 8am – 4pm ET:

989-689-4911

On line 24/7:
woodystraction.com

Please make sure all involved personnel are aware
of this important policy.

Please route to:

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **November 19, 2004**

Subject: **Piston and Cylinder Replacement on 995 Engines**

No. **2005-10**

YEAR	MODEL	PACKAGE	MODEL NUMBER	SERIAL NUMBER
2005	Mach Z®	Adrenaline	AB5A / AB5B / AB5C	All
	Summit®	Highmark X	CA5A / CA5B / CA5C / CA5D	
		Highmark	CD5A / CD5B / CD5C / CE5A	

The new 995 engine may use 2 different sizes of piston; therefore, when a piston needs to be replaced, it is important to correctly identify its exact size before proceeding with its replacement.

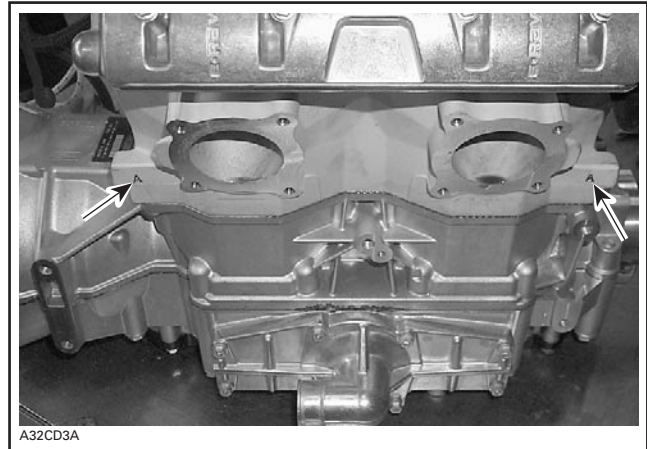
The pistons and cylinders are identified by the letters "A" or "B".

On the pistons, the identification stamp is located on top.



A32CD2A

For the cylinders, the identification stamp is located on the exhaust side of the block.



NOTE: A cylinder block may use 2 different sizes of piston, it is very important to look on the correct side. **Always match piston "A" with cylinder "A" and piston "B" with cylinder "B".**

When a cylinder needs to be replaced, only a cylinder block is available as spare part and it comes as an assembly with 2 pistons.

If only one piston and cylinder need to be replaced, replacement of both pistons with the cylinder block is required.

Following table gives the part numbers, should they be required.

DESCRIPTION	P/N
Cylinder Block Assy (with pistons)	420 890 960
Piston, size "A" (with rings)	420 889 231
Piston, size "B" (with rings)	420 889 232
Piston Rings	420 815 370

Please notify all involved personnel.

Please route to:

<input type="checkbox"/> Service	Init.	<input type="checkbox"/>
<input type="checkbox"/> Sales		<input type="checkbox"/>
<input type="checkbox"/> Parts		<input type="checkbox"/>



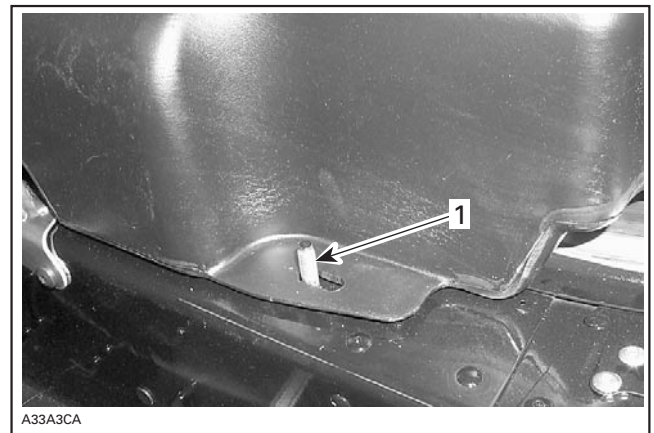
Date: **November 22, 2004**

Subject: **1+1 Seat Kit Installation**

No. **2005-11**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All REV Platform	All REV Platform	All

While installing either of the following 1+1 seat kits, (P/N 861 002 100), (P/N 861 002 200) or (P/N 861 002 300) on above-mentioned vehicles, measure studs [1], where seat support attaches.



Its length from the tunnel surface should be at least 25 mm (1 in). If it is shorter, studs have to be replaced.

Refer to following table for required parts.

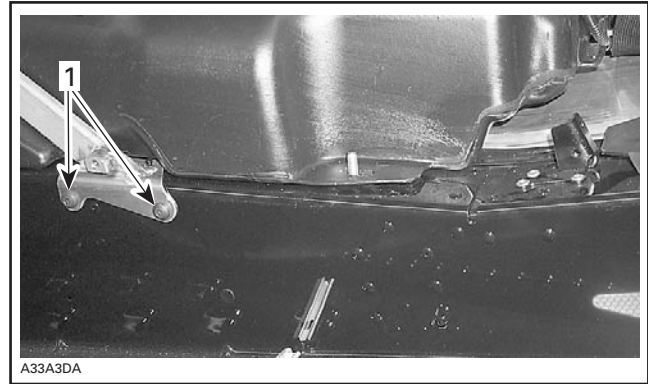
DESCRIPTION	P/N	QTY
Stud	518 322 791	2
Rivet	390 402 400	2
M8 x 13 Torx† Head Screw	250 000 154	4

† Torx is a trademark of Camcar-Textron.

Procedure

- Once the step of the installation of the seat support ([P1] in kit) is reached, lift gas tank. Refer to page 159 of the appropriate *Shop Manual* for proper procedure.

NOTE: To be able to move gas tank, it will be necessary to unscrew and remove the M8 x 13 Torx head screws [1] retaining left and right aluminum braces to tunnel.



WARNING

Always wear eye protection and appropriate gloves when using power tools.

- Drill out stud support plate rivet on both sides.
- From inside of the tunnel, insert a new stud on each side and secure them in place with a rivet.
- Lower tank back in place.
- Secure aluminum braces using new M8 x 13 Torx head screws.
- Resume the step-by-step procedure, to install the 1+1 seat, in the *Instruction Sheet* included in the kit.

Please route to :

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **November 23, 2004**

Subject: **Paint Codes**

No. **2005-12**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All	All	All

This bulletin lists B.A.S.F., R-M and PPG paint codes corresponding to snowmobile hood, frame, cylinder head/cover and suspension components; it also provides the paint codes for the body pan, center console, side panels, bumpers and knee deflectors for the REV platform.

It is divided in 3 sections:

- 2005 Ski-Doo paint codes for all platforms.
- List of all Ski-Doo paint codes and corresponding B.A.S.F., PPG and spray can equivalents (where available).
- List of new paint code mixes.

Refer to *Service Bulletin* 99-10, Revision 1, for 1999 and previous model year snowmobiles.

Refer to *Service Bulletin* 2000-18 for 2000 model year snowmobiles.

Refer to *Service Bulletin* 2001-8 for 2001 model year snowmobiles.

Refer to *Service Bulletin* 2002-7 for 2002 model year snowmobiles.

Refer to *Service Bulletin* 2003-2 for 2003 model year snowmobiles.

Refer to *Service Bulletin* 2004-7 for 2004 model year snowmobiles.

RT Platform

DESCRIPTION				Hood and center console/ side panels	Frame	Cyl. Head/ Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	A-Arm	Spring
MACH Z®	1000 SDI	Adrenaline	Black/Black	B-160/B-160	B-160	B-205R	B-211	B-160	B-211
Summit®		Highmark	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
			Yellow/Blue	B-190/B-226	AL	B-205R	B-190	B-160	B-190
		Highmark X	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
			Yellow/Blue	B-190/B-226	AL	B-205R	B-190	B-160	B-190

ZX Platform

DESCRIPTION				Hood/Pan	Frame	Cyl. Head/ Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	Front Swing Arm	Spring
Legend™	V-1000	Sport	Black/Black	B-160/B-160	B-211	B-205R	B-211	B-211	B-211
		SE	Black/Black	B-160/B-160	B-211	B-205R	B-211	B-211	B-211
Legend GT		Sport	Black/Black	B-160/B-160	B-211	B-205R	B-211	B-211	B-211
		SE	Black/Black	B-160/B-160	B-211	B-205R	B-211	B-211	B-211

Yeti Platform

DESCRIPTION				Hood/Pan	Frame	Cyl. Head/ Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	Front Swing Arm	Spring
Expedition™	V-1000	TUV	Sea Shore/ Black	B-207/B-160	B-160	B-205R	B-211	B-211	B-211
			Black/Black	B-160/B-160	B-160	B-205R	B-211	B-211	B-211
	600 HO SDI	TUV	Sea Shore/ Black	B-207/B-160	B-160	B-205R	B-211	B-211	B-211
			Black/Black	B-160/B-160	B-160	B-205R	B-211	B-211	B-211

Lynx Platform

DESCRIPTION				Hood/Pan	Frame	Cyl. Head/Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	Front Swing Arm	Spring
Skandic®	600	SUV	Black/Black	B-160/B-160	B-160	N.A.	B-190	B-160	B-211
			Yellow/Black	B-190/B-160	B-160	N.A.	B-190	B-160	B-211
	550 F		Black/Black	B-160/B-160	B-160	N.A.	B-190	B-160	B-211
			Yellow/Black	B-190/B-160	B-160	N.A.	B-190	B-160	B-211
	600	WT	Yellow/Black	B-190/B-160	B-160	N.A.	B-190	N.A.	N.A.
			550 F	Yellow/Black	B-190/B-160	B-160	N.A.	B-190	N.A.
	550 F	SWT	Yellow/Black	B-190/B-160	B-160	N.A.	B-190	N.A.	N.A.
	440 F	LT	Yellow/Black	B-190/B-160	B-160	N.A.	B-190	N.A.	N.A.

Tundra Platform

DESCRIPTION				Hood/Pan	Frame	Cyl. Head/Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	Swing Arm	Spring
Tundra™	277	—	Black/Black	B-160/B-160	B-160	N.A.	B-160	N.A.	N.A.
			Yellow/Black	B-190/B-160	B-160	N.A.	B-160	N.A.	N.A.

Mini Z Platform

DESCRIPTION				Hood/Pan	Frame	Cyl. Head/Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	A-Arm	Spring
Mini Z™	120	—	Yellow/Yellow	B-190/B-190	B-190	N.A.	B-190	B-160	B-190

REV Platform

DESCRIPTION				Hood and center console/ side panels	Frame	Cyl. Head/ Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	A-Arm	Spring
MX Z®	800 HO/ 600 HO SDI/ 600 HO	X™	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SDI/ 600 HO	X	Black/Yellow	B-160/B-190	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SDI/ 600 HO	X	Black/ Viper Red	B-160/B-176	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SDI	Renegade™ X	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SDI	Renegade X	Black/Yellow	B-160/B-190	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO 600 HO SDI	Renegade X	Black/ Viper Red	B-160/B-176	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SDI/ 600 HO/ 500 SS	Adrenaline	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SDI/ 600 HO/ 500 SS	Adrenaline	Black/Yellow	B-160/B-190	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SDI/ 600 HO/ 500 SS	Adrenaline	Black/ Viper Red	B-160/B-176	AL	B-205R	B-190	B-160	B-190

REV Platform

DESCRIPTION				Hood and center console/ side panels	Frame	Cyl. Head/ Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	A-Arm	Spring
MX Z	800 HO/ 600 HO SD/ 600 HO	Renegade	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
MX Z	800 HO/ 600 HO SD/ 600 HO	Renegade	Black/Yellow	B-160/B-190	AL	B-205R	B-190	B-160	B-190
MX Z	600 HO/ 500 SS	Trail	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
MX Z	600 HO/ 500 SS	Trail	Yellow/Yellow	B-190/B-190	AL	B-205R	B-190	B-160	B-190
MX Z	550/ 380	Fan	Black/Black	B-160/B-160	AL	N.A.	B-160/ B-190	B-160	B-190
MX Z	550/ 380	Fan	Yellow/Yellow	B-190/B-190	AL	N.A.	B-160/ B-190	B-160	B-190
Summit	800 HO	X	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
Summit	800 HO	X	Yellow/ Labrador Blue	B-190/B-226	AL	B-205R	B-190	B-160	B-190
Summit	800 HO/ 600 HO	Adrenaline	Black/Black	B-160/B-160	AL	B-205R	B-190	B-160	B-190
Summit	800 HO/ 600 HO	Adrenaline	Yellow/ Labrador Blue	B-190/B-226	AL	B-205R	B-190	B-160	B-190
Summit	550	Fan	Black/Black	B-160/B-160	AL	N.A.	B-160/ B-190	B-160	B-190

REV Platform

DESCRIPTION				Hood and center console/ side panels	Frame	Cyl. Head/ Cover	SUSPENSION COMPONENTS		
MODEL	ENGINE	PKGE	COLOR				Wheel	A-Arm	Spring
GSX®	800 HO/ 600 HO SDI	Limited	Silver/ Labrador Blue	B-243/B-226	AL	B-205R	B-211	B-160	B-211
GSX	800 HO/ 600 HO SDI	Limited	Black/Black	B-160/B-160	AL	B-205R	B-211	B-160	B-211
GSX	600 HO SDI/ 600 HO/ 500 SS	Sport	Black/Black	B-160/B-160	AL	B-205R	B-211	B-160	B-211
GSX	600 HO SDI/ 600 HO/ 500 SS	Sport	Black/ Viper Red	B-160/B-176	AL	B-205R	B-211	B-160	B-211
GSX	550/ 380	Fan	Black/Black	B-160/B-160	AL	B-205R	B-160/ B-211	B-160	B-211
GTX†	800 HO/ 600 HO SDI	Limited	Seashore/ Earth Grey	B-207/B-231	B-207	B-205R	B-207	B-160	B-207
GTX	800 HO/ 600 HO SDI	Limited	Black/Black	B-160/B-160	B-211	B-205R	B-211	B-160	B-211
GTX	600 HO SDI/ 600 HO/ 500 SS	Sport	Black/Black	B-160/B-160	AL	B-205R	B-211	B-160	B-211
GTX	600 HO SDI/ 600 HO/ 500 SS	Sport	Silver/ Labrador Blue	B-243/B-226	AL	B-205R	B-211	B-160	B-211
GTX	550/ 380	Adrenaline	Black/Black	B-160/B-160	AL	B-205R	B-160/ B-211	B-160	B-211
Expedition	550 F	Sport	Black/Black	B-160/B-160	AL	B-205R	B-160/ B-211	B-160	B-211

† GTX is a registered trademark of Castrol Ltd, used under license.

CORRESPONDING PAINT CODES

BRP		B.A.S.F., R-M	PPG	SPRAY CAN
B-160	Deep Black	RM 85366	DCC 95066 DBC 9554	413 409 100
B-176	Viper Red	Refer to paint code mix below		
B-190	Yellow 2000 (HOOD)	89849F	DBU 88272	413 413 000
B-205R	Diamond	Refer to paint code mix below		
B-207	Seashore Metallic	98900	DBC-BC 901500	N.A.
B-211	Full Moon	94880	DBC 37415	N.A.
B-226	Labrador Blue	Refer to paint code mix below		
B-231	Earth Grey	33842	N.A.	N.A.
B-243	Spy Silver	Refer to paint code mix below		

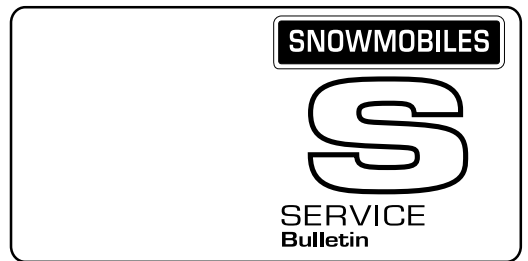
N.A.: Not Available.

PAINT CODE MIXES

B-176	Viper Red	B-205R	Diamond	B-226	Labrador Blue	B-243	Spy Silver
RM 22122		BASF		RM		BASF M1138J	
BC	150 = 83.4	M2 = 157.4		UR	= 83.6	UR	50 = 80.8
BC	815 = 912.7	M99/12 = 593.4		BC	400 = 771.6	BC	180 = 633.9
		M99/10 = 807.9		BC	190 = 834.0	BC	171 = 685.0
		A125 = 820.8		BC	200 = 861.4	BC	105 = 716.4
		A926 = 833.8		BC	840 = 901.2	BC	250 = 719.0
		A098 = 845.9				BC	101 = 885.1
		A5563 = 857.2					
		M1 = 865.0					

Please route to:

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **December 3, 2004**

Subject: **Claiming Non-defective Parts**

No. **2005-13**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1999 to 2005	All	All	All

Every year, we receive many warranty return parts that are not defective or damaged (through defect).

It is of the utmost importance that dealer's service personnel correctly determine if a part needs to be replaced or not.

Any authorization to replace parts, written or verbal, is given based on the description of the damaged part. If a part received by the warranty analyst does not match the authorization comments or is not defective, or damaged through defect, the entire claim, or a portion of the claim may be rejected.

Dealer should keep in mind that:

- Pistons need not be replaced in pairs.
- Crankshafts need not be replaced when only bearings are damaged or dirty.
- Cylinders need not be replaced with every piston.
- MPEMs rarely need to be replaced.

In the past we have been fairly lenient with this issue, however, we continue to see too many good parts being replaced for no apparent reason. In the future, **needlessly replaced parts will be rejected from the claim and held for 90 days for dealer's recall**, per normal warranty procedures.

Here are examples of parts that need not be replaced and will be rejected from claims in the future.



NORMAL MOLY COAT WEAR ON A PISTON



NORMAL WEAR ON A CYLINDER WALL

For more information on parts inspection and analysis refer to the DIMENSION MEASUREMENT section of the appropriate *Shop Manual*, chapter 2 of the BRP *Guide to Service Fundamentals* book, or DVD 1 of the BRPTI training series.

If any further questions arise please contact a Service Representative.

Please route to:

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



Date: **December 10, 2004**

Subject: **Battery**

No. **2005-14**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2003 – 2004 – 2005	All	All	All

Through several surveys, inspections and consultations with battery suppliers it has come to our attention that an excessive number of batteries are replaced.

Many times these batteries are warranted as being defective when indeed studies show they contain no factory defect. Inappropriate claiming of batteries is costing everyone through increased BRP costs.

Improper predelivery, poor maintenance, and improper charging methods contribute to the majority of battery failures. Over 60% of battery claims are filed after the storage season. It is obvious that poor storage period maintenance and improper PDI are the leading causes of battery failure, not factory defect!

Through proper maintenance and care, today's modern batteries can survive long storage periods, however one must adhere to the proper procedures as outlined in BRP Shop Manuals, PDI Bulletins and Operator's Guide. Special attention must be given to preseason and storage care procedures. Over the past years, we have provided training material and discussions on battery care in our technical training courses and in our technical documentation to help you and your customers maintain vehicle batteries.

In light of these studies and this situation, BRP and its suppliers will no longer honor warranty claims for batteries that are not truly defective. Poor maintenance and storage will no longer be tolerated as reason to find a battery defective.

As of this date, all battery claims will be scrutinized carefully by a warranty analyst or a service representative. Be prepared to supply documentation supporting proper maintenance, storage and customer acknowledgement of warranty policy (signed PDI sheet). We will also be performing random field inspections of batteries claimed during the 90 day warranty parts holding period and might even request that some batteries be returned to BRP for inspection.

We, at BRP, will willingly fulfill our obligation to warrant any battery found to contain a factory defect, however we will no longer consider claims for batteries following a storage season. Please review proper storage procedures with your customers. We trust your cooperation in helping us administer this procedure, and trust that you will follow all battery maintenance procedures on your customers' behalf.

Please route to :

Init.

Service

Sales

Parts



Date: **April 01, 2005**

Subject: **New Service Tools**

No. **2005-15**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All	All	All

Optional Tools

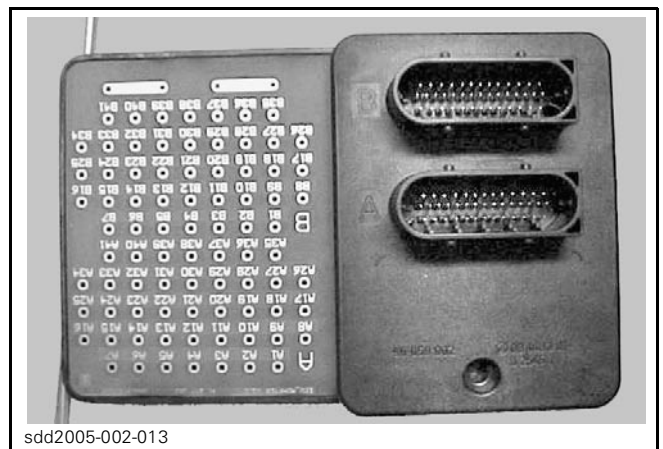
NOTE: Optional tools are not auto-shipped; they have to be ordered through regular channel.

ECM troubleshooting tool (P/N 420 277 010)

Application: all 4-TEC and SDI

This tool will allow you to take resistance checks from a component's connector to the other side of the ECM's connector.

Will be available to order mid-March 2005.

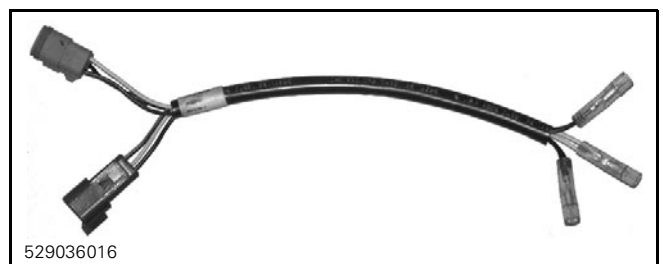


4-TEC magneto 3 pin connector harness (P/N 529 036 016)

Application: all 4-TEC engines

To troubleshoot the 4-TEC magneto.

Will be available to order mid-April 2005.



Please route to :

<input type="checkbox"/> Service	<input type="checkbox"/> Init.
<input type="checkbox"/> Sales	<input type="checkbox"/>
<input type="checkbox"/> Parts	<input type="checkbox"/>



SNOWMOBILES



SERVICE
Bulletin

Date: **September 21, 2005** Subject: **HPV-R Driven Pulley Maintenance Procedure** No. **2005-16**

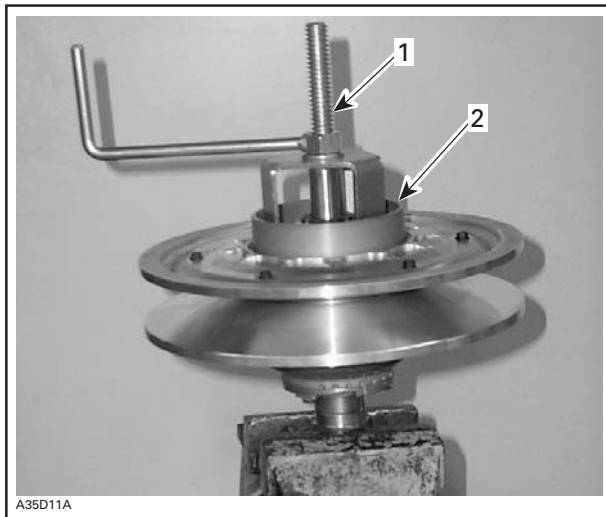
YEAR	MODEL	PACKAGE	MODEL NUMBER	SERIAL NUMBER
2005	Mach Z	All	All	All

The HPV-R driven pulley introduced on MY05 Mach Z requires different maintenance procedure than the HPV-27. According to the Maintenance Chart, cleaning of the HPV-R should be performed every pre-season inspection or every 3200 km (2000 miles).

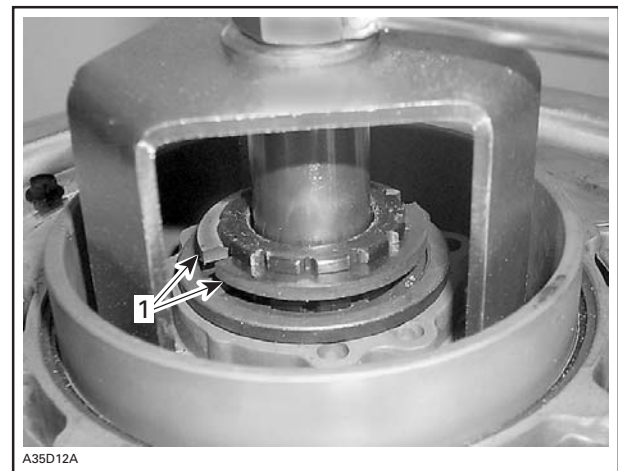
PROCEDURE

Disassembly

- Using the clutch spring compressor [1] (P/N 529 036 012), push the cam [2].



- Remove the half keys [1].



- Unscrew clutch spring compressor, remove cam and spring.
- Separate the 2 pulley halves.

⚠ WARNING

Driven pulley cam is spring loaded, use only the above mentioned tool. Do not use other clutch spring compressor.

- Remove the roller circlip, the washer and the roller from the roller axle.
- Remove the rollers axles by unscrewing the roller axle screws. Heat roller axles to break the thread locker.



Cleaning

Pulley Halves

- Clean pulley halves using a paper towel with pulley flange cleaner (P/N 413 711 809). If necessary, use a fine steel wool and a dry cloth to remove a stubborn deposit.

Bushings and Cam

During break-in period (about 10 hours of use), teflon from bushing moves to cam or shaft surface. A teflon over teflon running condition occurs, leading to low friction. So it is normal to see gray teflon deposit on cam or shaft. Do not remove that deposit, it is not dust.

When a dust deposit has to be removed from the cam or the shaft, use dry cloth to avoid removing transferred teflon.

Inspection

Pulley Halves

- Check pulley halves for marks or scratches.
- Check splines in fixed half pulley.

Bushings

- Using a dial bore gauge, measure the inner diameter of small and large bushings. Measuring point must be at least 5 mm (1/4 in) from bushing edge.



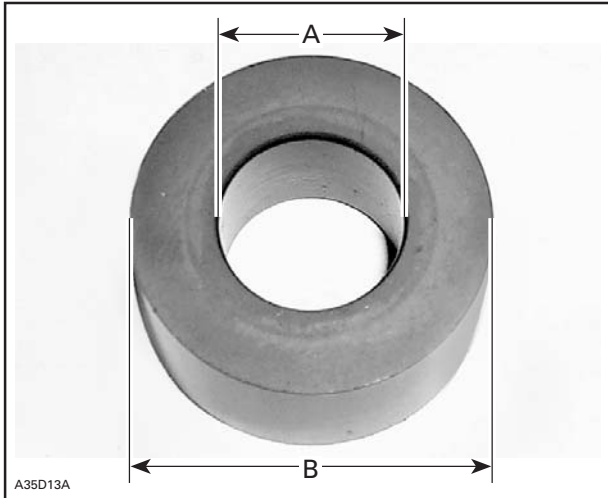
Bushing	Service Limit
Small bushing	38.30 mm (1.508 in)
Large bushing	108.2 mm (4.260 in)

Replace the bushing if the measurement is out of specification. Refer to the appropriate Shop Manual for procedure.

Rollers

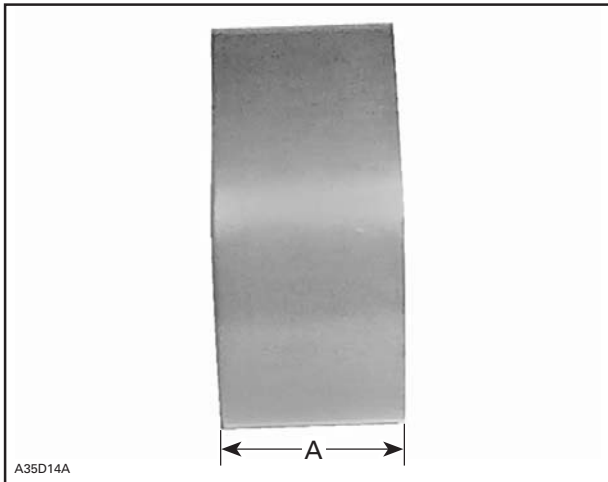
- Check the rollers for flat spots, cracks or other visible damages.

- Measure inner [A] and outer diameter [B] of rollers.



Roller diameter	Service Limit
Inner diameter	12.5 mm (.492 in)
Outer diameter	23.5 mm (.925 in)

- Measure the roller thickness [A].



Roller Thickness	
Service limit	10.5 mm (.413 in)

Cam

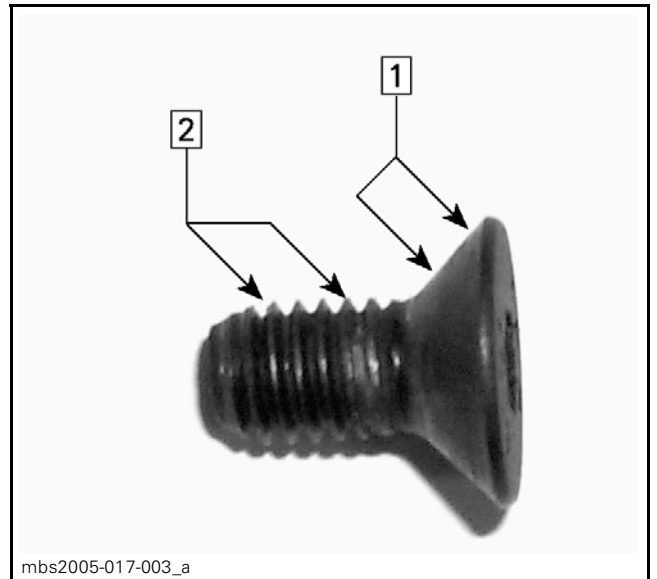
- Verify contact surfaces of cam for visible damages.
- Check splines condition.

Assembly

- Use a 6 mm x 1.0 "tap" to clean roller axles threads before installation.



- Add anti seize grease [1] (P/N 293 800 070) only under bolt head, making sure there is none on the threads.
- Apply red Loctite [2] (P/N 293 800 005) on screw threads.



- Assemble roller screws to the roller axles.
- Torque roller axle screws.

Roller Axle Screw Torque	12 to 14 N•m (106 to 124 lbf•in)
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- Reverse the disassembly procedure to assemble the rest of the components.