Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-1**

Date: May 26, 1997

SUBJECT: Fan Belt Installation Procedure

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	MX Z* 440 F	1264/1265/1266	ALL
1998	TOURING* E	1234/1235/1236	ALL
1998	TOURING* LE	1232/1233/1305	ALL
1998	TOURING* SLE	1229/1230/1231	ALL
1998	SKANDIC*380	1240/1241/1242	ALL
1998	SKANDIC*500	1237/1238/1239	ALL
1998	SKANDIC*WT	1286/1287	ALL
1998	SKANDIC*SWT	1288/1289	ALL

GENERAL

This bulletin describes the proper procedure to replace or adjust fan belt. This procedure is applicable for all fan cooled engines, including previous year models.

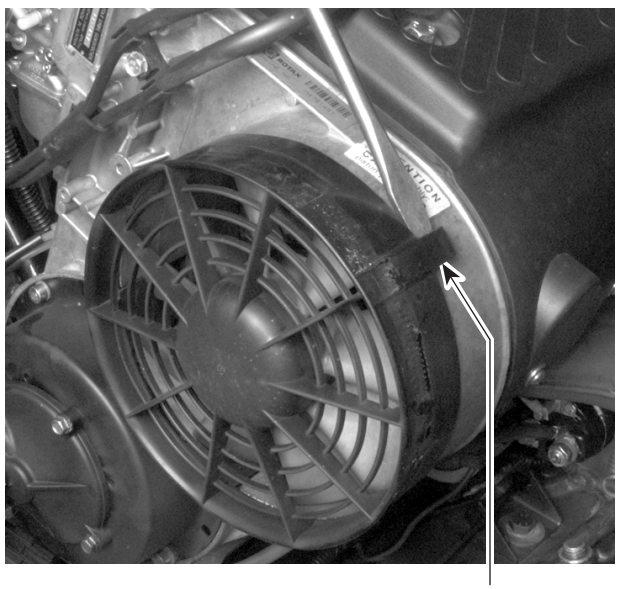
PROCEDURE

Disassembly

Remove muffler.

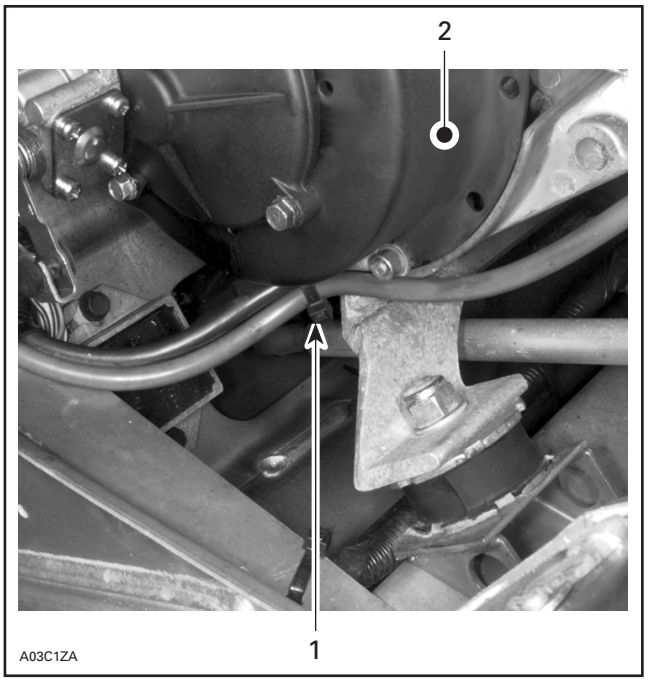
Remove air deflector.

Using a flat screwdriver, lift fan protector tabs as shown in the following photo, then remove fan protector.



1. Lift tab and remove fan protector

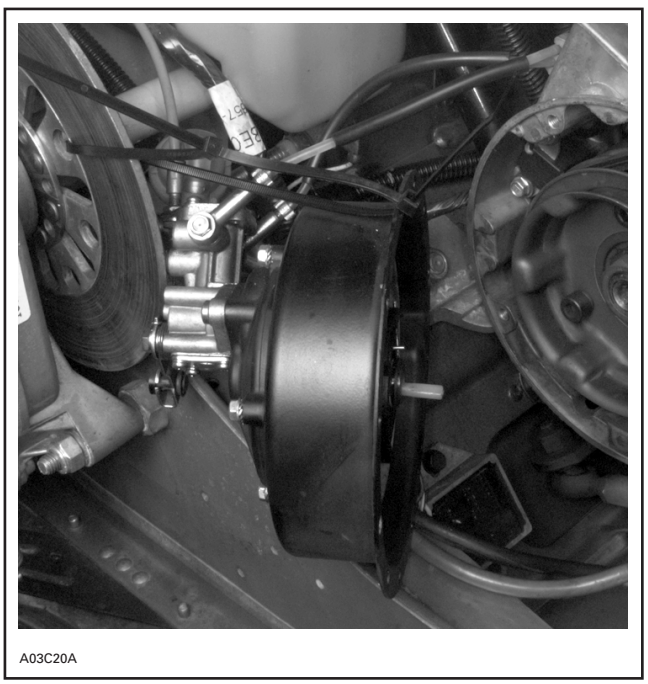
Cut locking tie located under rewind starter, as shown in the following photo.



1. Cut this locking tie
2. Rewind starter

Remove rewind starter.

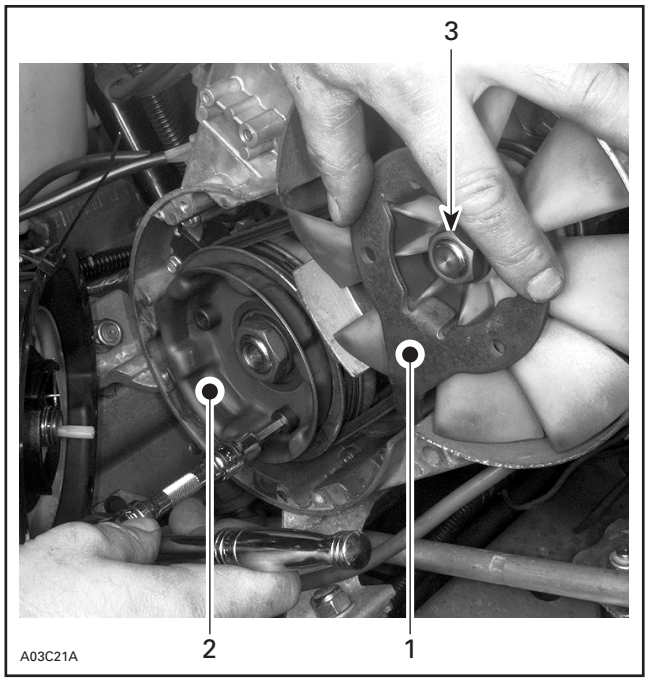
NOTE: Temporarily attach rewind starter to disk brake to ease pulley replacement. Refer to the following photo.



REWIND STARTER TEMPORARILY ATTACHED TO DISK BRAKE WITH LOCKING TIE

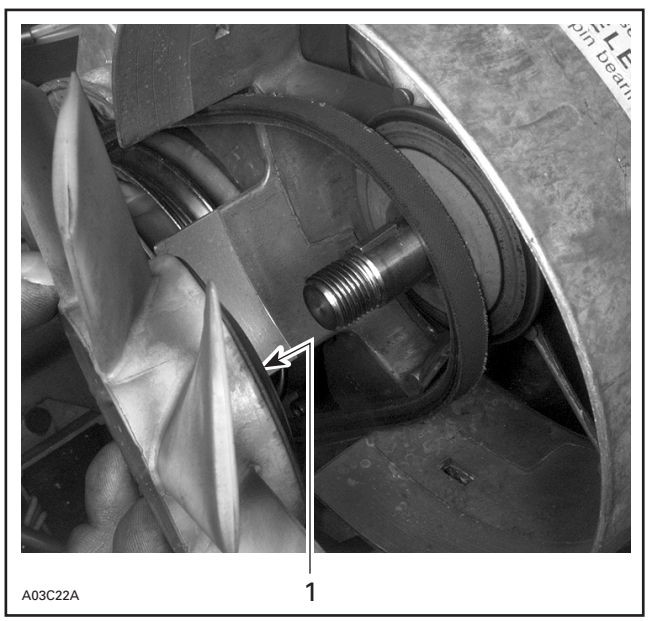
Using fan holder tool (P/N 420 8763 57), unscrew starting pulley screws and remove pulley.

With fan holder tool still in place, remove fan nut. Refer to the following photo.



1. Fan holder tool
2. Remove starting pulley
3. Remove fan nut

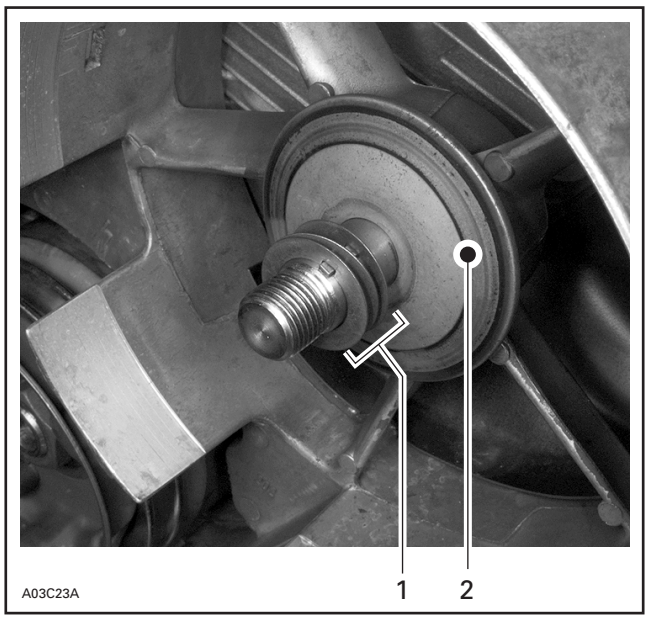
Remove fan with pulley half, as shown in the following photo.



1. Remove fan with pulley half

Remove fan belt.

Leave shims and second half pulley in place. Refer to the following photo.



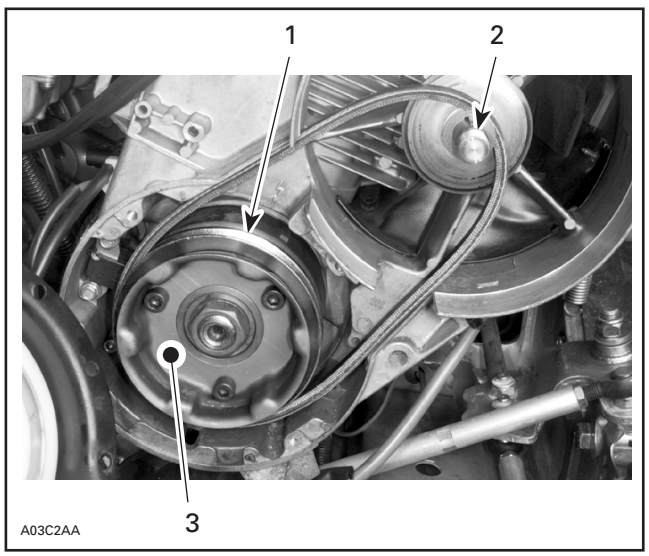
1. Keep shims
2. Leave second half pulley in place

Reassembly

Reinstall bottom pulley first.

Reinstall starting pulley. Apply Loctite 242 (blue) and torque screws to 22 N•m (195 lbf•**in**).

Install fan belt on bottom pulley first then position onto fan shaft, as shown in the next photo.



FAN BELT PROPERLY INSTALLED ON BOTTOM PULLEY AND FAN SHAFT

1. Bottom pulley
2. Fan shaft
3. Starting pulley

Reinstall fan assembly on fan shaft. Temporarily tighten fan nut.

▼ CAUTION

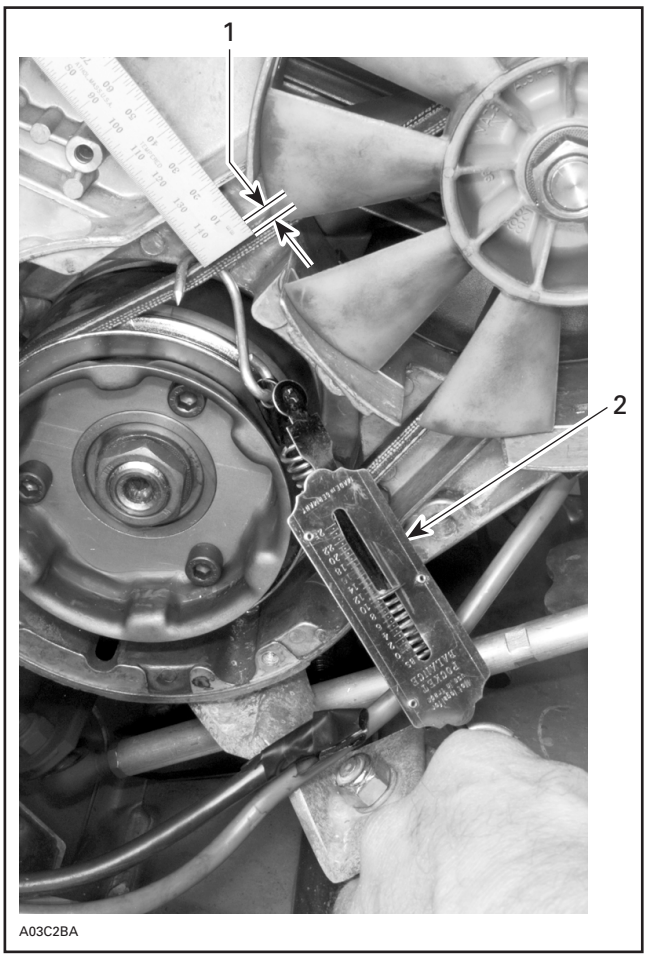
When reinstalling fan assembly, ensure that key is properly positioned into fan shaft keyway.

FAN BELT DEFLECTION ADJUSTMENT

To adjust fan belt deflection, add or remove shim(s).

Discard excess shim(s).

Adjust fan belt deflection with a fish scale, positioned midway between pulleys as per following photo.



TYPICAL

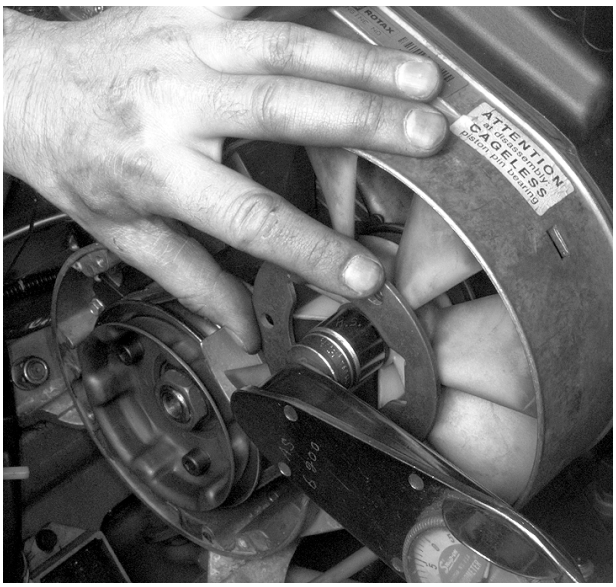
1. Adjust deflection here
2. Fish scale

Adjust fan belt deflection according to the following specifications:

ENGINE TYPE	BELT DEFLECTION	FORCE APPLIED
377, 443	8.5 mm (11/32 in)	5 kg (11 lb)
503	9.5 mm (3/8 in)	

Once fan belt is properly adjusted, torque fan nut to 48 N•m (35 lbf•ft) using fan holder tool (P/N 420 8763 57), as shown in the following photo.

NOTE: Apply Loctite 242 (blue) on fan nut threads.



A03C24A

TORQUE FAN NUT USING FAN HOLDER TOOL

Finalizing Reassembly

Detach rewind starter from disc brake.

Reinstall rewind starter.

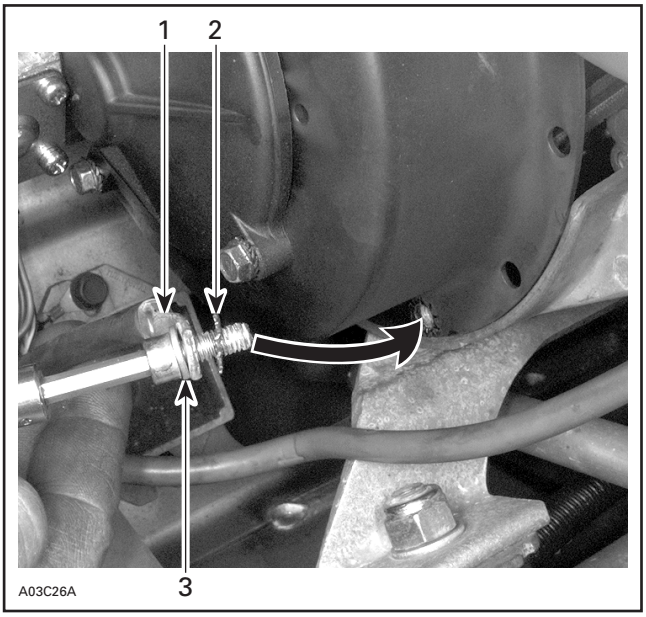
▼ CAUTION

When installing rewind starter, ensure that oil pump shaft is properly positioned. Do not force shaft insertion. Turn fan until oil pump shaft slides in place, as shown in the following photo.

A03C25A

TURN FAN TO SLIDE OIL PUMP SHAFT IN PLACE

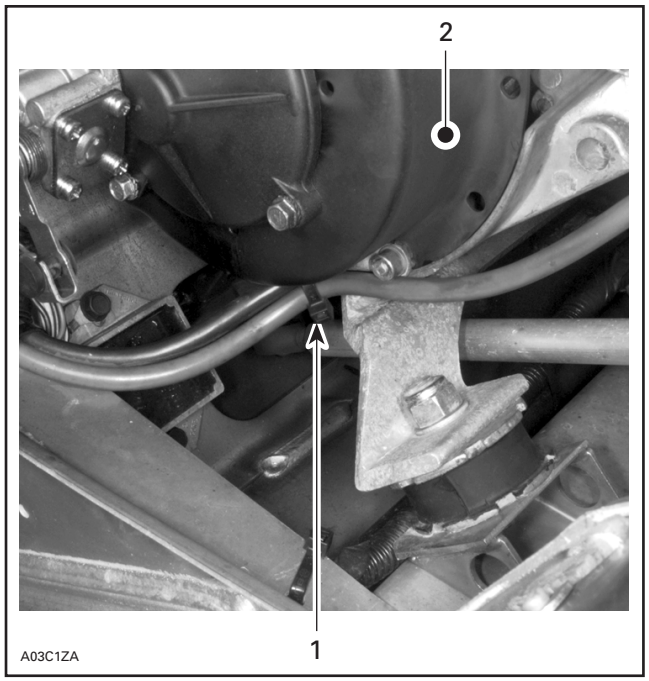
Secure rewind starter with original screws and ensure that ground cable is properly installed, as shown in the following photo.



A03C26A

1. *Ground cable*
2. *Star washer*
3. *Washer*

Secure cables with a locking tie, as shown in the next photo.



1. Secure cables with a locking tie
2. Rewind starter

Reinstall fan protector.

Reinstall air deflector.

NOTE: Ensure that air deflector recess match fan protector tab (on 1996 and 1997 models).

Reinstall muffler.

Please update the *1998 Ski-Doo Shop Manual*, *Volume 1*, (P/N 484 0680 00) section 04-07, with this bulletin.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-2**

Date: June 4, 1997

SUBJECT: 1998 Shop Manual, Volume 1 Update

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	Tundra* II LT Touring* E/LE Formula* S/S Electric/SL Skandic* 380/500	ALL	ALL

The Ignition System Testing tables have been updated (see Multimeter probe connection and Wire color).

These tables are in *1998 Shop Manual*, *Volume 1*, in subsection 06-07 (TESTING PROCEDURE).

Please update *Shop Manual* and replace with the attached.

IGNITION SYSTEM TESTING (Tundra II LT)								
Part	Test to be performed	Wire color	Multimeter probe connection	Resistance Ω		Voltage V		Note
				Value (Ohms)	Multimeter scale	Value (Volts)	Multimeter scale	
Stop switch	Running insulation	BK and BK/YL	2-02-2-M and 2-02-1-M	0.L	00.0 MΩ	—	—	No stop switch must be operational.
	Continuity in stop position	BK and BK/YL	2-02-2-M and 2-02-1-M	00.0 - 00.5	00.0 Ω	—	—	At least one stop switch must be operational.
Ignition generator coil	Output	BK and BK/RE	4-02-1-M and 4-02-2-M	40.0 - 76.0	00.0 Ω	18.0 - 30.0	00.0VAC	No stop switch must be operational.
	Stop wire continuity	BK/RE BK/YL	4-02-2-M and 2-02-1-F	00.0 - 00.5	00.0 Ω	—	—	—
	Ground continuity	BK and BK	4-02-1-M and 2-02-2-F	00.0 - 00.5	00.0 Ω	—	—	—
	Ground continuity	BK and BK	4-02-1-M and engine	00.0 - 00.5	00.0 Ω	—	—	The term "engine" refers to the engine metal parts connected to the magneto housing.
Ignition module	Output voltage	BK and WH/BL	4-01-2 and 4-01-1-F	—	—	10.0 - 20.0	00.0VAC	Disconnect WH/BL wire from coil in order to take measurements.
High voltage coil	Primary winding resistance	BK	4-01-2 and 4-01-1-M	0.6	00.0 Ω	—	—	Disconnect WH/BL wire from coil in order to take measurements.
	Secondary winding resistance (spark plug cap included)	—	Spark plug cap and 4-01-2	8.9K - 13.5K	00.0 KΩ	**▼ CAUTION** Do not measure high voltage coil output voltage.		
	Secondary winding resistance	—	Spark plug wire and 4-01-2	4.9K - 7.5K	00.0 KΩ	**▼ CAUTION** Do not measure high voltage coil output voltage.		
	Secondary winding voltage	—	On spark plug cable and 4-01-2	—	—	0.3 - 1.2	0.00VAC	The measurement must be taken on the spark plug wire (without the spark plug).
Spark plug cap	Cap resistance	—	Spark plug side and wire side	4.0K - 6.0K	00.0 KΩ	—	—	—

NOTE: Stop switches include the ignition switch, the tether cord switch and the emergency cut-out switch.

It is important to take note that voltage measurements must be taken while starting the vehicle using the manual starter.

Voltages obtained upon starting are proportional to the force applied onto the manual starter. A low voltage is therefore normal under a low cranking force.

Perform testing in the prescribed order and replace any parts not performing according to specifications.

It is important to resume all tests when replacing a component.

If not specified, the probe connecting sequence is not important.

LIGHTING SYSTEM TESTING (Tundra II LT)								
Part	Test to be performed	Wire color	Multimeter probe connection	Resistance Ω		Voltage V		Note
				Value (Ohms)	Multimeter scale	Value (Volts)	Multimeter scale	
Lighting generator coil	Power	YL and YL/BK	2-01A-F and 2-01B-F	0.05 - 0.6	00.0 Ω	3.0 - 7.0	00.0 VAC	—
	Insulation	YL and engine	2-01A-F and engine	0.L	00.0 MΩ	—	—	—

NOTE: Stop switches include the ignition switch, the tether cord switch and the emergency cut-out switch.

It is important to take note that voltage measurements must be taken while starting the vehicle using the manual starter.

Voltages obtained upon starting are proportional to the force applied onto the manual starter. A low voltage is therefore normal under a low cranking force.

Perform testing in the prescribed order and replace any parts not performing according to specifications.

It is important to resume all tests when replacing a component.

If not specified, the probe connecting sequence is not important.

M: Male connector

F: Female connector

IGNITION SYSTEM TESTING (fan-equipped S-Series)								
Part	Test to be performed	Wire color	Multimeter probe connection	Resistance Ω		Voltage V		Note
				Value (Ohms)	Multimeter scale	Value (Volts)	Multimeter scale	
Stop switch	Running insulation	BK and BK/YL	2-01C-M and 2-01D-M	0.L	00.0 MΩ	—	—	No stop switch must be operational.
	Continuity in stop position	BK and BK/YL	2-01C-M and 2-01D-M	00.0 - 00.5	00.0 Ω	—	—	At least one stop switch must be operational.
Ignition generator coil	Output	WH and GR	4-02A-M and 4-02B-M	230.0 - 330.0	00.0 Ω	30.0 - 60.0	00.0VAC	No stop switch must be operational.
	Ground continuity	WH and engine	4-02A-M and engine	00.0 - 00.5	00.0 Ω	—	—	The term "engine" refers to the engine metal parts connected to the magneto housing.
	Ground continuity	BR and engine	2-01C-F and engine	00.0 - 00.5	00.0 Ω	—	—	
Trigger coil	Continuity	RE/WH and engine	4-02C-M and engine	140.0 - 180.0	00.0 Ω	2.0 - 9.0	00.0VAC	
Ignition module and high voltage coil	Secondary winding resistance with caps	—	Between both spark plug caps	13.1K - 18.3K	00.0 KΩ	**▼ CAUTION** Do not measure high voltage coil output voltage.		
High voltage coil	Secondary winding resistance without caps	—	Between both spark plug cables	5.1K - 6.3K	00.0 KΩ	**▼ CAUTION** Do not measure high voltage coil output voltage.		
	Secondary winding voltage	—	On spark plug wire and on the engine	—	—	0.1 - 0.4	00.0VAC	The measurement must be taken on the spark plug wire (without the spark plug).
	Module insulation	BK	In the cap and on 4-02A-F	0.L	00.0 MΩ	—	—	—
	Module insulation	—	In the cap and on 4-02B-F	0.L	00.0 MΩ	—	—	—
Spark plug cap	Cap resistance	—	Spark plug side and wire side	4.0K - 6.0K	00.0 KΩ	—	—	—

NOTE: Stop switches include the ignition switch, the tether cord switch and the emergency cut-out switch.

It is important to take note that voltage measurements must be taken while starting the vehicle using the manual starter.

Voltages obtained upon starting are proportional to the force applied onto the manual starter. A low voltage is therefore normal under a low cranking force.

Perform testing in the prescribed order and replace any parts not performing according to specifications.

It is important to resume all tests when replacing a component.

If not specified, the probe connecting sequence is not important.

LIGHTING SYSTEM TESTING (fan-equipped S-Series)								
Part	Test to be performed	Wire color	Multimeter probe connection	Resistance Ω		Voltage V		Note
				Value (Ohms)	Multimeter scale	Value (Volts)	Multimeter scale	
Lighting generator coil	Power	YL and YL/BK	2-01B-F and 2-01A-F	0.05 - 0.6	00.0 Ω	2.5 - 7.0	00.0 VAC	—
	Insulation	YL and engine	2-01B-F and engine	0.L	00.0 MΩ	—	—	—
	Insulation	YL/BK and engine	2-01A-F and engine	0.L	00.0 MΩ	—	—	—

NOTE: Stop switches include the ignition switch, the tether cord switch and the emergency cut-out switch.

It is important to take note that voltage measurements must be taken while starting the vehicle using the manual starter.

Voltages obtained upon starting are proportional to the force applied onto the manual starter. A low voltage is therefore normal under a low cranking force.

Perform testing in the prescribed order and replace any parts not performing according to specifications.

It is important to resume all tests when replacing a component.

If not specified, the probe connecting sequence is not important.

M: Male connector

F: Female connector

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-3**

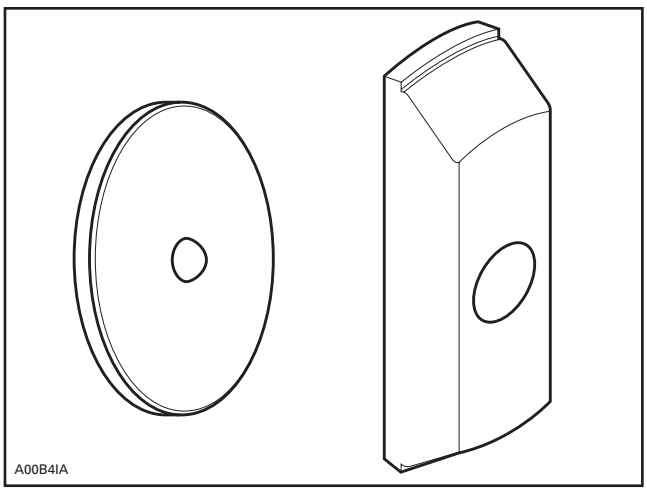
Date: September 4, 1997

SUBJECT: New Tools/Driven Pulley

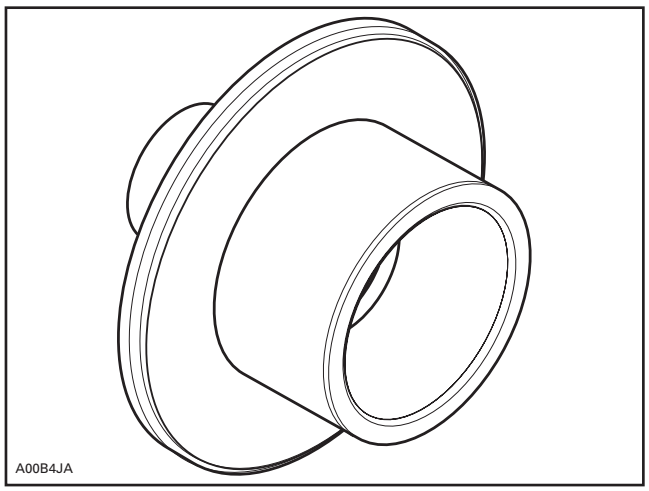
YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	ALL except TUNDRA* LT and SKANDIC* WT/WTLC/SWT	ALL	ALL

The following tools are not listed in the Tool Section of the 1998 *Ski-Doo Shop Manual.*

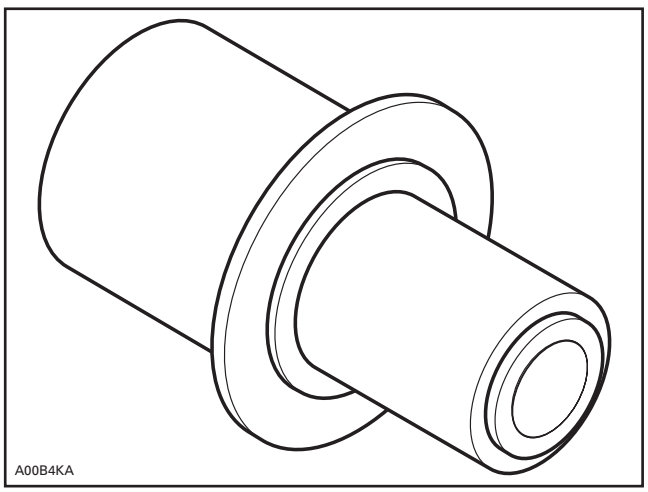
They are suggested service tools for servicing driven pulley on the above mentioned models.



P/N 529 0311 00
LARGE BUSHING EXTRACTOR

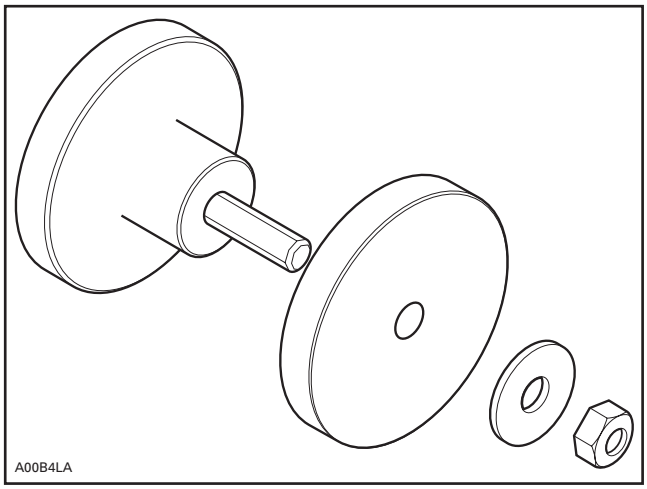


P/N 529 0312 00
LARGE BUSHING INSTALLER AND SMALL BUSHING EXTRACTOR



P/N 529 0313 00
BUSHING EXTRACTOR/INSTALLER

Refer to the *Ski-Doo Shop Manual* for proper procedure in regard to the usage of the tools.



P/N 529 0323 00
CHAINCASE UPPER SEAL PUSHER

The new tools can be ordered individually through your regular parts channel.

Please update the *1998 Ski-Doo Shop Manual, Volume 1* (P/N 484 0680 00), Section 01.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-4**

Date: October 16, 1997

SUBJECT: Drive Belt Deflection

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	MACH* Z	1294/1313	ALL
1998	MACH* Z LT MACH* Z LT (SV TRACK)	1302/1315/1308 1303/1316	ALL
1998	MACH* 1	1295/1314	ALL
1998	FORMULA* III 700	1296/1297	ALL
1998	FORMULA* III 600/LT	1298/1299	ALL
1998	GRAND TOURING* SE	1210/1219/1217	ALL
1998	GRAND TOURING* 700	1211/1318/1212	ALL

The drive belt specifications already published in the predelivery bulletins of the above mentioned models have been changed.

UPDATED SPECIFICATION

Drive Belt Adjustment	Deflection	38 mm (1-1/2 in)
	Force	11.5 kg (25.5 lb)

Please update the TECHNICAL DATA page of the corresponding predelivery bulletin.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-5**

Date: November 3, 1997

SUBJECT: Electric Starter Kit Installation Instruction Sheet

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	MACH Z	1200/1312/1290	ALL
	MACH Z R	1294/1313	ALL
	MACH Z LT	1302/1315/1308	ALL
	MACH Z LT R	1304/1317	ALL
	MACH Z LT (SV TRACK)	1303/1316	ALL

This *Service Bulletin* refers to the *Instruction Sheet* in kit (P/N 861 5037 00).

Should you have these kits in stock please discard their *Instruction Sheet* (P/N 415 1274 29) and replace it with the new *Sheet* (P/N 415 1274 57) we are supplying with this *Service Bulletin*.

For further Electric Starter Kit orders, for above mentioned models, keep using (P/N 861 5037 00); kits will be supplied **with the new *Instruction Sheet*.**

ski-doo Snowmobiles

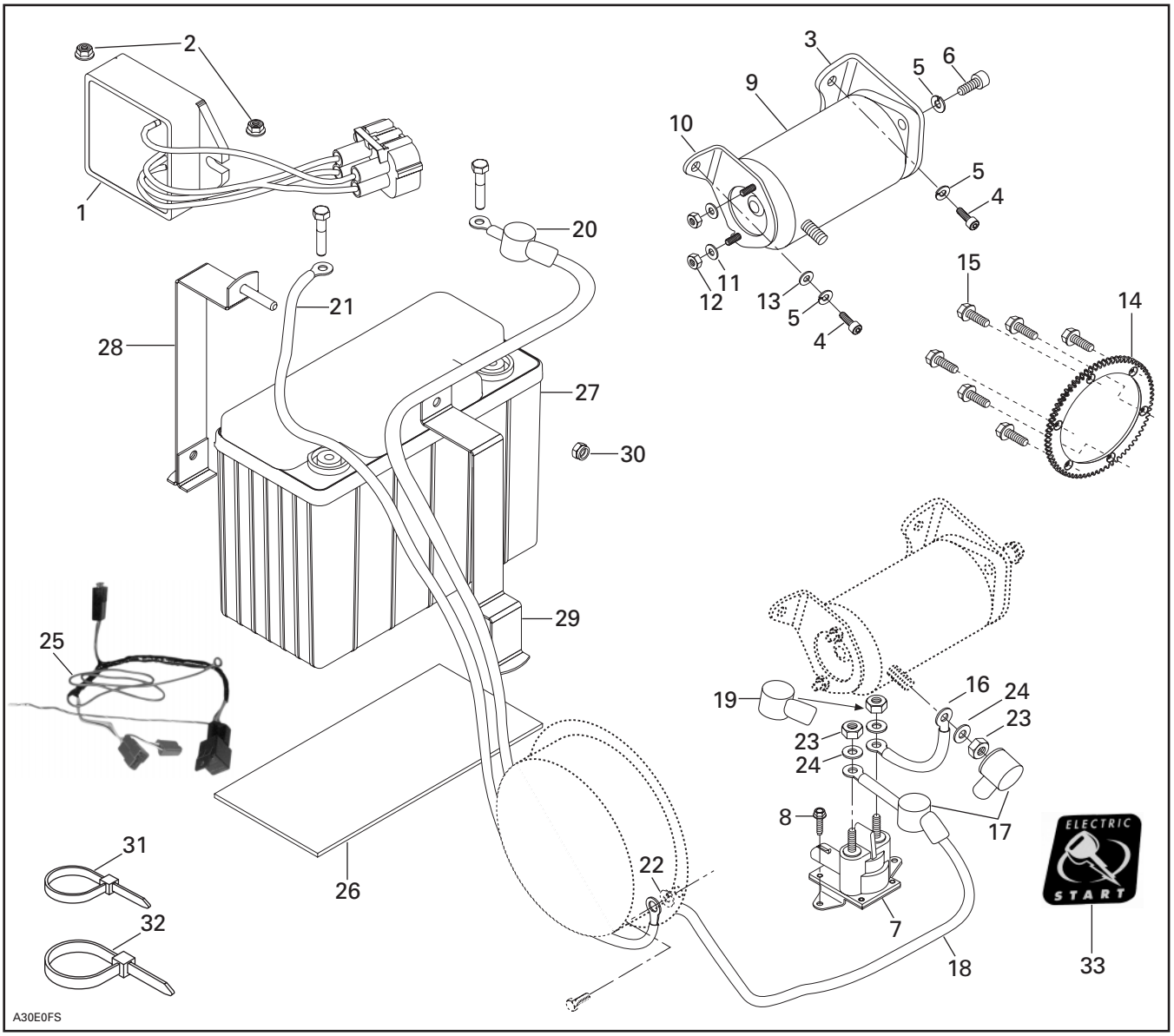
ELECTRIC STARTER KIT
(P/N 861 5037 00)

◆ WARNING

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

NOTE: Installation time is approximately **2.5** hours.

PARTS TO BE INSTALLED



Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-6**

Date: November 4, 1997

SUBJECT: Spring Chart

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1998	ALL (except utility models)	ALL	ALL

This bulletin is divided into 2 main sections.

Section 1, Spring Applications

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

Section 2, Spring Specifications

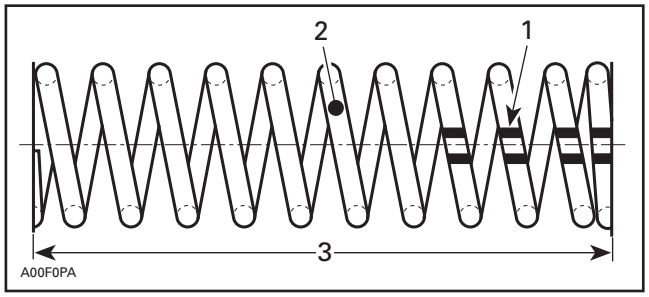
Refers to spring specifications.

The informations in this bulletin supersede all informations previously published.

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

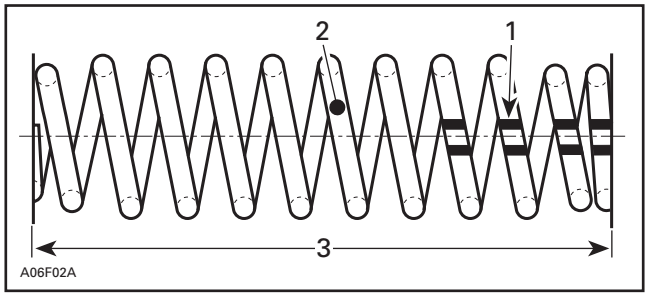
COIL SPRINGS (compression)

Type R (straight on both ends)



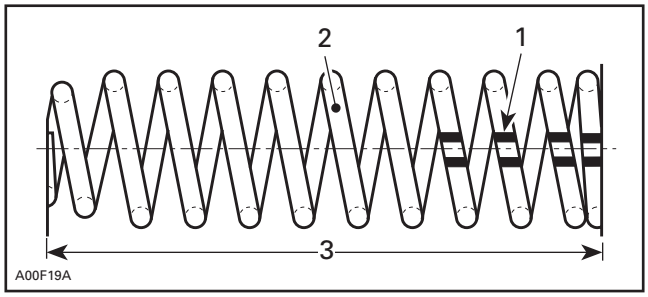
1. *Color code stripes*
2. *Wire diameter*
3. *Free length*

Type T (barrel shape on both ends)



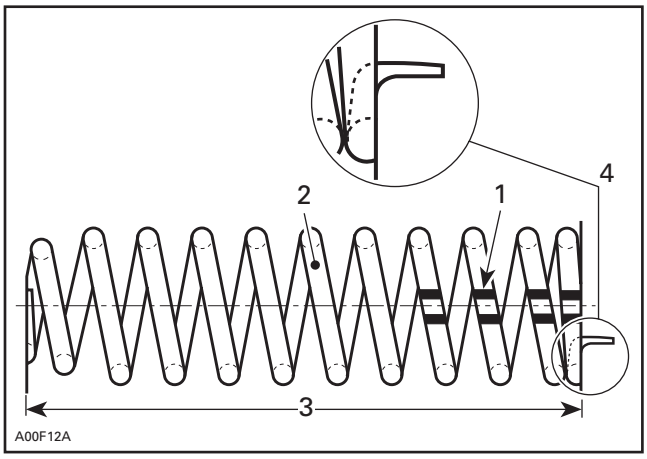
1. *Color code stripes*
2. *Wire diameter*
3. *Free length*

Type S (barrel shape on one end)



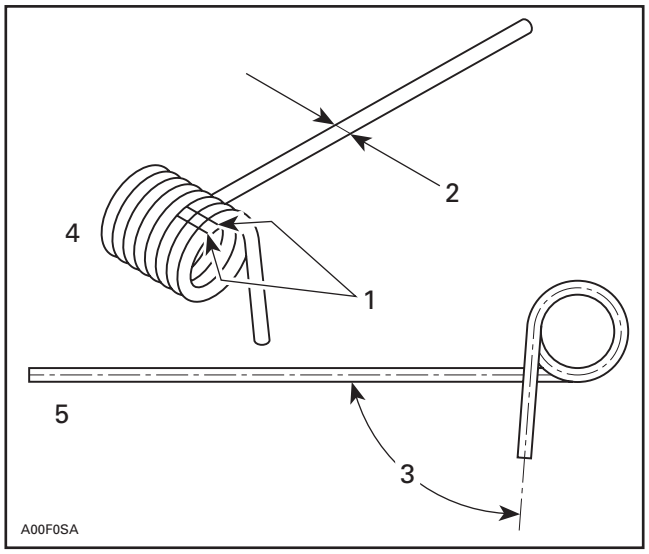
1. *Color code stripes*
2. *Wire diameter*
3. *Free length*

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



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

TORSION SPRINGS

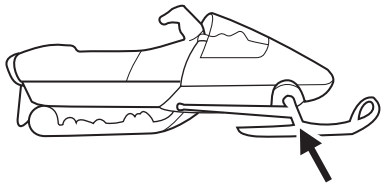


1. Color code stripes
2. Wire diameter
3. Opening angle (°)
4. Left hand (LH)
5. Right hand (RH)

SECTION 1

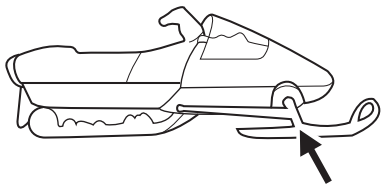
SPRING APPLICATIONS

1998 FRONT SPRINGS 1998



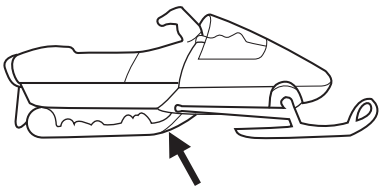
MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	Not Applicable	415 0793 00	505 0701 44
MACH Z LT	Not Applicable	415 0794 00	505 0701 46
MACH Z LT SV TRACK	Not Applicable	415 0794 00	505 0701 46
MACH 1	Not Applicable	415 0795 00	505 0701 44
FORMULA III 700	Not Applicable	415 0794 00	505 0701 46
FORMULA III 600	Not Applicable	415 0793 00	505 0701 44
FORMULA III 600 LT	Not Applicable	415 0794 00	505 0701 46
FORMULA Z 670	414 9563 00	415 0759 00	415 0397 00
FORMULA Z 583	414 9563 00	415 0355 00	415 0397 00
FORMULA 583 DE LUXE	414 9563 00	415 0355 00	415 0397 00
FORMULA 500 DE LUXE	414 9563 00	414 9761 00	415 0397 00
FORMULA 500	414 9563 00	414 9761 00	415 0397 00
FORMULA SL	414 9563 00	414 9761 00	415 0397 00
FORMULA S	414 9563 00	414 9761 00	415 0397 00
FORMULA S ELECTRIC	414 9563 00	414 9761 00	415 0397 00
MX Z 670	414 9744 00	415 0760 00	414 9761 00
MX Z 583	414 9744 00	415 0760 00	414 9761 00
MX Z 500	414 9744 00	415 0760 00	414 9761 00
MX Z 440 LC	414 9563 00	415 1081 00	415 0397 00
MX Z 440 F	414 9563 00	415 0759 00	415 0397 00
SUMMIT 670	414 9168 00	415 0837 00	415 0396 00
SUMMIT 583	414 9168 00	415 0837 00	415 0396 00
SUMMIT 500	414 9168 00	415 0837 00	415 0396 00
GRAND TOURING SE	Not Applicable	415 0797 00	505 0701 46
GRAND TOURING 700	Not Applicable	415 0796 00	505 0701 46
GRAND TOURING 583	414 9563 00	415 0758 00	415 0397 00
GRAND TOURING 500	414 9563 00	415 0758 00	415 0397 00

1998 FRONT SPRINGS 1998



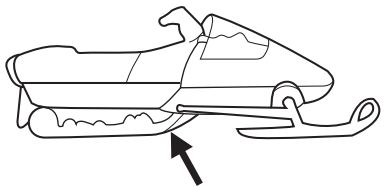
MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
TOURING SLE	414 9563 00	**415 0359 00**	415 0397 00
TOURING LE	414 9563 00	**415 0359 00**	415 0397 00
TOURING E	414 9563 00	**415 0359 00**	415 0397 00
SKANDIC 500	414 8593 00	**414 9558 00**	414 9686 00
SKANDIC 380	414 8593 00	**414 9558 00**	414 9686 00
TUNDRA II LT	Not Applicable	**414 8030 00**	415 0952 00
TUNDRA R	414 8030 00	**415 0952 00**	Not Applicable

.

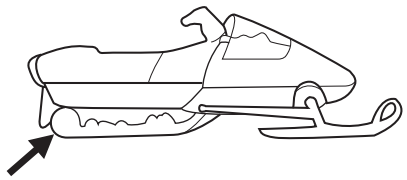


MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	415 0704 00	**415 1036 00**	415 0575 00
MACH Z LT	415 0575 00	**415 0576 00**	415 0707 00
MACH Z LT SV TRACK	415 0575 00	**415 0576 00**	415 0707 00
MACH 1	415 0704 00	**415 1036 00**	415 0575 00
FORMULA III 700	415 0704 00	**415 1036 00**	415 0575 00
FORMULA III 600	415 0704 00	**415 1036 00**	415 0575 00
FORMULA III 600 LT	415 0575 00	**415 0576 00**	415 0707 00
FORMULA Z 670	Not Applicable	**Not Applicable**	Not Applicable
FORMULA Z 583	414 9744 00	**415 0704 00**	415 1036 00
FORMULA 583 DE LUXE	414 9744 00	**415 0704 00**	415 1036 00
FORMULA 500 DE LUXE	414 8593 00	**415 0701 00**	415 0705 00
FORMULA 500	414 8593 00	**415 0701 00**	415 0705 00
FORMULA SL	414 9744 00	**415 0699 00**	414 7713 00
FORMULA S	414 9744 00	**415 0699 00**	414 7713 00
FORMULA S ELECTRIC	414 9744 00	**415 0699 00**	414 7713 00
MX Z 670	414 9744 00	**415 0703 00**	414 9761 00
MX Z 583	414 9744 00	**415 0703 00**	414 9761 00
MX Z 500	414 9744 00	**415 0703 00**	414 9761 00
MX Z 440 LC	Not Applicable	**415 0906 00** **415 0905 00**	Not Applicable
MX Z 440 F	414 8593 00	**415 0701 00**	415 0705 00
SUMMIT 670	415 0701 00	**415 0705 00**	415 0710 00
SUMMIT 583	415 0701 00	**415 0705 00**	415 0710 00
SUMMIT 500	415 0701 00	**415 0705 00**	415 0710 00
GRAND TOURING SE	415 0575 00	**415 0576 00**	415 0707 00
GRAND TOURING 700	415 0575 00	**415 0576 00**	415 0707 00
GRAND TOURING 583	414 9761 00	**415 0706 00**	415 0576 00
GRAND TOURING 500	414 9761 00	**415 0706 00**	415 0576 00
TOURING SLE	415 0701 00	**415 0705 00**	415 0710 00
TOURING LE	414 9744 00	**415 0699 00**	414 7713 00

1998 CENTER SPRINGS 1998



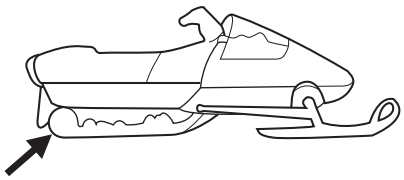
MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
TOURING E	414 9744 00	**415 0699 00**	414 7713 00
SKANDIC 500	414 9744 00	**415 0699 00**	414 7713 00
SKANDIC 380	414 9744 00	**415 0699 00**	414 7713 00
TUNDRA II LT	Not Applicable	**414 8805 00 LH 414 8804 00 RH**	Not Applicable
TUNDRA R	Not Applicable	**414 8805 00 LH 414 8804 00 RH**	Not Applicable



MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
MACH Z LT	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH
MACH Z LT SV TRACK	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH
MACH 1	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
FORMULA III 700	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
FORMULA III 600	415 0106 00 LH 414 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
FORMULA III 600 LT	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH
FORMULA Z 670	Not Applicable	415 0903/04 00 LH 415 0903/04 00 RH	415 1104 00 LH 415 1104 00 RH
FORMULA Z 583	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH
FORMULA 583 DE LUXE	414 9436 00 LH 414 9435 00 RH	415 010600 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH
FORMULA 500 DE LUXE	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH
FORMULA 500	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH
FORMULA SL	Not Applicable	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH
FORMULA S	Not Applicable	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH
FORMULA S ELECTRIC	Not Applicable	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH
MX Z 670	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH
MX Z 583	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH
MX Z 500	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH

LH= Left Hand RH=Right Hand

1998 REAR SPRINGS 1998



MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MX Z 440 LC	414 9436 00 LH 414 9435 00 RH	503 1882 00 LH 503 1881 00 RH	414 9443 00 LH 414 9442 00 RH
MX Z 440 F	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH
SUMMIT 670	Not Applicable	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH
SUMMIT 583	Not Applicable	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH
SUMMIT 500	Not Applicable	414 8663 00 LH 414 8662 00 RH	414 9436 00 LH 414 9435 00 RH
GRAND TOURING SE	414 9436 00 LH 414 9435 00 RH	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH
GRAND TOURING 700	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH	Not Applicable
GRAND TOURING 583	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
GRAND TOURING 500	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
TOURING SLE	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
TOURING LE	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
TOURING E	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
SKANDIC 500	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
SKANDIC 380	415 0106 00 LH 415 0105 00 RH	414 9443 00 LH 414 9442 00 RH	415 0608 00 LH 415 0607 00 RH
TUNDRA II LT	Not Applicable	414 8802 00 LH 414 8803 00 RH	Not Applicable
TUNDRA R	Not Applicable	414 8802 00 LH 414 8803 00 RH	Not Applicable

LH= Left Hand RH=Right Hand

SECTION 2

SPRING SPECIFICATIONS

Coil Springs Specifications 1998

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
291 000 794	R	100	215	6.65	PI/WH	BLACK
414 7713 00	R	135	272.5	8.41	BK/BK	SAFARI RED
414 7823 00	R	225	165	8.41	BK	SAFARI RED
414 7882 00	R	150	272.5	8.41	BK/YL	SAFARI RED
414 7894 00	R	135	272.5	8.41	BK/BK	AQUA BLUE
414 7977 00	R	135	272.5	8.41	BK/BK	FLAME RED
414 7978 00	R	135	272.5	8.41	BK/BK	PEARL BLUE
414 7979 00	R	135	272.5	8.41	BK/BK	VIOLET
414 8030 00	R	65	408	6.17	BL/OR	BLACK
414 8088 00	R	120	272.5	7.77	BK/OR	SAFARI RED
414 8093 00	R	160	213.1	7.77	WH	BLACK
414 8095 00	R	150 ± 5	256.8	7.92	BK	YELLOW
414 8101 00	R	125 ± 5	256.8	7.49	WH	YELLOW
414 8593 00	R	90 ± 7	239	7.14	BK/WH	YELLOW
414 8616 00	R	135	272.5	8.41	BK/BK	YELLOW
414 8690 00	R	125 ± 5	256.8	7.49	WH	SAFARI RED
414 8716 00	R	150 ± 5	256.8	7.92	WH	VIOLET
414 8778 00	R	160 ± 7	223.1	7.92	WH/WH	BLACK
414 8910 00	R	100 ± 7	260	7.14	WH/BK	SAFARI RED
414 8938 00	R	185 ± 7	213	8.41	GN/GN	YELLOW
414 8951 00	R	100	255	7.14	PI/GD	BLACK
414 9168 00	R	90 ± 7	239	7.14	RD	FIREFLY GREEN
414 9281 00	R	110	256.8	7.77	GD/BK	SAFARI RED
414 9286 00	R	100 ± 7	260	7.14	GD	RASPBERRY
414 9293 00	R	110	256.8	7.77	BK/RD	PEARL BLUE
414 9295 00	R	100 ± 7	260	7.14	RD/YL	PEARL BLUE

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

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
414 9402 00	R	140 ± 7	223	7.77	WH/GN	BLACK
414 9558 00	R	100	239	7.14	RD/GN/GN	BLACK
414 9559 00	R	125 ± 5	256.8	7.49	BK/RD	NEON GREEN
414 9560 00	R	125 ± 5	256.8	7.49	BL/RD	BLACK
414 9561 00	R	125 ± 5	256.8	7.49	BL/BL/BL	VIPER RED
414 9562 00	R	115	242	7.77	PI/BL	BLACK
414 9563 00	R	100	265	7.14	PI/WH/BL	YELLOW
414 9564 00	R	100 ± 7	260	7.14	RD/YL/BL	ROYAL VIOLET
414 9565 00	R	100 ± 7	260	7.14	BL/YL/GN	VIPER RED
414 9568 00	R	100 ± 7	260	7.14	RD/YL	NEON GREEN
414 9686 00	R	125	235	7.49	RD	NEON GREEN
414 9744 00	R	90	265	7.14	GN/OR	BLACK
414 9745 00	R	115	265	7.49	OR/WH	BLACK
414 9760 00	R	135	242	8.25	PI/GN	BLACK
414 9761 00	R	125	262	7.92	PI/YL	VIPER RED
415 0129 00	R	115	260	7.92	PI/YL	BLACK
415 0137 00	R	200	230	8.71	PI/OR/YL	BLACK
415 0138 00	R	150	264	7.77	BK/PI/WH	NEON GREEN
415 0139 00	R	150	264	7.77	PI/WH/YL	ROYAL VIOLET
415 0142 00	R	150	264	7.77	GN/OR/BL	PEARL BLUE
415 0145 00	R	150	264	7.77	BK/WH/OR	VIPER RED
415 0206 00	R	125	203.2	7.77	4 Green lines	BLACK
415 0207 00	R	150	203.2	7.92	4 Red lines	BLACK
415 0208 00	R	70	152	5.73	4 Blue lines	BLACK
415 0209 00	R	150	190.5	8.29	4 Pink lines	BLACK
415 0355 00	R	125	262	7.92	SI/GN	YELLOW
415 0356 00	R	125	235	7.49	OR	FRENCH BLUE
415 0357 00	R	125	262	7.92	SI/OR	JAY BLUE
415 0358 00	R	125	262	7.92	SI/PI	FIR GREEN
415 0359 00	R	125	262	7.92	YL	BLACK

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

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
415 0385 00	R	100	265	7.14	SI/GD	VIPER RED
415 0396 00	R	150	235	8.41	GN	BLACK
415 0397 00	R	150	258	8.71	PI	BLACK
415 0398 00	R	140	257	8.71	SI	BLACK
415 0399 00	R	150	238	8.71	SI/WH	BLACK
415 0400 00	R	130	250	8.25	SI/SI	BLACK
415 0401 00	R	215	218	9.19	OR/PI	BLACK
415 0575 00	R	160	264	8.71	RD/GD	BLACK
415 0582 00	R	115	270	7.92	GN/GD	BLACK
415 0696 00	R	300	170	9.50	YL/BK/YL	BLACK
415 0758 00	R	125	262	7.92	PI/RD/BK	FRENCH BLUE
415 0759 00	R	125	262	7.92	BL/RD/BK	YELLOW
415 0760 00	R	100	265	7.14	RD/RD/BK	YELLOW
415 0837 00	R	125	235	7.49	OR/RD/BK	YELLOW
415 0903 00	R	376	76	8.25	GD/RD/YL	BLACK
415 0905 00	R	293	45	6.17	YL/BL/YL	BLACK
415 0952 00	R	75	408	6.17	BL/BL/YL	BLACK
503 1007 00	R	65	290	6.35	BL/YL	BLACK
415 0904 00	S	359	215	10.60	WH/RD/YL	BLACK
415 0906 00	S	220	210	9.19	RD/BL/YL	BLACK
415 1104 00	S	400	215	11.10	YL/OR/YL	BLACK
414 8091 00	T	125 ± 5	274	7.92	GD	YELLOW
414 8155 00	T	135	259	7.77	BK/WH	VIOLET
414 8528 00	T	100 ± 7	279	7.92	RD	YELLOW
414 8713 00	T	125 ± 5	274	7.92	GD	SAFARI RED
414 8715 00	T	125 ± 5	274	7.92	GD	VIOLET
414 8941 00	T	112 ± 7	279.4	8.41	BK/GN	YELLOW
414 9169 00	T	100 ± 7	279	7.92	BK/WH	FIREFLY GREEN
414 9254 00	T	100 ± 7	279	7.92	WH/BK	SAFARI RED
414 9260 00	T	100 ± 7	279	7.49	BK	RASPBERRY

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

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
414 9269 00	T	110	279.4	7.77	GN/YL	SAFARI RED
414 9271 00	T	110	279.4	7.77	BK/YL	PEARL BLUE
414 9275 00	T	100 ± 7	279	7.92	RD/WH	PEARL BLUE
414 9886 00	T	100 ± 7	279	7.49	PI/PI	BLACK
414 9986 00	T	100 ± 7	279	7.49	BK/PI	SAFARI RED
415 0069 00	T	150 ± 7	272.5	8.41	BK/YL	FIREFLY GREEN
415 0070 00	T	135 ± 7	272.5	8.41	BK/BK	FIREFLY GREEN
415 0143 00	T	150	264	7.77	GN/OR/PI	CAN-AM RED
415 0575 00	T	160	264	8.71	RD/GD	BLACK
415 0576 00	T	180	260	9.52	BL/GD	BLACK
415 0699 00	T	115	265	7.49	SI/YL/YL	BLACK
415 0700 00	T	135	242	8.25	WH/YL/YL	BLACK
415 0701 00	T	115	242	7.92	GD/YL/YL	BLACK
415 0702 00	T	115	270	7.92	PI/YL/YL	BLACK
415 0703 00	T	100	264	7.49	OR/YL/YL	BLACK
415 0704 00	T	115	270	8.25	GN/YL/YL	BLACK
415 0705 00	T	135	242	8.41	BL/YL/YL	BLACK
415 0706 00	T	160	264	9.19	RD/YL/YL	BLACK
415 0707 00	T	200	263	9.52	YL/YL/YL	BLACK
415 0710 00	T	150	242	8.71	SI/RD/YL	BLACK
415 0793 00	T	85	290	7.77	RD/BL/BK	YELLOW
415 0794 00	T	85	315	8.25	RD/GN/BK	YELLOW
415 0795 00	T	85	290	7.77	GN/RD/YL	VIPER RED
415 0796 00	T	85	315	8.25	OR/RD/YL	FRENCH BLUE
415 0797 00	T	85	315	8.25	PI/YL/RD	PLATINUM
415 1036 00	T	135	264	8.25	GN/GN/YL	BLACK
503 1272 00	T	170	258	8.71	BL/GN	BLACK
503 1354 00	T	250	300	10.31	RD/OR	BLACK
505 0701 44	T	100	290	8.25	RD/BK/RD	YELLOW
505 0701 46	T	100	315	8.71	RD/RD/RD	YELLOW
415 1081 00	U	125	260	8.25	BK/RD/BK	YELLOW

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

Torsion Springs Specification 1998

P/N	WIRE DIAMETER (mm)	OPENING ANGLE ±7°	COLOR CODE	COLOR OF SPRING
414 8663 00 LH 414 8662 00 RH	10.3	85°	YL	BLACK
414 8802 00 LH 414 8803 00 RH	9.5	100°	Not Applicable	BLACK
414 8805 00 LH 414 8804 00 RH	10.3	12°	Not Applicable	BLACK
414 9436 00 LH 414 9435 00 RH	10.6	90°	WH	BLACK
414 9443 00 LH 414 9442 00 RH	11.11	90°	GN	BLACK
415 0106 00 LH 415 0105 00 RH	10.6	80°	RD	BLACK
415 0608 00 LH 415 0607 00 RH	11.11	80°	BL	BLACK
415 0694 00 LH 415 0693 00 RH	11.11	100°	OR	BLACK
486 0712 00 LH 486 0711 00 RH	10.3	135°	YL/YL	BLACK
486 0714 00 LH 486 0713 00 RH	10.3	150°	WH/WH	BLACK
503 1882 00 LH 503 1881 00 RH	11.11	100°	BL/YL	BLACK

LH=Left Hand RH=Right Hand

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

1. Voltage Regulator
2. Flanged Elastic Nut M6 (2)
3. Starter Support PTO side
4. Socket Screw M8 x 20 (3)
5. Lock Washer M8 (5)
6. Socket Screw M8 x 25 (2)
7. Starter Solenoid
8. Self-Tapping Hex. Screw (2)
9. Starter
10. Starter Support MAG Side
11. Flat Washer (2)
12. Flanged Elastic Nut M5 (2)
13. Flat Washer M8
14. Ring Gear
15. Self-Tapping Screw (6)
16. Battery Positive Cable (short)
17. Protector Cap (2)
18. Battery Positive Cable
19. Protector Cap
20. Protector Cap
21. Battery Ground Cable
22. Star Washer
23. Elastic Hex. Nut (3)
24. Flat Washer (3)
25. Starting Harness
26. Rubber Strip
27. Battery
28. Rear Steel Strip
29. Front Steel Strip
30. Flanged Elastic Nut M5
31. Locking Tie (8)
32. Locking Tie
33. Decal

INSTRUCTIONS

Battery Preparation

Prior to electric starter kit installation, battery must be charged. Refer to *Shop Manual* for proper procedure.

◆ WARNING

Never charge or boost battery while connected or installed on vehicle.

Vehicle Preparation

Close fuel shut off valve.

Remove tuned pipes, muffler, belt guard, drive belt, air intake silencer.

Loosen drive pulley retaining screw for later removal.

Voltage Regulator

Remove original regulator/rectifier, located along RH side member of frame. Keep retaining bolts. Install voltage regulator **no. 1** and secure with M6 flanged elastic nuts **no. 2** using same retaining bolts.

NOTE: Install regulator, with corner where wires come out toward engine.

Connect voltage regulator to vehicle harness making sure that single wire, disconnected from original regulator/rectifier, assures continuity. This is done by reconnecting it to other single wire from vehicle harness (RED/YELLOW male with RED/BLUE female).

Starter Solenoid

Locate solenoid positioning on metal recess just right of left front engine support. From underneath engine pull out wiring harness enough to cut tie that retains male connector and plug it in female receptacle of solenoid, leaving both threaded posts of solenoid toward front. Using already existing holes, secure solenoid **no. 7** with self-tapping hex. screws **no. 8**.

Ring Gear

Remove drive pulley. Refer to appropriate *Shop Manual* to perform drive pulley disassembly/assembly procedures and to proceed with pulley alignment.

Secure ring gear **no. 14** on inner half using self-tapping screws **no. 15**. Apply Loctite 271 (red) on screw threads.

▼ CAUTION

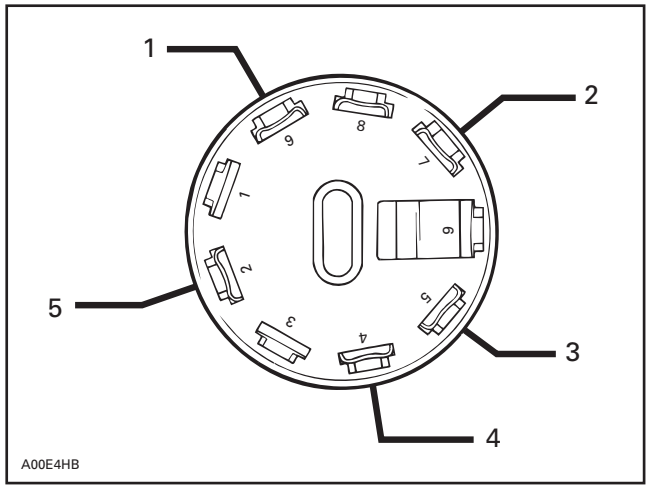
Loctite 271 (red) must be applied to safely assemble ring gear.

Torque screws in a criss-cross sequence to 27 N•m (20 lbf•ft).

Do not reinstall drive pulley at this time.

Ignition Switch

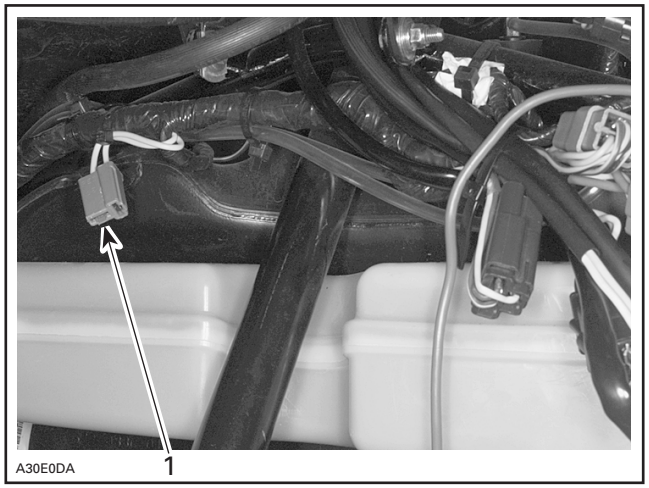
Separate connector from ignition switch and slide out RED/BLUE wire from position 7 to connect it into only available position in starting harness relay; then slide shortest wire of starting harness **no. 25** inside connector boot at position 7.



1. *RED/GREEN wire to solenoid*
2. *RED/WHITE wire with relay to battery*
3. *BLACK*
4. *Not used*
5. *BLACK/YELLOW*

Replug connector to switch and connect female connector of starting harness to power supply male connector already in vehicle harness.

Refer to following photo.



1. *Power supply male connector*

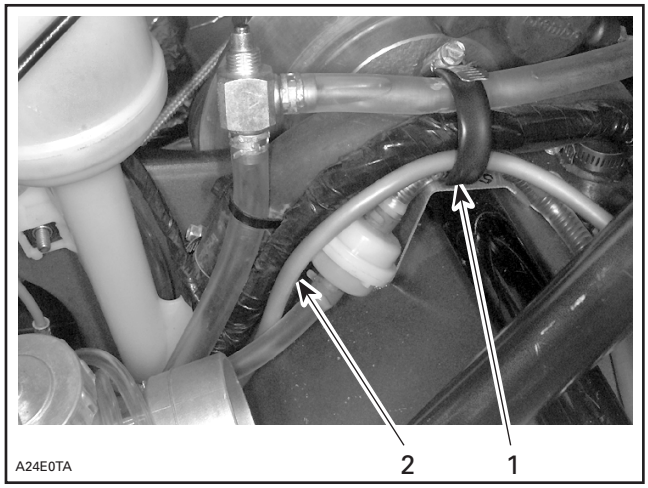
Twist starting harness, keeping just enough of the long red wire to reach battery post and secure to already existing harness with needed locking ties **no. 31**.

NOTE: Make sure not to squeeze nearby fuel tank vent tube when securing starting harness.

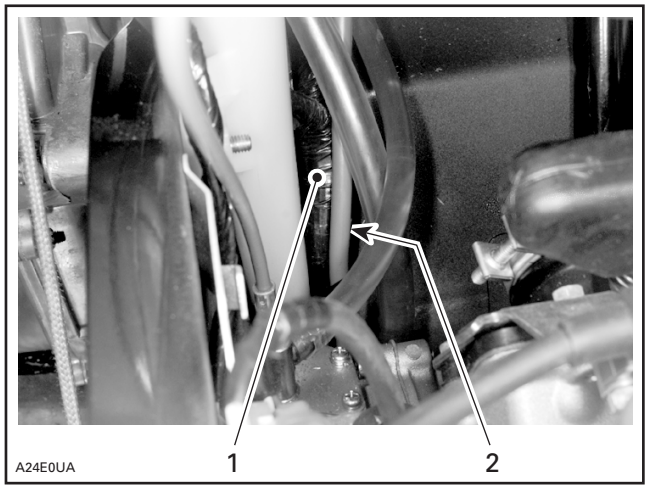
Wire/Cable Connections and Routing

Ensure that all terminals of each battery cable are straight; bend as required.

Starting from battery location, route both cables toward starter location along vehicle harness using existing large clip to start. Refer to following illustrations.



1. *Existing large clip*
2. *Battery positive cable*



ALONGSIDE HARNESS

1. *Wiring harness*
2. *Battery positive cable*

Make sure cables are pushed secured into corners and that locking ties are used where needed to protect cables from heat or vibration sources and sharp edges.

Install BLACK battery ground cable **no. 21** with star washer **no. 22** to rewind starter housing. Secure with existing rewind starter housing screw and lock washer.

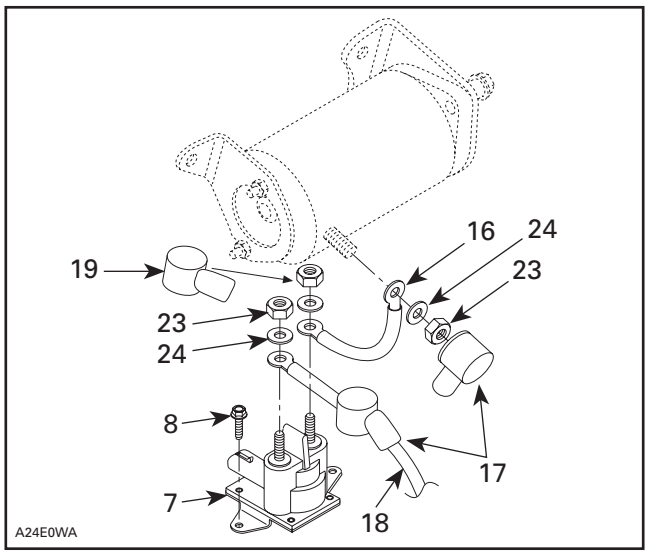
NOTE: Connect BLACK ground cable in specified order: star washer first then BLACK ground cable and original lock washer and tighten with original screw.

Continue RED positive cable routing to starter solenoid alongside inner frame then left, alongside torsion bar.

Slide protector cap **no. 17** on the RED positive battery cable **no. 18**. Install RED cable, flat washer M8 **no**. **24** onto solenoid inner threaded contact and secure with M8 nut **no. 23.** Tighten nut to 13 N•m (10 lbf•ft). Cover terminal with protector cap previously inserted.

On one end of short positive cable **no. 16**, insert protector cap **no. 19** and on starter end of same cable insert protector cap **no. 17**. Slide cable terminal onto solenoid outer threaded contact then flat washer M8 **no. 24** and again secure with M8 nut **no.23** at same torque specifications. Cover contact with protector cap.

Refer to following illustration for solenoid/starter cable connections.



Using long locking tie **no. 32** secure RED positive cable to torsion bar.

◆ WARNING

Ensure all terminals are properly crimped on wires/cables and that all connector housings are properly fastened. Keep wires away from any rotating, moving, heating, vibrating parts and sharp edges. Use proper fastening devices as required.

Electric Starter

▼ CAUTION

Apply Loctite 271 (red) on all fastener threads of starter supports.

Through opening on PTO side, start by depositing starter on floor pan.

Install starter support PTO side **no. 3** onto engine using socket screws M8 x 20 **no. 4** and lock washers **no. 5**. Tighten firmly.

Lift up and install electric starter **no. 9** on support, bottom bolts first and secure it using M8 x 25 socket screws **no. 6** and lock washers M8 **no. 5**.

Install flat washers M6 **no. 11** over nuts of starter through bolts.

Install starter support MAG side **no. 10** onto starter and secure with M5 flanged elastic nuts **no. 12**.

Secure support to engine with M8 x 20 socket screw **no. 4**, flat washer **no. 13** and lock washer **no. 5**.

Connect other end of short positive cable from solenoid onto starter contact, insert flat washer **no. 24** and secure at specified torque with M8 nut **no. 23**. Cover contact with previously inserted protector cap.

Battery

On battery seat, remove and discard clips retaining oil line and small wiring harness.

Install rear battery steel strip **no. 28** in hole provided and let small wiring harness run behind it.

Install rubber strip **no. 26** and battery **no. 27** in their location.

Install front battery steel strip **no. 29**, making sure oil line and RED positive cable pass through indentation at its bottom.

Secure both steel strips with flanged elastic nut **no. 30**.

Insert protector cap **no. 20** on RED positive battery cable and connect same cable with red starting harness wire (from ignition switch) to battery and cover post with protector cap. Connect BLACK ground cable.

◆ WARNING

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

Finalizing Assembly

Refer to the appropriate Ski-Doo *Shop Manual* for proper reinstallation procedure.

Reinstall drive pulley.

Check pulley alignment.

◆ WARNING

Drive pulley alignment must always be checked whenever pulleys have been removed, replaced or disassembled.

Reinstall remaining removed parts.

NOTE: Apply Dow Corning sealer no. 736 RTV on exhaust manifold ball joint.

Test electrical starting and ignition cut-out systems as per normal starting procedure for electric starter models.

Decal

Clean decal area with soapy water or isopropyl alcohol using a soft clean cloth and dry thoroughly.

▼ CAUTION

Do not apply isopropyl alcohol on decal.

Remove backing from decal.

Apply decal **no. 33** below ignition switch on the left side of dash.

861 5037 00

1.	515 1751 06	Voltage Regulator	Régulateur de tension
2.	228 7610 45	Flanged Elastic Nut M6 (2)	Écrou élastique à épaulement M6 (2)
3.	512 0565 00	Starter Support PTO Side	Support de démarreur côté PDM
4.	222 9820 65	Socket Screw M8 x 20 (3)	Vis à tête creuse M8 x 20 (3)
5.	224 7811 40	Lock Washer M8 (5)	Rondelle-frein M8 (5)
6.	222 9825 65	Socket Screw M8 x 25 (2)	Vis à tête creuse M8 x 25 (2)
7.	278 0005 13	Starter Solenoid	Solénoïde de démarreur
8.	732 6010 67	Self-Tapping Hex. Screw (2)	Vis autotaraudeuse à tête hexagonale (2)
9.	410 2129 00	Starter	Démarreur
10.	512 0566 00	Starter Support MAG Side	Support de démarreur côté MAG
11.	391 3017 00	Flat Washer (2)	Rondelle plate (2)
12.	228 7510 45	Flanged Elastic Nut M5 (2)	Écrou élastique à épaulement M5 (2)
13.	224 0811 71	Flat Washer M8	Rondelle plate M8
14.	417 0094 00	Ring Gear	Couronne de lancement
15.	732 6012 46	Self-Tapping Screw (6)	Vis autotaraudeuse (6)
16.	515 1751 01	Battery Positive Cable (short)	Câble positif de la batterie (court)
17.	570 0642 00	Protector Cap (2)	Capuchon de protection (2)
18.	515 1664 00	Battery Positive Cable	Câble positif de la batterie
19.	278 0000 20	Protector Cap	Capuchon de protection
20.	570 1510 00	Protector Cap	Capuchon de protection
21.	515 1570 00	Battery Ground Cable	Câble de masse de la batterie
22.	394 0019 00	Star Lock Washer	Rondelle-frein en étoile
23.	228 5610 45	Elastic Hex. Nut (3)	Écrou élastique hexagonale (3)
24.	224 0611 51	Flat Washer (3)	Rondelle plate (3)
25.	515 1735 00	Starting Harness	Faisceau de démarrage
26.	570 0703 00	Rubber Strip	Bande de caoutchouc
27.	410 3013 00	Battery	Batterie
28.	515 1751 14	Rear Steel Strip	Bande d’acier arrière
29.	515 1751 16	Front Steel Strip	Bande d’acier avant
30.	228 7510 45	Flanged Elastic Nut M5	Écrou élastique à épaulement M5
31.	414 1152 00	Locking Tie (8)	Attache (8)
32.	748 0010 01	Locking Tie	Attache
33.	418 0013 02	Decal	Autocollant

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-7**

Date: November 12, 1997

SUBJECT: A) Front Suspension Adjustment (CK3-Series)
B) Front Light Bulb (CK3-Series)

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	All CK3-Series	ALL	ALL

A) FRONT SUSPENSION ADJUSTMENT

For better handling and performance, front suspension must be set according to the type of front shock installed on the snowmobile.

Models Equipped with High Pressure Gas Shocks (HPG)

MACH* Z	1200/1312
MACH* Z R	1294/1313
MACH*1	1202/1311
MACH*1 R	1295/1314
FORMULA* 111 600	1334/1335
FORMULA* 111 600 R	1333/1332

Models Equipped with Low Pressure Gas Shock

MACH* Z LT	1302/1315
MACH* Z LT R	1304/1317
MACH* Z LT (SV Track)	1303/1316
FORMULA* 111 700	1208/1209
FORMULA* 111 700 R	1296/1297
FORMULA* 111 LT 600	1206/1207
GRAND TOURING* SE	1210/1319
GRAND TOURING* 700	1211/1318

Proceed to the adjustments with the front of the snowmobile lifted off the ground.

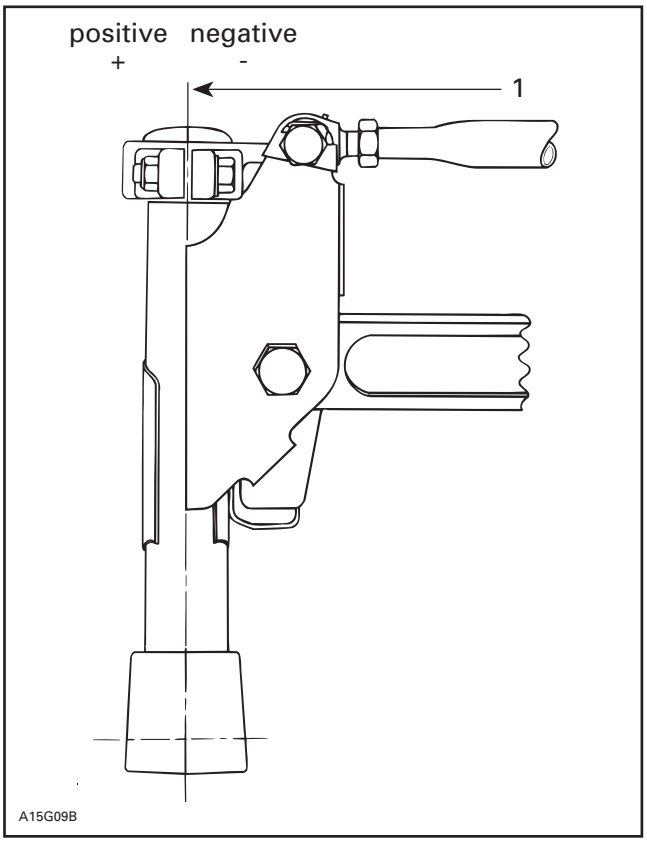
NOTE: As both types of front shock are interchangeable on all CK3-Series, it is important to verify the length of the shock before setting camber and toe-out.

Camber Adjustment

Lift up the front of the vehicle and make sure the skis are not touching the ground.

Ensure front suspension is at lowest position.

The camber is the lean of ski leg in or out at the top. If the ski leg leans in, it has a negative camber. If it leans out, it has a positive camber.



TYPICAL

1. Ski leg vertical = 0° camber

Refer to the *1998 Ski-Doo Shop Manual,* Section 8, for proper adjustment procedure.

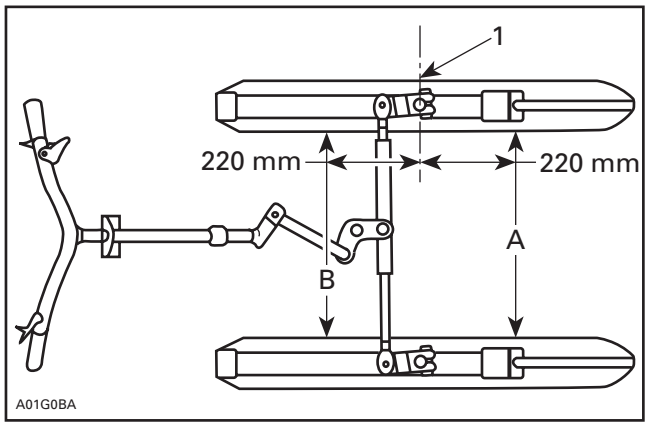
Shock Type	Maximum Shock Length	Camber
High Pressure Gas (HPG)	425 mm (16-3/4 in)	- 4.5° ± 0.5°
Low Pressure Gas	455 mm (18 in)	- 2.5° ± 0.5°

Camber is set by lengthening or shortening the upper control arm.

Toe-out Adjustment

Toe-out is accomplished by placing the back of the skis closer than the front, when viewed from the top.

The distance between skis is measured at 220 mm (8-21/32 in) from ski pivot bolt axis.



TYPICAL

1. Ski pivot bolt axis

Check for slack in steering and other front end component.

Inspect tie rods and tie rod ends and replace any bent or worn out part.

Toe-out is set by lengthening or shortening the tie rods.

The toe-out adjustment is related to the length of the front shock which is affecting the front suspension maximum travel.

Front Shock	Maximum Shock Length	Toe-out = A - B + 3, - 0 mm (+ 1/8, - 0 in)
High Pressure Gas (HPG)	425 mm (16-3/4 in)	16 mm (5/8 in)
Low pressure Gas	455 mm (18 in)	12 mm (1/2 in)

Refer to *1998 Ski-Doo Shop Manual, Section 8,* for complete front suspension alignment procedure.

B) FRONT LIGHT BULB

The front light bulb used on CK3-Series is not interchangeable with other 1998 Models.

The replacement light bulb is available under P/N 410 5044 01.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-8**

Date: November 24, 1997

SUBJECT: Ski-Doo Paint Codes

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1991 to 1998	All	All	All

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

It is divided in 4 sections:

– 1997 — 1998 Ski-Doo paint codes.

– 1991 to 1996 Ski-Doo hood paint codes.

– Corresponding paint codes: List all Ski-Doo equivalents paint codes with B.A.S.F., P.P.G. and spray can.

– New Ski-Doo paint codes.

Refer to *Service bulletin 95-14* for paint codes prior to 1991.

1998 SKI-DOO PAINT CODES

DESCRIPTION	MODEL NUMBER	HOOD PAINT CODE	FRAME PAINT CODE	CYLINDER HEAD/COVER PAINTCODE	SUSPENSION COMPONENT PAINT CODE		
					WHEEL	SWING ARM	SPRING
Tundra R	3268/3269	B152	B160	N.A.	AL	N.A.	B160
Tundra II LT	3270/3271	B152	B160	N.A.	AL	N.A.	B160
Skandic 380	1240/1241/ 1242	B188	AL	N.A.	B160	B160	B160
Skandic 500	1237/1238/ 1239	B188	AL	N.A.	B160	B160	B160
Skandic WT	1286/1287	B188 W	B160	N.A.	AL	N.A.	B160
Skandic WT LC	1284/1285	B188 W	B160	B190 R	AL	N.A.	B160
Skandic SWT	1288/1289	B188 W	B160	N.A.	AL	N.A.	B160
Touring E	1234/1236	B189	A	N.A.	B160	B160	B160
Touring LE	1232/1233 1305	B189	AL	N.A.	B160	B160	B160
Touring SLE	1229/1230/ 1231	B189	AL	N.A.	B160	B160	B160
Formula S	1226/1227	B176	AL	N.A.	B176	B160	B176
Formula SL	1224/1225	B176	B160	N.A.	B176	B160	B176
Grand Touring 500	1218/1219/ 1220	B179	B184	B190 R	B186	B184	B186
Grand Touring 583	1221/1222/ 1223	B179	B184	B176 R	B186	B184	B186
Grand Touring 700	1211/1318/ 1212	B179	B184	B168 R	B186	B184	B186
Grand Touring SE	1210/1319/ 1217	B167	B184	B168 R	B188	B184	B188
Summit 500	1256/1257/ 1258	B179	B160	B190 R	B190	B160	B190
Summit 583	1259/1260	B179	B160	B176 R	B190	B160	B190
Summit 670	1261/1262/ 1263	B179	B160	B168 R	B190	B160	B190
Summit x 670	1307/1310	B179	B160	B168 R	B190	B160	B190
MX Z 440	1264/1265/ 1266	B190	B190	N.A.	B190	B190	B190
MX Z x 440 LC	1269/1270/ 1271	B190	AL	B190 R	B190	B190	B190
MX Z 500	1272/1273/ 1274	B190	B190	B152 R	B190	B190	B190

DESCRIPTION	MODEL NUMBER	HOOD PAINT CODE	FRAME PAINT CODE	CYLINDER HEAD/COVER PAINTCODE	SUSPENSION COMPONENT PAINT CODE		
					WHEEL	SWING ARM	SPRING
MX Z 583	1275/1276/ 1277	B190	B190	B176 R	B190	B190	B190
MX Z 670	1278/1279/ 1280	B190	B190	B168 R	B190	B190	B190
Formula III 600	1255/1334/ 1335	B175	B183	B155 R	B190	B183	B190
Formula III 600 LT	1206/1207	B175	B183	B155 R	B190	B183	B190
Formula III 600 (R)	1332/1333	B175	B183	B155 R	B190	B183	B190
Formula III 700	1208/1209	B175	B183	B168 R	B190	B183	B190
Formula III 700 (R)	1296/1297	B175	B183	B168 R	B190	B183	B190
Formula S Electric	1228	B176	AL	N.A.	B176	B160	B176
Formula 500	1243/1244/ 1245	B176	B176	B152 R	B176	B176	B176
Formula 500 De Luxe	1246/1247/ 1248	B176	B176	B152 R	B176	B176	B176
Formula 583 De Luxe	1249/1250	B175	B183	B176 R	B190	B183	B190
Formula Z 583	1251/1252	B175	B183	B176 R	B190	B183	B190
Formula Z 670	1253/1254/ 1306	B175	B183	B168 R	B190	B183	B190
Mach 1	1202/1311/ 1203	B160	B160	B168 R	B176	B160	B176
Mach 1 (R)	1295/1314	B160	B160	B168 R	B176	B160	B176
Mach Z	1200/1312/ 1290	B160	B160	B181 R	B190	B160	B190
Mach Z (R)	1294/1313	B160	B160	B181 R	B190	B160	B190
Mach Z LT	1302/1315/ 1308	B160	B160	B181 R	B190	B160	B190
Mach Z LT (SV track)	1303/1316	B160	B160	B181 R	B190	B160	B190
Mach Z LT (R)	1304/1317	B160	B160	B181 R	B190	B160	B190
Mini Z	1213	B190	B190	N.A.	B190	B190	N.A.

AL: Aluminum (no paint).

N.A.: Not Available.

1997 SKI-DOO PAINT CODES

DESCRIPTION	MODEL NUMBER	HOOD PAINT CODE	FRAME PAINT CODE	CYLINDER HEAD/COVER PAINT CODE	SUSPENSION COMPONENT PAINT CODE		
					WHEEL	SWING ARM	SPRING
Tundra II LT	3266	B152	B160	N.A.	AL	N.A.	B160
Tundra II LT (Europe)	3267	B152	B160	N.A.	AL	N.A.	B160
Skandic 380 (Canada)	1120	B160	AL	N.A.	B160	B160	B160
Skandic 380 (U.S.)	1121	B160	AL	N.A.	B160	B160	B160
Skandic 380 (Europe)	1122	B160	AL	N.A.	B160	B160	B160
Skandic 500 (Canada)	1117	B160	AL	N.A.	B160	B160	B160
Skandic 500 (U.S.)	1118	B160	AL	N.A.	B160	B160	B160
Skandic 500 (Europe)	1119	B160	AL	N.A.	B160	B160	B160
Skandic WT	1134	B160	B160	N.A.	AL	N.A.	B160
Skandic WT (U.S.)	1135	B160	B160	N.A.	AL	N.A.	B160
Skandic WT LC	1132	B160	B160	N.A.	AL	N.A.	B160
Skandic WT LC (U.S.)	1133	B160	B160	N.A.	AL	N.A.	B160
Skandic SWT	1136	B160	B160	N.A.	AL	N.A.	B160
Skandic SWT (U.S.)	1137	B160	B160	N.A.	AL	N.A.	B160
Touring E (Canada)	1115	B177	AL	N.A.	B160	B160	B160
Touring ELT (Canada)	1116	B177	AL	N.A.	B160	B160	B160
Touring ELT (Europe)	1186	B177	AL	N.A.	B160	B160	B160
Touring LE (Canada)	1112	B177	AL	N.A.	B160	B160	B160
Touring LE (U.S.)	1113	B177	AL	N.A.	B160	B160	B160
Touring LE (Europe)	1114	B177	AL	N.A.	B160	B160	B160
Touring SLE (Canada)	1110	B177	AL	N.A.	B160	B160	B160
Touring SLE (U.S.)	1111	B177	AL	N.A.	B160	B160	B160
Formula S (Canada)	1108	B176	AL	N.A.	B176	B160	B176
Formula S (Europe)	1109	B176	AL	N.A.	B176	B160	B176
Formula SL (Canada)	1106	B176	B160	N.A.	B176	B160	B176
Formula SL (U.S.)	1107	B176	B160	N.A.	B176	B160	B176
Grand Touring 500 (Canada)	1123	B177	B160	B152	B185	B160	B185
Grand Touring 500 (U.S.)	1124	B177	B160	B152	B185	B160	B185
Grand Touring 500 (Europe)	1125	B177	B160	B152	B185	B160	B185

DESCRIPTION	MODEL NUMBER	HOOD PAINT CODE	FRAME PAINT CODE	CYLINDER HEAD/COVER PAINT CODE	SUSPENSION COMPONENT PAINT CODE		
					WHEEL	SWING ARM	SPRING
Grand Touring 583 (Canada)	1126	B177	B160	B176	B185	B160	B185
Grand Touring 583 (U.S.)	1127	B177	B160	B176	B185	B160	B185
Grand Touring 583 (Europe)	1128	B177	B160	B176	B185	B160	B185
Grand Touring SE (Canada)	1129	B167	B184	B168	B182	B184	B182
Grand Touring SE (U.S.)	1130	B167	B184	B168	B182	B184	B182
Grand Touring SE (Europe)	1131	B167	B184	B168	B182	B184	B182
Summit 500 (Canada)	1157	B179	B160	B152	B186	B160	B186
Summit 500 (U.S.)	1158	B179	B160	B152	B186	B160	B186
Summit 583 (Canada)	1159	B179	B160	B176	B186	B160	B186
Summit 583 (U.S.)	1160	B179	B160	B176	B186	B160	B186
Summit 583 (Europe)	1161	B179	B160	B176	B186	B160	B186
Summit 670 (Canada)	1162	B179	B160	B168	B186	B160	B186
Summit 670 (U.S.)	1163	B179	B160	B168	B186	B160	B186
MX Z 440 (Canada)	1171	B152	B152	N.A.	B152	B152	B152
MX Z 440 (U.S.)	1172	B152	B152	N.A.	B152	B152	B152
MX Z 440 (Europe)	1173	B152	B152	N.A.	B152	B152	B152
MX Z 440 LC (Canada)	1168	B152	B152	B152	B152	B152	B152
MX Z 440 LC (U.S.)	1169	B152	B152	B152	B152	B152	B152
MX Z 440 LC (Europe)	1170	B152	B152	B152	B152	B152	B152
MX Z 583 (Canada)	1174	B152	B152	B176	B152	B152	B152
MX Z 583 (Europe)	1175	B152	B152	B176	B152	B152	B152
MX Z 583 (U.S.)	1176	B152	B152	B176	B152	B152	B152
MX Z 670 (Canada)	1193	B152	B152	B168	B152	B152	B152
MX Z 670 (U.S.)	1194	B152	B152	B168	B152	B152	B152
MX Z 670 (Europe)	1195	B152	B152	B168	B152	B152	B152
Formula III (Canada)	1148	B175	B183	B155	B176	B183	B176
Formula III (U.S.)	1149	B175	B183	B155	B176	B183	B176
Formula III (Europe)	1150	B175	B183	B155	B176	B183	B176
Formula III LT (Canada)	1151	B175	B183	B155	B176	B183	B176
Formula III LT (U.S.)	1152	B175	B183	B155	B176	B183	B176

DESCRIPTION	MODEL NUMBER	HOOD PAINT CODE	FRAME PAINT CODE	CYLINDER HEAD/COVER PAINT CODE	SUSPENSION COMPONENT PAINT CODE		
					WHEEL	SWING ARM	SPRING
Formula III LT (Europe)	1153	B175	B183	B155	B176	B183	B176
Formula 500 (Canada)	1138	B176	B176	B152	B176	B176	B176
Formula 500 (U.S.)	1139	B176	B176	B152	B176	B176	B176
Formula 500 (Europe)	1140	B176	B176	B152	B176	B176	B176
Formula 500 De Luxe (Canada)	1191	B176	B176	B152	B176	B176	B176
Formula 500 De Luxe (U.S.)	1192	B176	B176	B152	B176	B176	B176
Formula 583 (Canada)	1141	B176	B160	B176	B176	B160	B176
Formula 583 (U.S.)	1142	B176	B160	B176	B176	B160	B176
Formula Z (Canada)	1145	B175	B183	B176	B176	B183	B176
Formula Z (U.S.)	1146	B175	B183	B176	B176	B183	B176
Mach 1 (Canada)	1177	B160	B160	B168	B152	B160	B152
Mach 1 (U.S.)	1178	B160	B160	B168	B152	B160	B152
Mach 1 (Europe)	1179	B160	B160	B168	B152	B160	B152
Mach Z (Canada)	1180	B160	B160	B181	B152	B160	B152
Mach Z (U.S.)	1181	B160	B160	B181	B152	B160	B152
Mach Z (Europe)	1182	B160	B160	B181	B152	B160	B152
Mach Z LT (Canada)	1183	B160	B160	B181	B152	B160	B152
Mach Z LT (U.S.)	1184	B160	B160	B181	B152	B160	B152
Mach Z LT (Europe)	1185	B160	B160	B181	B152	B160	B152

AL: Aluminum (no paint).

N.A.: Not Available.

HOOD PAINT CODES

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1996		
Élan	3053	B-160
Tundra II LT	3264	B-152
Tundra II LT (Europe)	3265	B-152
Skandic 380 (Canada)	1534	B-160
Skandic 380 (U.S.)	1535	B-160
Skandic 380 (Europe)	1536	B-160
Skandic 500 (Canada)	1531	B-160
Skandic 500 (U.S.)	1532	B-160
Skandic 500 (Europe)	1533	B-160
Skandic WT	1537	B-160
Skandic WT (U.S.)	1539	B-160
Touring E (Canada)	1530	B-177A
Touring ELT 2 (Canada)	1542	B-177A
Touring LE (Canada)	1527	B-177A
Touring LE (U.S.)	1528	B-177A
Touring LE (Europe)	1529	B-177A
Touring SLE (Canada)	1524	B-177A
Touring SLE (U.S.)	1525	B-177A
Formula S (Canada)	1523	B-176
Formula S (Europe)	1541	B-176
Formula SL (Canada)	1521	B-176
Formula SL (U.S.)	1522	B-176
Grand Touring 500 (Canada)	1067	B-177
Grand Touring 500 (U.S.)	1068	B-177
Grand Touring 500 (Europe)	1069	B-177
Grand Touring 580 (Canada)	1070	B-177
Grand Touring 580 (U.S.)	1071	B-177
Grand Touring 580 (Europe)	1072	B-177
Grand Touring SE (Canada)	1073	B-177
Grand Touring SE (U.S.)	1074	B-177
Grand Touring SE (Europe)	1075	B-177
Summit 500 (Canada)	1058	B-169
Summit 500 (U.S.)	1059	B-169
Summit 583 (Canada)	1064	B-169
Summit 583 (U.S.)	1065	B-169

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1996		
Summit 583 (Europe)	1066	B-169
Summit 670 (Canada)	1061	B-169
Summit 670 (U.S.)	1062	B-169
Summit 670 (Europe)	1063	B-169
MX Z 440 (Canada)	1051	B-152
MX Z 440 (U.S.)	1052	B-152
MX Z 440 (Europe)	1053	B-152
MX Z 583 (Canada)	1094	B-152
MX Z 583 (Europe)	1095	B-152
MX Z 583 (U.S.)	1096	B-152
MX Z 670 (Canada)	1187	B-152
MX Z 670 (U.S.)	1188	B-152
Formula III (Canada)	1076	B-175
Formula III (U.S.)	1077	B-175
Formula III (Europe)	1093	B-175
Formula III LT (Canada)	1100	B-175
Formula III LT (U.S.)	1101	B-175
Formula III LT (Europe)	1102	B-175
Formula SLS (Canada)	1049	B-176
Formula SLS (U.S.)	1050	B-176
Formula SLS (Europe)	1097	B-176
Formula STX (Canada)	1054	B-176
Formula STX (U.S.)	1055	B-176
Formula STX LT (2) (Canada)	1056	B-176
Formula STX LT (2) (U.S.)	1057	B-176
Formula Z (Canada)	1090	B-175
Formula Z (U.S.)	1091	B-175
Formula Z (Europe)	1092	B-175
Formula SS (Canada)	1078	B-175
Formula SS (U.S.)	1079	B-175
Mach 1 (Canada)	1081	B-160
Mach 1 (U.S.)	1082	B-160
Mach 1 (Europe)	1083	B-160
Mach Z (Canada)	1084	B-160
Mach Z (U.S.)	1085	B-160
Mach Z (Europe)	1086	B-160
Mach Z LT (Canada)	1087	B-160
Mach Z LT (U.S.)	1088	B-160
Mach Z LT (Europe)	1089	B-160

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1995		
Élan	3052	B-160
Alpine II	3357	B-152
Tundra II LT	3262	B-152
Tundra II LT (Europe)	3263	B-152
Skandic 380 (Canada)	1505	B-160
Skandic 380 (Europe)	1507	B-160
Skandic 380 (U.S.)	1518	B-160
Skandic 500 (Canada)	1504	B-160
Skandic 500 (Europe)	1508	B-160
Skandic 500 (U.S.)	1517	B-160
Skandic WT	1515	B-160
Skandic Mountain SP	1516	B-160
Touring E (Canada)	1503	B-172
Touring LE (Canada)	1502	B-162
Touring LE (Europe)	1510	B-162
Touring LE (U.S.)	1519	B-162
Touring SLE (Canada)	1501	B-162
Touring SLE (U.S.)	1511	B-162
Touring SLE (Europe)	1512	B-162
Formula S (Canada)	1520	B-145
Formula SL (Canada)	1500	B-145
Formula SL (U.S.)	1513	B-145
Grand Touring 470 (Canada)	1022	B-163
Grand Touring 470 (U.S.)	1023	B-163
Grand Touring 470 (Europe)	1046	B-163
Grand Touring 580 (Canada)	1024	B-163
Grand Touring 580 (U.S.)	1025	B-163
Grand Touring 580 (Europe)	1026	B-163
Grand Touring SE 670 (Canada)	1027	B-163
Grand Touring SE 670 (U.S.)	1028	B-167
Grand Touring SE 670 (Europe)	1029	B-167
Summit 583 (Canada)	1013	B-169
Summit 583 (U.S.)	1014	B-169
Summit 583 (Europe)	1015	B-169
Summit 670 1st series (Canada)	3838	B-169

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1995		
Summit 670 1st series (U.S.)	3839	B-169
Summit 670 2nd series (Canada)	1016	B-169
Summit 670 2nd series (U.S.)	1017	B-169
Summit 670 2nd series (Europe)	1018	B-169
MX (Canada)	1000	B-152
MX (U.S.)	1001	B-152
MX Z (Canada)	1035	B-152
MX Z (U.S.)	1036	B-152
MX Z (Europe)	1037	B-152
Formula STX (Canada)	1003	B-145
Formula STX (U.S.)	1004	B-145
Formula STX LT (2) (Canada)	1007	B-145
Formula STX LT (2) (U.S.)	1008	B-145
Formula Z (Canada)	1030	B-145
Formula Z (U.S.)	1031	B-145
Formula Z (Europe)	1032	B-145
Formula SS (Canada)	1033	B-145
Formula SS (U.S.)	1034	B-145
Formula SS (Europe)	1047	B-145
Mach 1 670 (Canada)	1043	B-160
Mach 1 670 (U.S.)	1044	B-160
Mach 1 (Europe)	1045	B-160
Formula III (Canada)	1038	B-175
Formula III (U.S.)	1039	B-175
Mach Z (Canada)	1040	B-160
Mach Z (U.S.)	1041	B-160
Mach Z (Europe)	1042	B-160

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1994		
Élan	3051	B-160
Tundra II	3258	B-152
Tundra II LT	3259	B-152
Alpine II	3356	B-152
Safari L	3682	B-172
Safari DL	3683	B-172
Safari DL (Europe)	3694	B-172
Safari Rally E	3689	B-172
Skandic II 377	3685	B-160
Skandic II 377 R	3686	B-160
Skandic II 377 R (Europe)	3690	B-160
Skandic II 503 R	3687	B-160
Skandic II 503 R (Europe)	3691	B-160
Skandic II 503 R SLT	3688	B-160
Skandic II 503 R SLT (Europe)	3692	B-160
Formula MX (Canada)	3868	B-152
Formula MX (U.S.)	3883	B-152
Formula MX (Europe)	3885	B-152
Formula MX Z (Canada)	3870	B-152
Formula MX Z (U.S.)	3886	B-152
Summit 470 (Canada)	3871	B-169
Summit 470 (U.S.)	3888	B-169
Summit 470 (2) (Canada)	3865	B-169
Summit 470 (2) (U.S.)	3887	B-169
Summit 583 (2) (Canada)	3881	B-169
Summit 583 (2) (U.S.)	3882	B-169
Summit 583 (Canada)	3876	B-169
Summit 583 (U.S.)	3891	B-169
Summit 583 (2) (Europe)	3890	B-169
Formula STX (Canada)	3873	B-145
Formula STX (U.S.)	3893	B-145
Formula STX (Europe)	3892	B-145
Formula STX (2) (Canada)	3874	B-145
Formula STX (2) (U.S.)	3894	B-145
Grand Touring	3867	B-163
Grand Touring (Europe)	3879	B-163
Grand Touring XTC	3864	B-163

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1994		
Grand Touring XTC (Europe)	3878	B-163
Grand Touring SE	3866	B-167
Formula ST (Canada)	3872	B-145
Formula ST (U.S.)	3889	B-145
Formula Z (Canada)	3875	B-145
Formula Z (U.S.)	3897	B-145
Formula Z (Europe)	3896	B-145
Mach 1	3863	B-160
Mach 1 (Europe)	3880	B-160
Mach Z (Canada)	3877	B-160
Mach Z (Europe)	3898	B-160
Mach Z (U.S.)	3899	B-160

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1993		
Élan	3050	B-160
Tundra	3256	B-152
Tundra LT	3257	B-152
Alpine II	3355	B-136
Safari L	3670	B-162
Safari DL	3671	B-162
Safari 503 Rally	3672	B-162
Skandic II 377	3673	B-160
Skandic II 377 R	3674	B-160
Skandic 503 R	3675	B-160
Skandic 503 R SLT	3676	B-160
Skandic 503 R SLT (Europe)	3678	B-160
Skandic 503 R (Europe)	3679	B-160
Skandic 377 R (Europe)	3680	B-160
Safari DL (Europe)	3681	B-162
Formula MX	3791	B-154
Formula MX XTC R	3792	B-154
Formula Plus	3793	B-145
Formula Plus E	3794	B-145
Formula Plus XTC	3795	B-145
Grand Touring	3796	B-163
Formula Mach 1	3797	B-160
Formula Mach 1 XTC	3798	B-160
Formula Plus EFI	3799	B-145

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1993		
Formula MX Z	3844	B-152
Formula Mach Z	3845	B-160
Formula MX (2)	3846	B-154
Formula MX ZA	3847	B-152
Formula Mach ZA	3848	B-160
Formula Plus X	3849	B-145
Formula Plus (2)	3850	B-145
Formula Mach (2)	3852	B-160
Formula MX XTC R (Europe)	3854	B-154
Formula Plus (Europe)	3855	B-145
Formula Plus XTC (Europe)	3856	B-145
Grand Touring (Europe)	3857	B-163
Formula Plus EFI (Europe)	3858	B-145
Formula Mach 1 (Europe)	3859	B-160
Formula Mach 1 XTC (Europe)	3860	B-160
Formula MX Z (Europe)	3861	B-152
Formula Mach Z (Europe)	3862	B-160

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1992		
Élan	3049	B-106
Safari LCE	3658	B-146
Safari GLX	3659	B-158
Safari L	3662	B-153
Safari LE	3663	B-161
Skandic II 377	3669	B-160
Skandic II 377R	3665	B-160
Scout	3668	B-121
Formula MX	3775	B-154
Formula Plus	3777	B-145
Formula Plus E	3778	B-145
Formula Plus X	3790	B-145
Formula Plus XTC	3779	B-145
Formula Plus XTC E	3780	B-145
Formula Mach 1	3781	B-160
Formula Mach 1 X	3789	B-160

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1992		
Formula Mach 1 XTC	3782	B-160
Formula Mach 1 XTC (2)	3783	B-160
Formula MX XTC R	3788	B-154

DESCRIPTION	MODEL NUMBER	BOMBARDIER HOOD PAINT CODE
1991		
Élan	3048	B-106
Alpine II	3352	B-136
Safari L	3650	B-152
Safari LE	3651	B-155
Safari LX	3652	B-156
Safari LXE	3653	B-156
Safari GLX	3654	B-158
Safari LCE	3656	B-146
Formula MX	3755	B-154
Formula MX E	3756	B-154
Formula MX XTC	3757	B-154
Formula MX XTC E	3758	B-154
Formula MX XTC SS/SR	3769	B-154
Formula MX XTC E SS/SR	3770	B-154
Formula MX X	3766	B-154
Formula Plus	3759	B-145
Formula Plus E	3760	B-145
Formula Plus XTC	3761	B-145
Formula Plus XTC E	3762	B-145
Formula Plus XTC SS/SR	3771	B-145
Formula Plus XTC E SS/SR	3772	B-145
Formula Plus X	3767	B-145
Formula Mach 1	3763	B-146
Formula Mach 1 XTC	3764	B-146
Formula Mach 1 XTC SS/SR	3773	B-146
Formula Mach 1 X	3768	B-146

CORRESPONDING PAINT CODES

BOMBARDIER		B.A.S.F. R-M	PPG	SPRAY CAN
B101	CAN-AM RED	N.A.	DCC 69917	N.A.
B102	SKI-DOO YELLOW 80	RM 79044	DCC 88208	413 4055 00
B103	PERFORMANCE ORANGE	RM 79046	DCC 69918	N.A.
B104	ICE ORANGE	RM 87764	DCC 69919	N.A.
B105	MIDNIGHT BLUE	RM 85003	DCC 17876	413 4033 00
B106	EBONY BLACK	RM 84976	DCC 9553	413 4026 00
B108	M-S ORANGE 81	RM 85363	DCC 69920	413 4035 00
B109	SAFARI RED	RM 84977 ①	DCC 78185 ②	N.A.
B111	SILVER	N.A.	DBU 38261	413 4060 00
B114	POLAR WHITE	RM 86001	DCC 98197	N.A.
B121	SKI-DOO YELLOW 84	RM 84978	DCC 88209	413 4078 00
B122	SPECIAL WHITE	N.A.	DCC 98198	N.A.
B123	SILVER GRAY	RM 84979	DBU 38260 ②	413 4040 00
B136	SUNSET ORANGE	RM 84980	DCC 69921	N.A.
B137	BLUE STRATOSPHERE	RM 84981	DBU 17877	N.A.
B142	MAPLE RED	RM 84982	DBU 59965 ②	N.A.
B144	GUNMETAL GRAY	RM 84983	DBU 38257	413 4092 00
B145	METALLIC RED	RM 84066 ①	DBU 78186 ①	413 4084 00
B146	METALLIC BLACK	RM 84984	DBU 9552 ②	413 4085 00
B147	DARK GRAY	RM 84985	DBU 38258	N.A.
B148	SAND GRAY	RM 84986	DBU 38259	413 4093 00
B151	WILD BERRIES	RM 84987	DBU 78187 ① ②	N.A.
B152C B152 B152F	SUNFLOWER YELLOW (HOOD) SUNFLOWER YELLOW (WHEEL) SUNFLOWER YELLOW (FRAME)	RM 84988-0 RM 84988-7 DFM 84988	88255 N.A. N.A.	413 4087 00 N.A. N.A.
B153	SNOW WHITE	RM 80470	DBU 98199	
B154	PEARL WHITE	N.A.	DBU 98200 ① ②	413 4088 00
B155	MAGENTA	RM 85000	59817	N.A.
B156	MEDITERRANEAN BLUE	RM 79810	DBU 17878 ①	N.A.
B158	MULBERRY	RM 79888	DBU 59966	N.A.
B160	DEEP BLACK (HOOD) DEEP BLACK (FRAME)	RM 85366 N.A.	DBU 9554 N.A.	413 4091 00 N.A.
B161	QUARTZ PINK	RM 85176 ①	DBU 78188 ① ②	N.A.
B162	PEACOCK BLUE	RM 21009 ①	DBU 49688 ① ②	413 4102 00
B163	PEARL BLUE	RM 85017 ①	N.A.	413 4089 00
B164	AQUA BLUE	Refer to new paint codes		N.A.
B165	VIOLET	Refer to new paint codes		413 4090 00
B166	FLAME RED	Refer to new paint codes		N.A.

CORRESPONDING PAINT CODES (CONTINUED)

BOMBARDIER		B.A.S.F. R-M	PPG	SPRAY CAN
B167	BAVARIAN BLUE	RM 21618	190086	413 4097 00
B168	PLUM	RM 80348	59816	N.A.
B169	FOREST GREEN	RM 79833 ③ RM 79833-4 ④	DBU 49591F	413 4096 00
B170	METALLIC QUARTZ	RM 80262 ①	DBU 39002	N.A.
B172	TEAL BLUE	RM 87929 ①	DBU 18910	413 4103 00
B173	RASBERRY	RM 87365 ①	SICO: ID 3289	N.A.
B174	METALLIC FIREFLY GREEN	RM 80369 ③ RM 80369-46 ④	48029	N.A.
B175	METALLIC ROYAL VIOLET	RM 87151	19532	413 4104 00
B175A	NON-METALLIC ROYAL VIOLET (SWING ARM) NON-METALLIC ROYAL VIOLET (SPRING)	RM 87930 ③ RM 87930-9 ④ RM 87930-9 ④	59813 59813	413 4104 00 413 4104 00
B176	VIPER RED (HOOD) VIPER RED (FRAME)	87960 DFM 87960	N.A. 74790	413 4108 00 N.A.
B176 R	VIPER RED (FRAME)	87960-5		413 4136 00
B177	METALLIC OCEAN GREEN (HOOD) METALLIC OCEAN GREEN (FRAME)	RM 88482 RM 88481	48024 48025	N.A. N.A.
B177A	NON-METALLIC OCEAN GREEN	RM 88480	49536	413 4109 00
B178	NEON GREEN	RM 87961	49539F	N.A.
B179	SAPHIR BLUE	RM 93031	19821	413 4131 00
B181	ANTHRACITE	N.A.	39072	N.A.
B182	JAY BLUE	N.A.	18818	N.A.
B183	AFRICAN VIOLET (FRAME) AFRICAN VIOLET (SWING ARM and SPRING)	DFM 88792 FM 88792	59815 59815	N.A. 413 4135 00
B184	VELVET BLUE	93032		413 4134 00
B185	FIR GREEN	N.A.	190085	N.A.
B186	FRENCH BLUE	N.A.	19817	N.A.
B188	PLATINUM (HOOD)	89848	N.A.	413 4132 00
B188 W	PLATINUM (HOOD)	N.A.	N.A.	413 4133 00
B189	PINE GREEN	89867	N.A.	413 4129 00
B190	YELLOW 2000 (HOOD)	89849F	N.A.	413 4130 00

① A white undercoat must be applied: B.A.S.F. = 54-M25, R-M = BC 190 or 285-100, PPG = DMD 663.
② Approximate match.
③ 1995 models and earlier.
④ 1996 models.
⑤ Total mixed quantity does not equal 1 liter.
N.A.: Not Available.

NEW SKI-DOO PAINT CODE

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

B-165	VIOLET		①
RM			
BC	50	=	41.7
BC	300	=	167.7
BC	410	=	187.6
BC	470	=	194.9
BC	190	=	261.0

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

① Total mixed quantity does not equal 1 liter.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-9**

Date: December 1, 1997

SUBJECT: High Altitude Kits Update

Please update all snowmobiles that have had high altitude kits installed already, with following notes, according to their respective model.

For all following models, adjustment of RAVE valve spring caps should be three (3) turns out from seated position for use at and above 2400 m/8000 ft.

YEAR	MODEL	MODEL NUMBER	KIT NUMBER	NEW SHEET NUMBER
1998	Formula Z 670	1253/1254/1306	861 7614 00	415 1248 01
1998	Formula Z 583	1251/1252	861 7615 00	415 1249 01
1998	Formula 583 De Luxe	1249/1250	861 7616 00	415 1266 01
1998	MX Z 670	1278/1279/1280	861 7621 00	415 1264 01
1998	MX Z 583	1275/1276/1277	861 7622 00	415 1263 01
1998	Grand Touring 583	1221/1222/1223	861 7632 00	415 1260 01

For all following models, change RAVE valve springs, using (P/N 420 239 946), for use at and above 1800 m/6000 ft.

YEAR	MODEL	MODEL NUMBER	KIT NUMBER	NEW SHEET NUMBER
1998	Formula 500/500 De Luxe	1243/1244/1245 1246/1247/1248	861 7618 00	415 1265 01
1998	MX Z 500	1272/1273/1274	861 7623 00	415 1256 01
1998	Grand Touring 500	1218/1219/1220	861 7633 00	415 1259 01

For the following model, this service operation should be performed: At and above 2400 m/8000 ft, install wire connector, replacing protector cap, at open female connector, located below ignition module, using (P/N 515 174 700).

YEAR	MODEL	MODEL NUMBER	KIT NUMBER	NEW SHEET NUMBER
1998	Touring SLE	1229/1230/1231	861 7634 00	415 1257 01

NOTE: These specifications are of an utmost importance to properly tune the snowmobile for high altitude usage.

Remaining kits will be updated with corrected information.

Please advise all involved service personnel.

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-10**

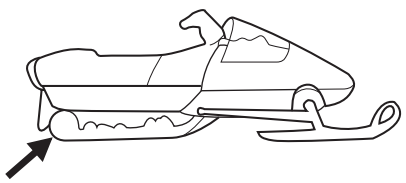
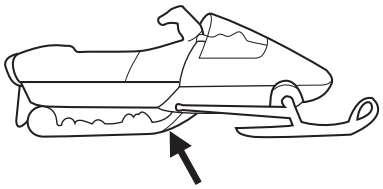
Date: November 25, 1997

SUBJECT: Spring Reference According to Load

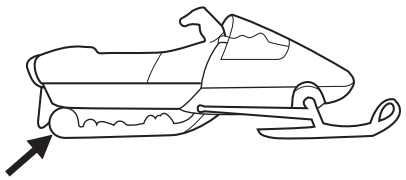
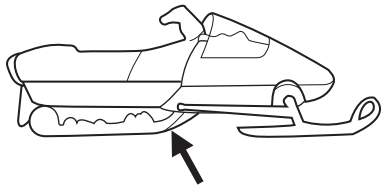
YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	ALL (except utility models)	ALL	ALL

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

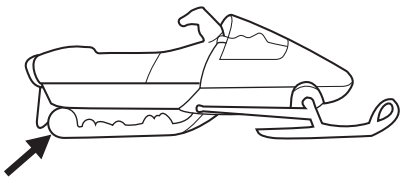
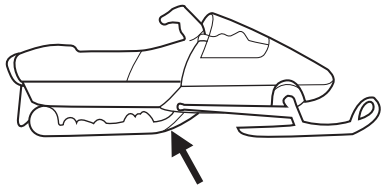
NOTE: The A.C.M.(Accelerator and Control Modulator) nut must be fully tightened when performing suspension adjustments (see *Operator's Guide*).

	TOURING LE, TOURING E, SKANDIC 380, SKANDIC 500							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 200 lb	414 9442 00	414 9443 00	1	Green	415 0699 00	N.A.	SI/YL/YL	Black
200 lb to 280 lb	414 9442 00	414 9443 00	2	Green	415 0699 00	N.A.	SI/YL/YL	Black
280 lb to 320 lb	414 9442 00	414 9443 00	3	Green	415 0699 00	N.A.	SI/YL/YL	Black
320 lb to 350 lb	414 9442 00	414 9443 00	4	Green	415 0699 00	N.A.	SI/YL/YL	Black
Option 1								
Up to 250 lb	415 0607 00	415 0608 00	1	Blue	414 7713 00	N.A.	BK/BK	Safari Red
250 lb to 330 lb	415 0607 00	415 06080 0	2	Blue	414 7713 00	N.A.	BK/BK	Safari Red
330 lb to 370 lb	415 0607 00	415 0608 00	3	Blue	414 7713 00	N.A.	BK/BK	Safari Red
370 lb to 400 lb	415 0607 00	415 0608 00	4	Blue	414 7713 00	N.A.	BK/BK	Safari Red

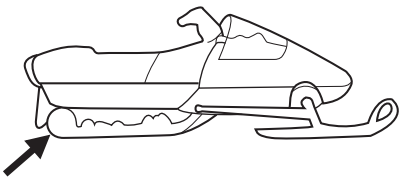
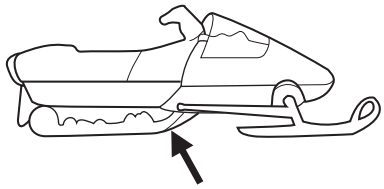
SPRING COLOR CODES
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

	FORMULA S, FORMULA S ELECTRIC, FORMULA SL							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 125 lb	414 8662 00	414 8663 00	1	Yellow	415 0699 00	N.A.	SI/YL/YL	Black
125 lb to 150 lb	414 8662 00	414 8663 00	2	Yellow	415 0699 00	N.A.	SI/YL/YL	Black
150 lb to 175 lb	414 8662 00	414 8663 00	3	Yellow	415 0699 00	N.A.	SI/YL/YL	Black
175 lb to 200 lb	414 8662 00	414 8663 00	4	Yellow	415 0699 00	N.A.	SI/YL/YL	Black
Option 1								
Up to 175 lb	414 9435 00	414 9436 00	1	White	414 7713 00	N.A.	BK/BK	Safari Red
175 lb to 200 lb	414 9435 00	414 9436 00	2	White	414 7713 00	N.A.	BK/BK	Safari Red
200 lb to 225 lb	414 9435 00	414 9436 00	3	White	414 7713 00	N.A.	BK/BK	Safari Red
225 lb to 250 lb	414 9435 00	414 9436 00	4	White	414 7713 00	N.A.	BK/BK	Safari Red
Option 2								
Up to 225 lb	415 0105 00	415 0106 00	1	Red	414 7713 00	N.A.	BK/BK	Safari Red
225 lb to 250 lb	415 0105 00	415 0106 00	2	Red	414 7713 00	N.A.	BK/BK	Safari Red
250 lb to 275 lb	415 0105 00	415 0106 00	3	Red	414 7713 00	N.A.	BK/BK	Safari Red
275 lb to 300 lb	415 0105 00	415 0106 00	4	Red	414 7713 00	N.A.	BK/BK	Safari Red
Option 3								
Up to 275 lb	414 9442 00	414 9443 00	1	Green	414 7713 00	N.A.	BK/BK	Safari Red
275 lb to 300 lb	414 9442 00	414 9443 00	2	Green	414 7713 00	N.A.	BK/BK	Safari Red
300 lb to 325 lb	414 9442 00	414 9443 00	3	Green	414 7713 00	N.A.	BK/BK	Safari Red
325 lb to 350 lb	414 9442 00	414 9443 00	4	Green	414 7713 00	N.A.	BK/BK	Safari Red
Option 4								
Up to 325 lb	415 0607 00	415 0608 00	1	Blue	414 7713 00	N.A.	BK/BK	Safari Red
325 lb to 350 lb	415 0607 00	415 0608 00	2	Blue	414 7713 00	N.A.	BK/BK	Safari Red
350 lb to 375 lb	415 0607 00	415 0608 00	3	Blue	414 7713 00	N.A.	BK/BK	Safari Red
375 lb to 400 lb	415 0607 00	415 0608 00	4	Blue	414 7713 00	N.A.	BK/BK	Safari Red

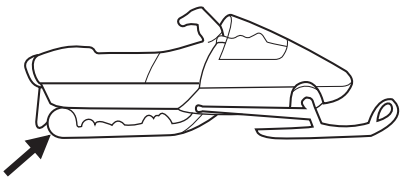
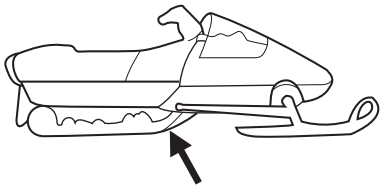
SPRING COLOR CODES
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

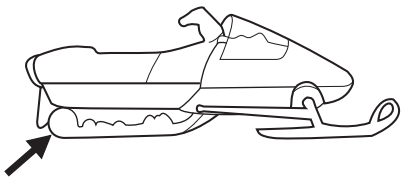
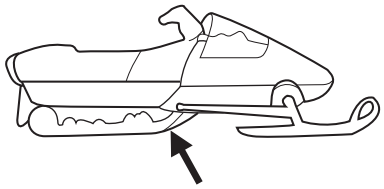
	TOURING SLE							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 200 lb	414 9442 00	414 9443 00	1	Green	415 0705 00	1	BL/YL/YL	Black
200 lb to 250 lb	414 9442 00	414 9443 00	2	Green	415 0705 00	1	BL/YL/YL	Black
250 lb to 300 lb	414 9442 00	414 9443 00	3	Green	415 0705 00	2	BL/YL/YL	Black
300 lb to 350 lb	414 9442 00	414 9443 00	4	Green	415 0705 00	3	BL/YL/YL	Black
350 lb to 375 lb	414 9442 00	414 9443 00	4	Green	415 0705 00	4	BL/YL/YL	Black
375 lb to 400 lb	414 9442 00	414 9443 00	4	Green	415 0705 00	5	BL/YL/YL	Black
Option 1								
Up to 250 lb	415 0607 00	415 0608 00	1	Blue	415 0710 00	1	SI/RD/YL	Black
250 lb to 300 lb	415 0607 00	415 0608 00	2	Blue	415 0710 00	1	SI/RD/YL	Black
300 lb to 350 lb	415 0607 00	415 0608 00	3	Blue	415 0710 00	2	SI/RD/YL	Black
350 lb to 400 lb	415 0607 00	415 0608 00	4	Blue	415 0710 00	3	SI/RD/YL	Black
400 lb to 425 lb	415 0607 00	415 0608 00	4	Blue	415 0710 00	4	SI/RD/YL	Black
425 lb to 450 lb	415 0607 00	415 0608 00	4	Blue	415 0710 00	5	SI/RD/YL	Black

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

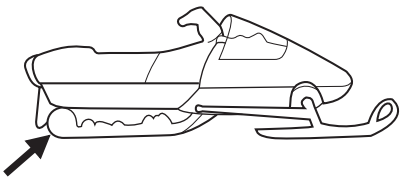
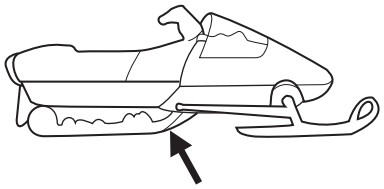
	FORMULA 500, FORMULA 500 DE LUXE, MX Z 440 F							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 150 lb	414 9435 00	414 9436 00	1	White	415 0701 00	1	GD/YL/YL	Black
150 lb to 180 lb	414 9435 00	414 9436 00	2	White	415 0701 00	2	GD/YL/YL	Black
180 lb to 210 lb	414 9435 00	414 9436 00	3	White	415 0701 00	3	GD/YL/YL	Black
210 lb to 240 lb	414 9435 00	414 9436 00	4	White	415 0701 00	4	GD/YL/YL	Black
240 lb to 265 lb	414 9435 00	414 9436 00	4	White	415 0701 00	5	GD/YL/YL	Black
Option 1								
Up to 200 lb	415 0105 00	415 0106 00	1	Red	415 0705 00	1	BL/YL/YL	Black
200 lb to 230 lb	415 0105 00	415 0106 00	2	Red	415 0705 00	2	BL/YL/YL	Black
230 lb to 265 lb	415 0105 00	415 0106 00	3	Red	415 0705 00	3	BL/YL/YL	Black
265 lb to 300 lb	415 0105 00	415 0106 00	4	Red	415 0705 00	4	BL/YL/YL	Black
300 lb to 325 lb	415 0105 00	415 0106 00	4	Red	415 0705 00	5	BL/YL/YL	Black
Option 2								
Up to 250 lb	414 9442 00	414 9443 00	1	Green	415 0705 00	1	BL/YL/YL	Black
250 lb to 280 lb	414 9442 00	414 9443 00	2	Green	415 0705 00	2	BL/YL/YL	Black
280 lb to 325 lb	414 9442 00	414 9443 00	3	Green	415 0705 00	3	BL/YL/YL	Black
325 lb to 350 lb	414 9442 00	414 9443 00	4	Green	415 0705 00	4	BL/YL/YL	Black
350 lb to 375 lb	414 9442 00	414 9443 00	4	Green	415 0705 00	5	BL/YL/YL	Black
Option 3								
Up to 300 lb	415 0607 00	415 0608 00	1	Blue	415 0705 00	1	BL/YL/YL	Black
300 lb to 330 lb	415 0607 00	415 0608 00	2	Blue	415 0705 00	2	BL/YL/YL	Black
330 lb to 375 lb	415 0607 00	415 0608 00	3	Blue	415 0705 00	3	BL/YL/YL	Black
375 lb to 400 lb	415 0607 00	415 0608 00	4	Blue	415 0705 00	4	BL/YL/YL	Black
400 lb to 425 lb	415 0607 00	415 0608 00	4	Blue	415 0705 00	5	BL/YL/YL	Black

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

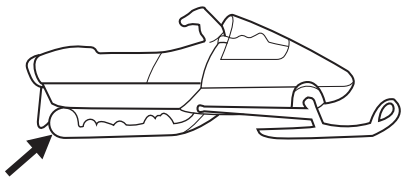
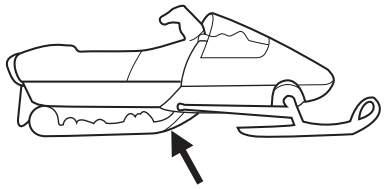
	SUMMIT 500, SUMMIT 583, SUMMIT 670							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 150 lb	414 8662 00	414 8663 00	1	Yellow	415 0705 00	1	BL/YL/YL	Black
150 lb to 180 lb	414 8662 00	414 8663 00	2	Yellow	415 0705 00	2	BL/YL/YL	Black
180 lb to 210 lb	414 8662 00	414 8663 00	3	Yellow	415 0705 00	3	BL/YL/YL	Black
210 lb to 240 lb	414 8662 00	414 8663 00	4	Yellow	415 0705 00	4	BL/YL/YL	Black
240 lb to 265 lb	414 8662 00	414 8663 00	4	Yellow	415 0705 00	5	BL/YL/YL	Black
Option 1								
Up to 200 lb	414 9435 00	414 9436 00	1	White	415 0710 00	1	SI/RD/YL	Black
200 lb to 230 lb	414 9435 00	414 9436 00	2	White	415 0710 00	2	SI/RD/YL	Black
230 lb to 265 lb	414 9435 00	414 9436 00	3	White	415 0710 00	3	SI/RD/YL	Black
265 lb to 300 lb	414 9435 00	414 9436 00	4	White	415 0710 00	4	SI/RD/YL	Black
300 lb to 325 lb	414 9435 00	414 9436 00	4	White	415 0710 00	5	SI/RD/YL	Black
Option 2								
Up to 250 lb	415 0105 00	415 0106 00	1	Red	415 0710 00	1	SI/RD/YL	Black
250 lb to 280 lb	415 0105 00	415 0106 00	2	Red	415 0710 00	2	SI/RD/YL	Black
280 lb to 325 lb	415 0105 00	415 0106 00	3	Red	415 0710 00	3	SI/RD/YL	Black
325 lb to 350 lb	415 0105 00	415 0106 00	4	Red	415 0710 00	4	SI/RD/YL	Black
350 lb to 375 lb	415 0105 00	415 0106 00	4	Red	415 0710 00	5	SI/RD/YL	Black
Option 3								
Up to 300 lb	414 9442 00	414 9443 00	1	Green	415 0710 00	1	SI/RD/YL	Black
300 lb to 330 lb	414 9442 00	414 9443 00	2	Green	415 0710 00	2	SI/RD/YL	Black
330 lb to 375 lb	414 9442 00	414 9443 00	3	Green	415 0710 00	3	SI/RD/YL	Black
375 lb to 400 lb	414 9442 00	414 9443 00	4	Green	415 0710 00	4	SI/RD/YL	Black
400 lb to 425 lb	414 9442 00	414 9443 00	4	Green	415 0710 00	5	SI/RD/YL	Black
Option 4								
Up to 350 lb	415 0607 00	415 0608 00	1	Blue	415 0710 00	1	SI/RD/YL	Black
350 lb to 380 lb	415 0607 00	415 0608 00	2	Blue	415 0710 00	2	SI/RD/YL	Black
380 lb to 425 lb	415 0607 00	415 0608 00	3	Blue	415 0710 00	3	SI/RD/YL	Black
425 lb to 450 lb	415 0607 00	415 0608 00	4	Blue	415 0710 00	4	SI/RD/YL	Black
450 lb to 475 lb	415 0607 00	415 0608 00	4	Blue	415 0710 00	5	SI/RD/YL	Black
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

	GRAND TOURING SE								
	REAR SPRING 				CENTER SPRING 				
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	AIR PRESSURE
Standard									
Up to 175 lb	415 0105 00	415 0106 00	1	Red	415 0576 00	3	BL/GD	Black	1/8
175 lb to 225 lb	415 0105 00	415 0106 00	1	Red	415 0576 00	3	BL/GD	Black	1/4
225 lb to 300 lb	415 0105 00	415 0106 00	1	Red	415 0576 00	3	BL/GD	Black	1/2
300 lb to 350 lb	415 0105 00	415 0106 00	1	Red	415 0576 00	3	BL/GD	Black	3/4
350 lb to 400 lb	415 0105 00	415 0106 00	2	Red	415 0576 00	3	BL/GD	Black	3/4
400 lb to 450 lb	415 0105 00	415 0106 00	3	Red	415 0576 00	3	BL/GD	Black	3/4
450 lb to 500 lb	415 0105 00	415 0106 00	4	Red	415 0576 00	3	BL/GD	Black	3/4
500 lb to 550 lb	415 0105 00	415 0106 00	4	Red	415 0576 00	3	BL/GD	Black	4/4
Option 1									
Up to 225 lb	414 9442 00	414 9443 00	1	Green	415 0576 00	3	BL/GD	Black	1/8
225 lb to 275 lb	414 9442 00	414 9443 00	1	Green	415 0576 00	3	BL/GD	Black	1/4
275 lb to 325 lb	414 9442 00	414 9443 00	1	Green	415 0576 00	3	BL/GD	Black	1/2
325 lb to 385 lb	414 9442 00	414 9443 00	1	Green	415 0576 00	3	BL/GD	Black	3/4
385 lb to 440 lb	414 9442 00	414 9443 00	2	Green	415 0576 00	3	BL/GD	Black	3/4
440 lb to 500 lb	414 9442 00	414 9443 00	3	Green	415 0576 00	3	BL/GD	Black	3/4
500 lb to 550 lb	414 9442 00	414 9443 00	4	Green	415 0576 00	3	BL/GD	Black	3/4
550 lb to 600 lb	414 9442 00	414 9443 00	4	Green	415 0576 00	3	BL/GD	Black	4/4
Option 2									
Up to 275 lb	415 0607 00	415 0608 00	1	Blue	415 0576 00	3	BL/GD	Black	1/8
275 lb to 325 lb	415 0607 00	415 0608 00	1	Blue	415 0576 00	3	BL/GD	Black	1/4
325 lb to 375 lb	415 0607 00	415 0608 00	1	Blue	415 0576 00	3	BL/GD	Black	1/2
375 lb to 435 lb	415 0607 00	415 0608 00	1	Blue	415 0576 00	3	BL/GD	Black	3/4
435 lb to 490 lb	415 0607 00	415 0608 00	2	Blue	415 0576 00	3	BL/GD	Black	3/4
490 lb to 550 lb	415 0607 00	415 0608 00	3	Blue	415 0576 00	3	BL/GD	Black	3/4
550 lb to 600 lb	415 0607 00	415 0608 00	4	Blue	415 0576 00	3	BL/GD	Black	3/4
600 lb to 650 lb	415 0607 00	415 0608 00	4	Blue	415 0576 00	3	BL/GD	Black	4/4

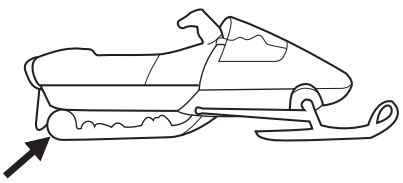
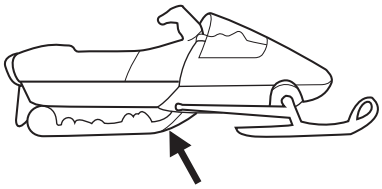
SPRING COLOR CODES
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

	FORMULA Z 583, FORMULA 583 DELUXE							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 150 lb	415 0105 00	415 0106 00	1	Red	415 0704 00	1	GN/YL/YL	Black
150 lb to 180 lb	415 0105 00	415 0106 00	2	Red	415 0704 00	2	GN/YL/YL	Black
180 lb to 210 lb	415 0105 00	415 0106 00	3	Red	415 0704 00	3	GN/YL/YL	Black
210 lb to 250 lb	415 0105 00	415 0106 00	4	Red	415 0704 00	4	GN/YL/YL	Black
250 lb to 275 lb	415 0105 00	415 0106 00	4	Red	415 0704 00	5	GN/YL/YL	Black
Option 1								
Up to 200 lb	414 9442 00	414 9443 00	1	Green	414 7713 00	1	BK/BK	Safari Red
200 lb to 230 lb	414 9442 00	414 9443 00	2	Green	414 7713 00	2	BK/BK	Safari Red
230 lb to 260 lb	414 9442 00	414 9443 00	3	Green	414 7713 00	3	BK/BK	Safari Red
260 lb to 300 lb	414 9442 00	414 9443 00	4	Green	414 7713 00	4	BK/BK	Safari Red
300 lb to 325 lb	414 9442 00	414 9443 00	4	Green	414 7713 00	5	BK/BK	Safari Red
Option 2								
Up to 250 lb	415 0607 00	415 0608 00	1	Blue	414 7713 00	1	BK/BK	Safari Red
250 lb to 280 lb	415 0607 00	415 0608 00	2	Blue	414 7713 00	2	BK/BK	Safari Red
280 lb to 310 lb	415 0607 00	415 0608 00	3	Blue	414 7713 00	3	BK/BK	Safari Red
310 lb to 350 lb	415 0607 00	415 0608 00	4	Blue	414 7713 00	4	BK/BK	Safari Red
350 lb to 375 lb	415 0607 00	415 0608 00	4	Blue	414 7713 00	5	BK/BK	Safari Red

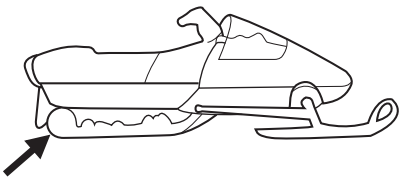
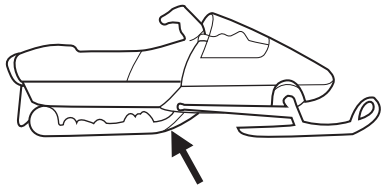
SPRING COLOR CODES
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

	FORMULA III 600, MACH Z, MACH 1							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 200 lb	414 9442 00	414 9443 00	1	Green	415 1036 00	1	GN/GN/YL	Black
200 lb to 240 lb	414 9442 00	414 9443 00	2	Green	415 1036 00	2	GN/GN/YL	Black
240 lb to 270 lb	414 9442 00	414 9443 00	3	Green	415 1036 00	3	GN/GN/YL	Black
270 lb to 300 lb	414 9442 00	414 9443 00	4	Green	415 1036 00	4	GN/GN/YL	Black
300 lb to 310 lb	414 9442 00	414 9443 00	4	Green	415 1036 00	5	GN/GN/YL	Black
310 lb to 320 lb	414 9442 00	414 9443 00	4	Green	415 1036 00	6	GN/GN/YL	Black
320 lb to 330 lb	414 9442 00	414 9443 00	4	Green	415 1036 00	7	GN/GN/YL	Black
Option 1								
Up to 250 lb	415 0607 00	415 0608 00	1	Blue	415 0575 00	1	RD/GD	Black
250 lb to 290 lb	415 0607 00	415 0608 00	2	Blue	415 0575 00	2	RD/GD	Black
290 lb to 320 lb	415 0607 00	415 0608 00	3	Blue	415 0575 00	3	RD/GD	Black
320 lb to 350 lb	415 0607 00	415 0608 00	4	Blue	415 0575 00	4	RD/GD	Black
350 lb to 360 lb	415 0607 00	415 0608 00	4	Blue	415 0575 00	5	RD/GD	Black
360 lb to 370 lb	415 0607 00	415 0608 00	4	Blue	415 0575 00	6	RD/GD	Black
370 lb to 380 lb	415 0607 00	415 0608 00	4	Blue	415 0575 00	7	RD/GD	Black

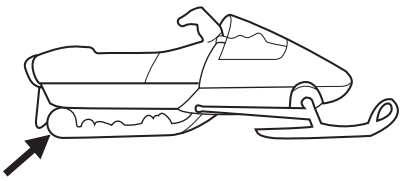
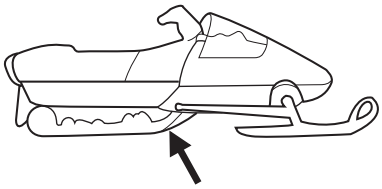
SPRING COLOR CODES
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

	GRAND TOURING 583, GRAND TOURING 500							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 190 lb	414 9442 00	414 9443 00	1	Green	415 0706 00	1	RD/YL/YL	Black
190 lb to 250 lb	414 9442 00	414 9443 00	2	Green	415 0706 00	2	RD/YL/YL	Black
250 lb to 300 lb	414 9442 00	414 9443 00	3	Green	415 0706 00	3	RD/YL/YL	Black
300 lb to 350 lb	414 9442 00	414 9443 00	4	Green	415 0706 00	4	RD/YL/YL	Black
350 lb to 375 lb	414 9442 00	414 9443 00	4	Green	415 0706 00	5	RD/YL/YL	Black
Option 1								
Up to 240 lb	415 0607 00	415 0608 00	1	Blue	415 0576 00	1	BL/GD	Black
240 lb to 300 lb	415 0607 00	415 0608 00	2	Blue	415 0576 00	2	BL/GD	Black
300 lb to 350 lb	415 0607 00	415 0608 00	3	Blue	415 0576 00	3	BL/GD	Black
350 lb to 400 lb	415 0607 00	415 0608 00	4	Blue	415 0576 00	4	BL/GD	Black
400 lb to 425 lb	415 0607 00	415 0608 00	4	Blue	415 0576 00	5	BL/GD	Black

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

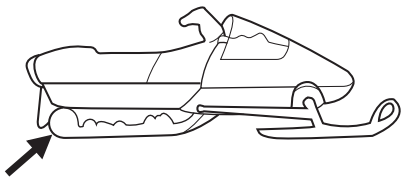
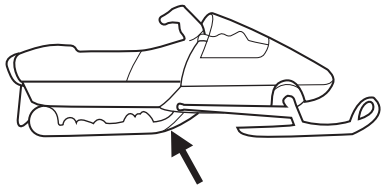
	MX Z 500, MX Z 583, MX Z 670							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 150 lb	414 9435 00	414 9436 00	1	White	415 0703 00	1	OR/YL/YL	Black
150 lb to 180 lb	414 9435 00	414 9436 00	2	White	415 0703 00	2	OR/YL/YL	Black
180 lb to 210 lb	414 9435 00	414 9436 00	3	White	415 0703 00	3	OR/YL/YL	Black
210 lb to 250 lb	414 9435 00	414 9436 00	4	White	415 0703 00	5	OR/YL/YL	Black
250 lb to 265 lb	414 9435 00	414 9436 00	4	White	415 0703 00	6	OR/YL/YL	Black
265 lb to 280 lb	414 9435 00	414 9436 00	4	White	415 0703 00	7	OR/YL/YL	Black
Option 1								
Up to 200 lb	415 0105 00	415 0106 00	1	Red	414 9761 00	1	PI/YL	Viper Red
200 lb to 230 lb	415 0105 00	415 0106 00	2	Red	414 9761 00	2	PI/YL	Viper Red
230 lb to 260 lb	415 0105 00	415 0106 00	3	Red	414 9761 00	3	PI/YL	Viper Red
260 lb to 300 lb	415 0105 00	415 0106 00	4	Red	414 9761 00	5	PI/YL	Viper Red
300 lb to 315 lb	415 0105 00	415 0106 00	4	Red	414 9761 00	6	PI/YL	Viper Red
315 lb to 330 lb	415 0105 00	415 0106 00	4	Red	414 9761 00	7	PI/YL	Viper Red
Option 2								
Up to 250 lb	414 9442 00	414 9443 00	1	Green	414 9761 00	1	PI/YL	Viper Red
250 lb to 280 lb	414 9442 00	414 9443 00	2	Green	414 9761 00	2	PI/YL	Viper Red
280 lb to 310 lb	414 9442 00	414 9443 00	3	Green	414 9761 00	3	PI/YL	Viper Red
310 lb to 350 lb	414 9442 00	414 9443 00	4	Green	414 9761 00	5	PI/YL	Viper Red
350 lb to 365 lb	414 9442 00	414 9443 00	4	Green	414 9761 00	6	PI/YL	Viper Red
365 lb to 380 lb	414 9442 00	414 9443 00	4	Green	414 9761 00	7	PI/YL	Viper Red
Option 3								
Up to 300 lb	415 0607 00	415 0608 00	1	Blue	414 9761 00	1	PI/YL	Viper Red
300 lb to 330 lb	415 0607 00	415 0608 00	2	Blue	414 9761 00	2	PI/YL	Viper Red
330 lb to 360 lb	415 0607 00	415 0608 00	3	Blue	414 9761 00	3	PI/YL	Viper Red
360 lb to 400 lb	415 0607 00	415 0608 00	4	Blue	414 9761 00	5	PI/YL	Viper Red
400 lb to 415 lb	415 0607 00	415 0608 00	4	Blue	414 9761 00	6	PI/YL	Viper Red
415 lb to 430 lb	415 0607 00	415 0608 00	4	Blue	414 9761 00	7	PI/YL	Viper Red

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

	GRAND TOURING 700							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 200 lb	415 0607 00	415 0608 00	1	Blue	415 0576 00	1	BL/GD	Black
200 lb to 250 lb	415 0607 00	415 0608 00	2	Blue	415 0576 00	2	BL/GD	Black
250 lb to 300 lb	415 0607 00	415 0608 00	3	Blue	415 0576 00	3	BL/GD	Black
300 lb to 350 lb	415 0607 00	415 0608 00	4	Blue	415 0576 00	4	BL/GD	Black
350 lb to 400 lb	415 0607 00	415 0608 00	4	Blue	415 0576 00	5	BL/GD	Black
Option 1								
Up to 225 lb	415 0607 00	415 0608 00	1	Blue	415 0707 00	1	YL/YL/YL	Black
225 lb to 275 lb	415 0607 00	415 0608 00	2	Blue	415 0707 00	2	YL/YL/YL	Black
275 lb to 325 lb	415 0607 00	415 0608 00	3	Blue	415 0707 00	3	YL/YL/YL	Black
325 lb to 375 lb	415 0607 00	415 0608 00	4	Blue	415 0707 00	4	YL/YL/YL	Black
375 lb to 425 lb	415 0607 00	415 0608 00	4	Blue	415 0707 00	5	YL/YL/YL	Black

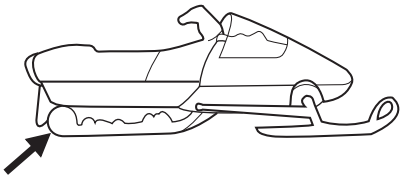
SPRING COLOR CODES
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

.

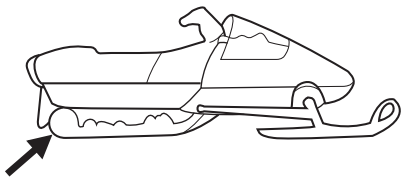
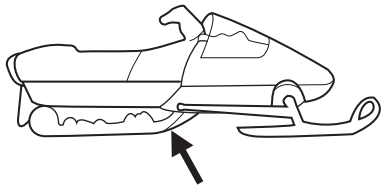
	FORMULA III 700							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 200 lb	414 9442 00	414 9443 00	1	Green	415 1036 00	1	GN/GN/YL	Black
200 lb to 240 lb	414 9442 00	414 9443 00	2	Green	415 1036 00	2	GN/GN/YL	Black
240 lb to 270 lb	414 9442 00	414 9443 00	3	Green	415 1036 00	3	GN/GN/YL	Black
270 lb to 300 lb	414 9442 00	414 9443 00	4	Green	415 1036 00	5	GN/GN/YL	Black
Option 1								
Up to 250 lb	415 0607 00	415 0608 00	1	Blue	415 0575 00	1	RD/GD	Black
250 lb to 290 lb	415 0607 00	415 0608 00	2	Blue	415 0575 00	2	RD/GD	Black
290 lb to 320 lb	415 0607 00	415 0608 00	3	Blue	415 0575 00	3	RD/GD	Black
320 lb to 350 lb	415 0607 00	415 0608 00	4	Blue	415 0575 00	5	RD/GD	Black

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

.

	FORMULA Z 670				
	REAR SPRING 				
	SHORT P/N	SHORT COLOR CODE	LONG P/N	LONG COLOR CODE	CAM POSITION
Standard					
Up to 150 lb	415 0903 00	GD/RD/YL	415 0904 00	WH/RD/YL	1
150 lb to 180 lb	415 0903 00	GD/RD/YL	415 0904 00	WH/RD/YL	2
180 lb to 210 lb	415 0903 00	GD/RD/YL	415 0904 00	WH/RD/YL	3
210 lb to 240 lb	415 0903 00	GD/RD/YL	415 0904 00	WH/RD/YL	4
240 lb to 270 lb	415 0903 00	GD/RD/YL	415 0904 00	WH/RD/YL	5
Option 1					
Up to180 lb	415 0903 00	GD/RD/YL	415 1104 00	YL/OR/YL	1
180 lb to 210 lb	415 0903 00	GD/RD/YL	415 1104 00	YL/OR/YL	2
210 lb to 240 lb	415 0903 00	GD/RD/YL	415 1104 00	YL/OR/YL	3
240 lb to 270 lb	415 0903 00	GD/RD/YL	415 1104 00	YL/OR/YL	4
270 lb to 300 lb	415 0903 00	GD/RD/YL	415 1104 00	YL/OR/YL	5

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

	MACH Z LT, MACH Z LT (SV TRACK), FORMULA III 600 LT							
	REAR SPRING 				CENTER SPRING 			
	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
Standard								
Up to 200 lb	415 0105 00	415 0106 00	1	Red	415 0576 00	2	BL/GD	Black
200 lb to 250 lb	415 0105 00	415 0106 00	2	Red	415 0576 00	2	BL/GD	Black
250 lb to 300 lb	415 0105 00	415 0106 00	3	Red	415 0576 00	2	BL/GD	Black
300 lb to 350 lb	415 0105 00	415 0106 00	4	Red	415 0576 00	3	BL/GD	Black
350 lb to 400 lb	415 0105 00	415 0106 00	4	Red	415 0576 00	5	BL/GD	Black
Option 1								
Up to 250 lb	414 9442 00	414 9443 00	1	Green	415 0707 00	2	YL/YL/YL	Black
250 lb to 300 lb	414 9442 00	414 9443 00	2	Green	415070700	2	YL/YL/YL	Black
300 lb to 350 lb	414 9442 00	414 9443 00	3	Green	415 0707 00	2	YL/YL/YL	Black
350 lb to 400 lb	414 9442 00	414 9443 00	4	Green	415 0707 00	3	YL/YL/YL	Black
400 lb to 450 lb	414 9442 00	414 9443 00	4	Green	415 0707 00	5	YL/YL/YL	Black
Option 2								
Up to 300 lb	415 0607 00	415 0608 00	1	Blue	415 0707 00	2	YL/YL/YL	Black
300 lb to 350 lb	415 0607 00	415 0608 00	2	Blue	415 0707 00	2	YL/YL/YL	Black
350 lb to 400 lb	415 0607 00	415 0608 00	3	Blue	415 0707 00	2	YL/YL/YL	Black
400 lb to 450 lb	415 0607 00	415 0608 00	4	Blue	415 0707 00	3	YL/YL/YL	Black
450 lb to 500 lb	415 0607 00	415 0608 00	4	Blue	415 0707 00	5	YL/YL/YL	Black

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

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-11**

Date: December 26, 1997

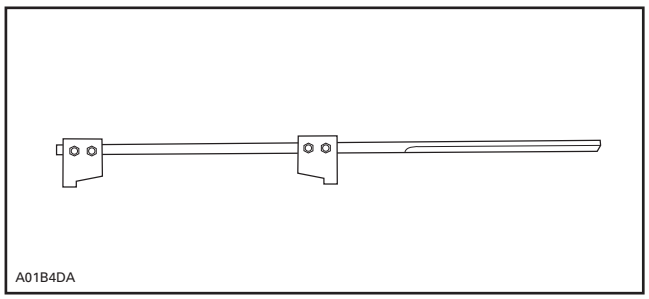
SUBJECT: Mandatory and Recommended Service Tools

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	ALL	ALL	ALL

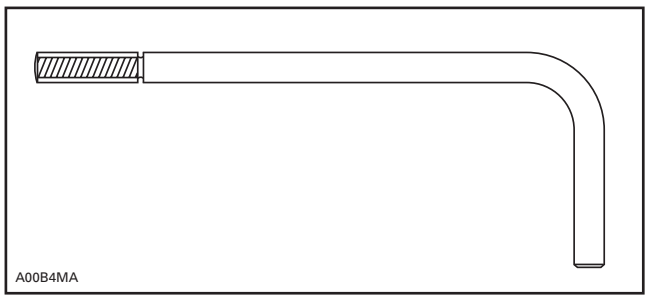
Attached is a list of additional tools to properly service 1998 Ski-Doo snowmobiles. If you need to replace or add to your tool inventory these items can be ordered through your regular parts channels.

MANDATORY SERVICE TOOLS

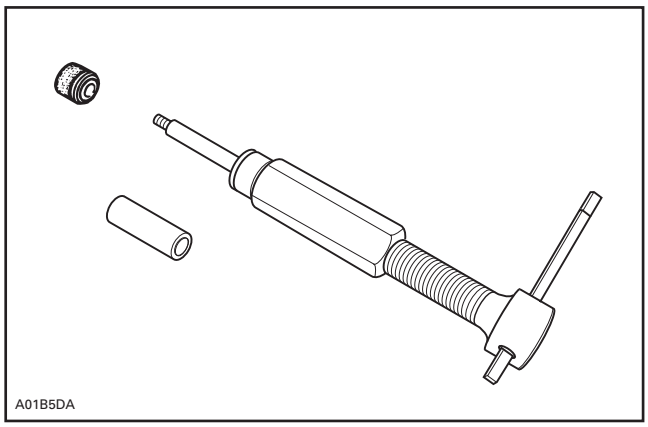
The following tools will be automatically shipped to all dealers/distributors.



TRANSMISSION ALIGNMENT BAR
(P/N 529 035 527) - CK3 models
(P/N 529 035 530) - Touring SLE
(P/N 529 035 545) - Skandic WT



DRIVE BELT INSTALLER
(P/N 529 034 200) - Tundra R



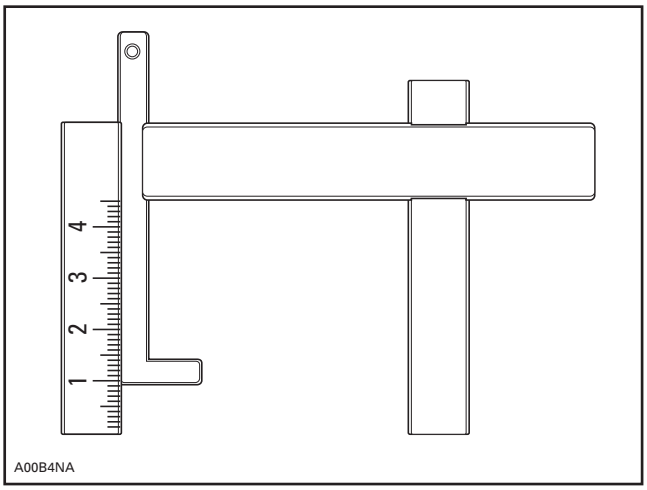
PISTON PIN EXTRACTOR
(P/N 529 035 503) - All models

NOTE: This tool supersedes (P/N 529 029 000) and will not be automatically shipped.

To upgrade the previous extractor, order plastic protector (P/N 529 035 513).

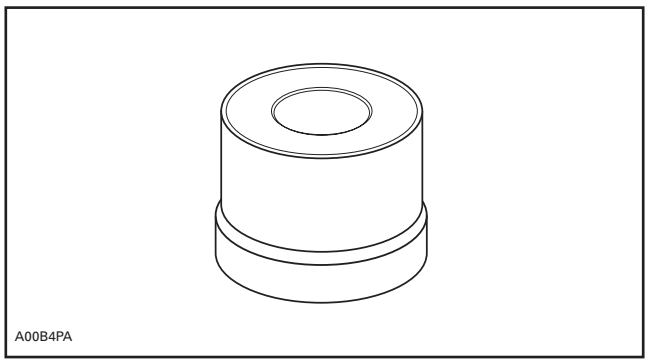
Litho'd in Canada (MBS-9806 ML)

OPTIONAL SERVICE TOOLS

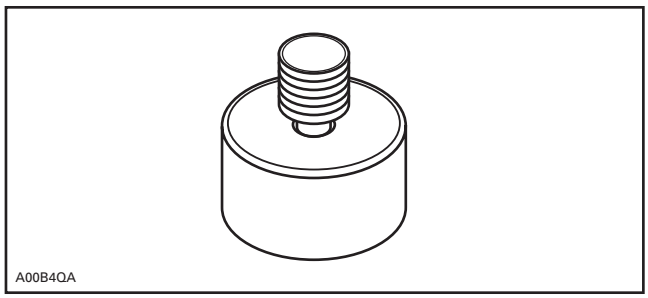


FLOAT LEVEL GAUGE
(P/N 529 035 520) - Mini Z

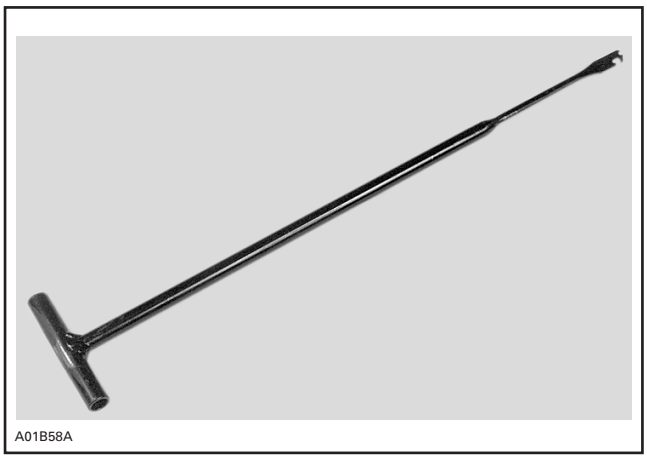
DRIVER TOOL
(P/N 529 035 521) - Mini Z



ATTACHMENT
(P/N 529 035 522) - Mini Z



PILOT 22 MM
(P/N 529 035 523) - Mini Z



SPRING INSTALLER/REMOVER
(P/N 529 035 400) - CK3 models

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-12**

Date: December 23. 1997

SUBJECT: Rear Suspension Alignment (Formula Z 670)

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	Formula* Z 670	1253/1254	ALL

On some of the above mentioned models, it might be difficult to obtain proper track alignment when performing track tension adjustment.

To correct this situation, remove suspension assembly from vehicle and check alignment of the suspension swing arm.

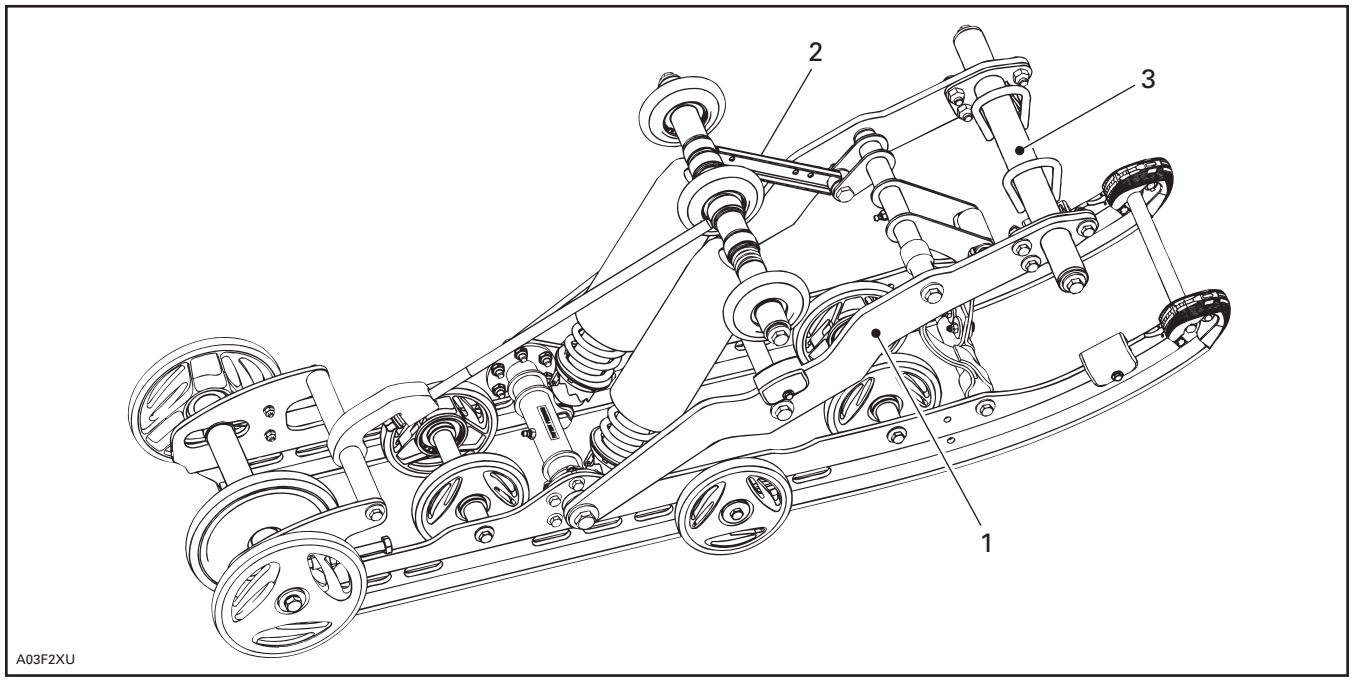
PROCEDURE

Remove suspension from under vehicle.

Refer to 1998 *Shop Manual, Volume 2,* (P/N 484 0682 00) for complete removal and installation procedure.

Lay suspension on a flat surface.

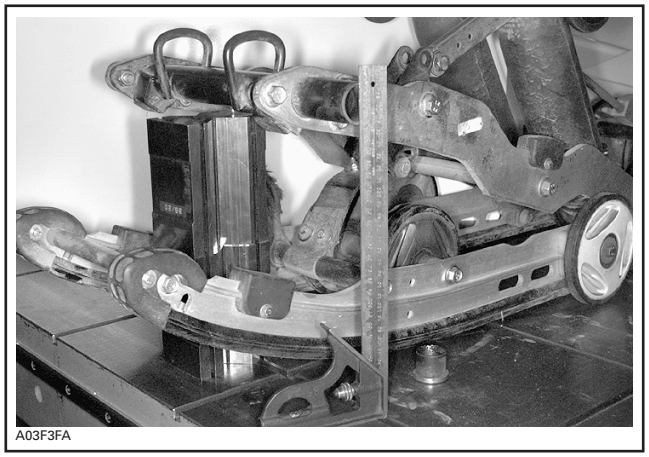
Remove bolt retaining swing arm pivot to small bracket.



1. *Swing arm ass*
2. *Small bracket*
3. *Upper tube*

Lean the center of the swing arm upper tube on a 28 cm (11 in) long support block.

Measure the distance from the flat surface to the top of the upper tube at both ends to find out which side is higher.


A03F3FA

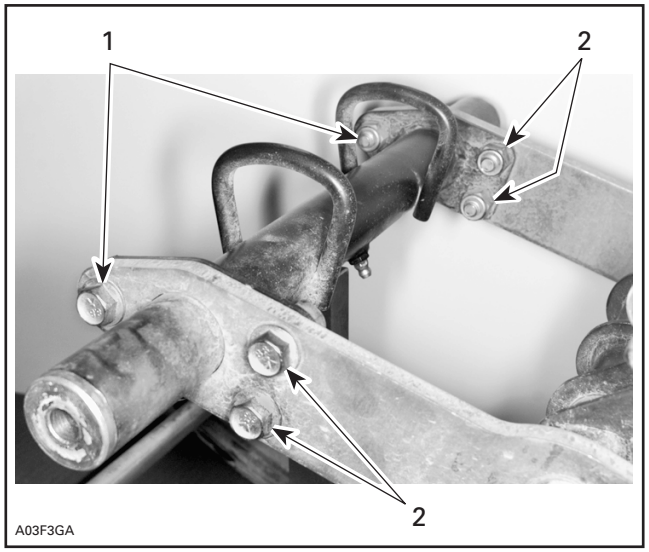
Loosen bolts retaining upper tube to swing arms.

◆ WARNING

Firmly hold suspension in place while performing swing arm alignment.

Firmly hold the center of the upper tube against the support block with one hand then press down the higher end of the upper tube with the other hand until both sides are equal distance from the flat surface.

Tighten front bolts retaining upper tube to swing arm and torque to 48 N•m (35 lbf•ft).



1. *Tighten first*
2. *Torque to 48 N•m (35 lbf•ft)*

Check upper tube alignment. Finalize alignment, if necessary then tighten remaining bolts and torque to 48 N•m (35 lbf•ft).

Attach swing arm pivot to small bracket and torque bolt to 48 N•m (35 lbf•ft).

Reinstall suspension assembly under vehicle.

Adjust tension and track alignment.

◆ WARNING

Before adjusting track, ensure that track is free from any particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track.

Refer to the proper section of the 1998 *Ski-Doo Shop Manual,* for complete track alignment procedure.

Please update the 1998 *Shop Manual, Volume 2, Section 07* (P/N 484 0682 00) with this procedure.

Please route to:

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-14**

Date: February 16, 1998

SUBJECT: A) Wiring Harnesses Wearing Trouble Shooting on CK3
B) Mach Z Electrical Diagnostics

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	MACH Z MACH Z R MACH Z LT MACH Z LT SV TRACK MACH Z LT R	1200/1312/1290 1294/1313 1302/1315/1308 1303/1316 1304/1317	All
1998	MACH 1 MACH 1 R	1202/1311/1203 1295/1314	All
1998	FORMULA III 600 FORMULA III 600 R FORMULA III 600 LT FORMULA III 700 FORMULA III 700 R	1334/1335/1255 1332/1333 1206/1207 1208/1209 1296/1297	All
1998	GRAND TOURING SE GRAND TOURING 700	1210/1319/1217 1211/1318/1212	All

On some of the above mentioned vehicles, owners may show-up with an electrical irregularity of an unknown source.

This Bulletin gives trouble shooting steps in order to quickly locate and repair said electrical irregularity. Once located, any or all harness wearing should be repaired.

A) WIRING HARNESSES WEARING (CK3)

INSPECTION OF AC CIRCUIT ISOLATION

If AC circuit is not isolated from frame, headlamp beam will weaken.

Disconnect regulator/rectifier.

Connect one digital ohmmeter probe (needle ohmmeter will not offer enough precision) to frame and other probe to one of the 2 YELLOW magneto wires.

Measured resistance must be infinite. If such is not the case, it means there is a connection between AC circuit and DC circuit.

Disconnect one accessory at the time to identify the faulty circuit.

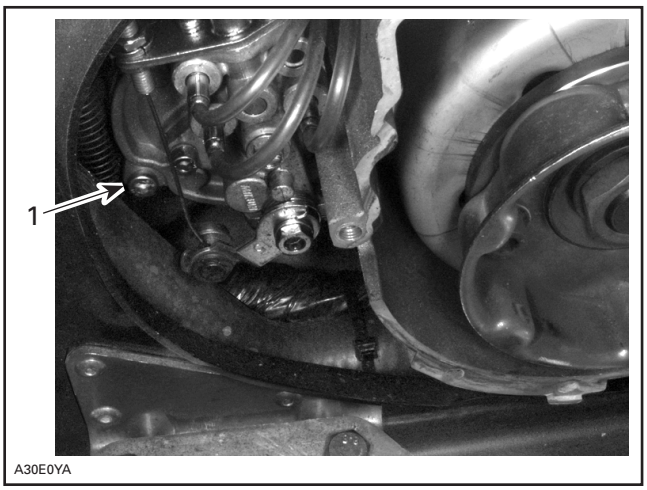
MAGNETO OUTPUT TEST

Proceed with testing magneto output as per procedure in appropriate *Shop Manual*, section 06, sub-section 06.

Underneath Magneto Housing and Oil Pump

Remove rewind starter housing.

A direct view below oil pump immediately shows any wiring rubbing hazards. Repair if any and relocate harness to obtain at least 10 mm (13/32 in.) clearance between pump housing and harness.



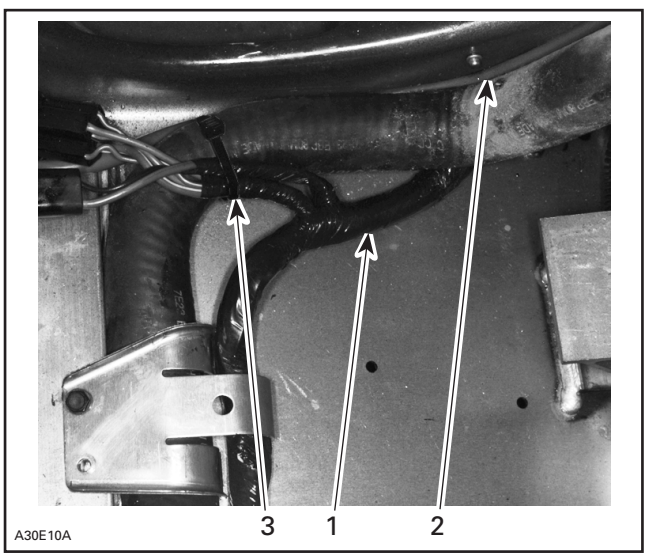
TYPICAL

1. *Check here*

Using an inspection lamp to light the area and a mirror to enable properly seeing that area, inspect routing of harness for any wearing.

Harness should be attached to hose.

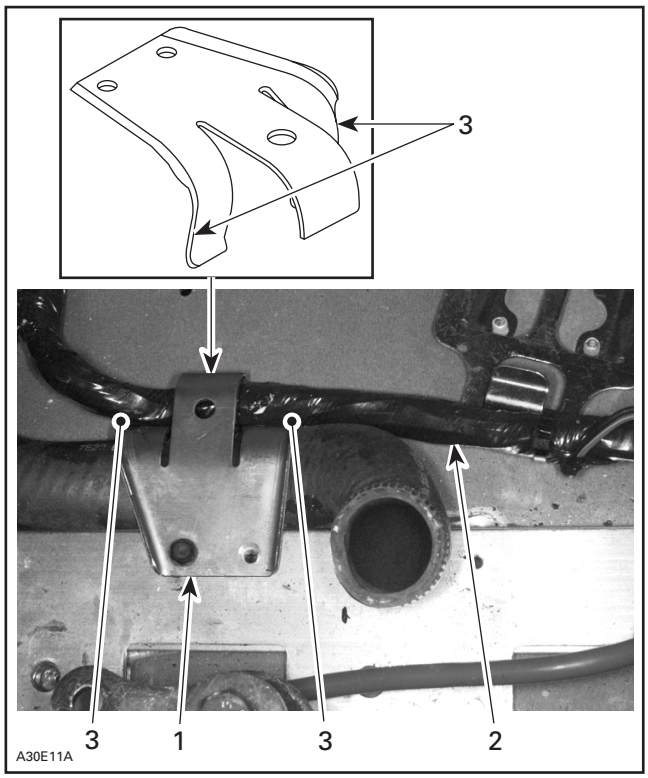
Positive cable (if so equipped) should be squeezed between harness and body as shown on next photo.



1. *Wiring harness*
2. *Positive Cable*
3. *Locking Tie*

Hose Protector Bracket and Right Front Motor Support

By using inspection lamp and a mirror, aiming at different angles, hose protector underneath engine and right front motor support can easily be seen, and harness wearing noticed. Remove sharp edge on hose protector as per following illustration.

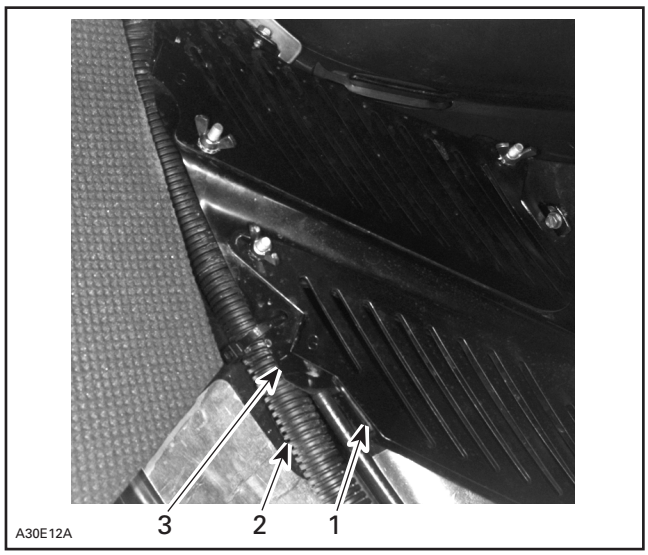


1. *Hose protector bracket*
2. *Wiring harness*
3. *Remove sharp edge*

Hood Harness Touching Exhaust System

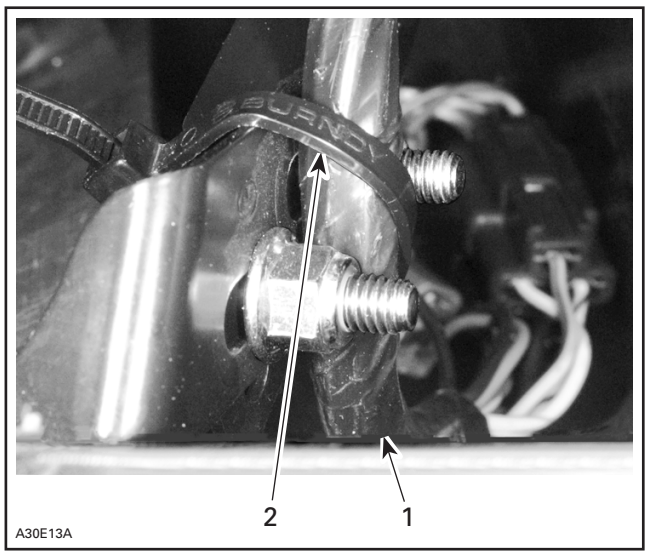
With hood opened, check routing of hood harness.

It should be secured between hood and grill, as shown on next illustration.



1. *Grill*
2. *Wiring harness*
3. *Check here*

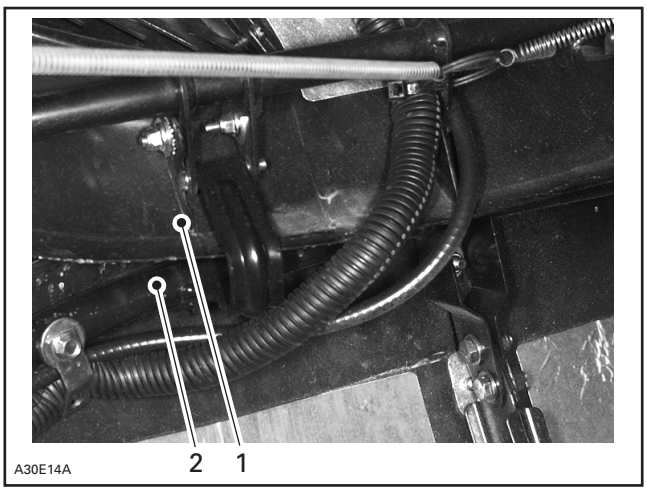
It should be properly secured in the bottom pan left corner and pushed away from pipes.



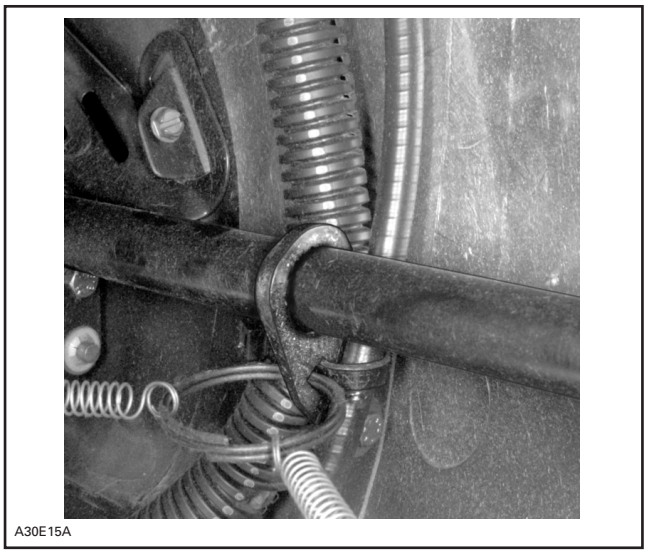
TOP VIEW

1. *Harness secured in corner of bottom pan*
2. *Locking tie*

Routing from bottom pan to under hood should be as shown in next photo.



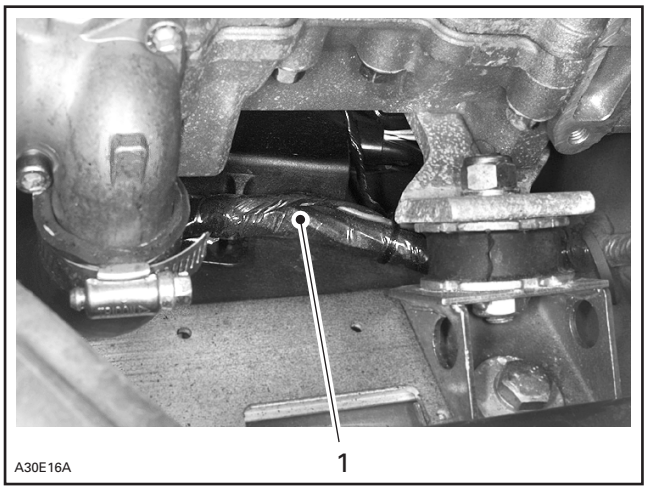
1. *Hood*
2. *Bottom pan*



RESPECT THIS ROUTING

Electronic Box Support

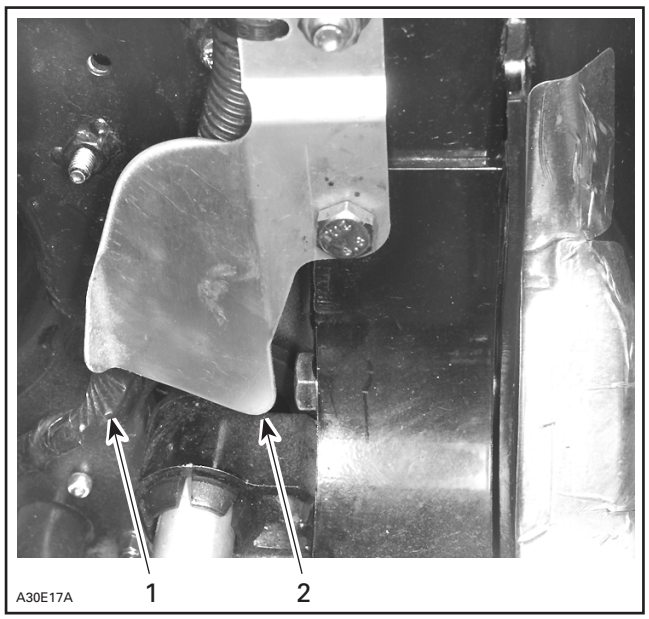
With exhaust system removed, if a visual inspection reveals wiring wear, repair same and add 30 mm (1-3/16 in.) of protector loom (P/N 409 901 600) to avoid further damages. Secure with locking tie on support. Refer to following photo.



1. *Wiring harness*

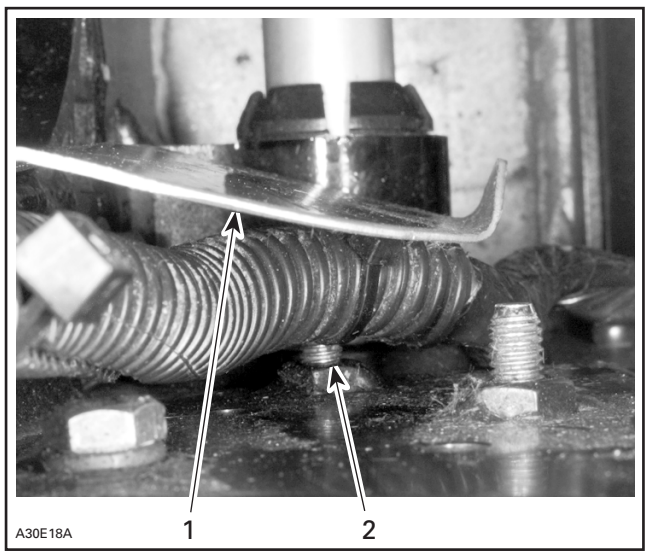
Left Front Harness Guard

Make sure harness is not rubbing on guard lower edge; if damages are noticed, repair and use protector loom to avoid further damages. Refer to following photo.



1. *Wiring harness*
2. *Guard*

Make sure also that harness is not routed too short causing it to rub on lower screw as shown on next photo.



TOP VIEW

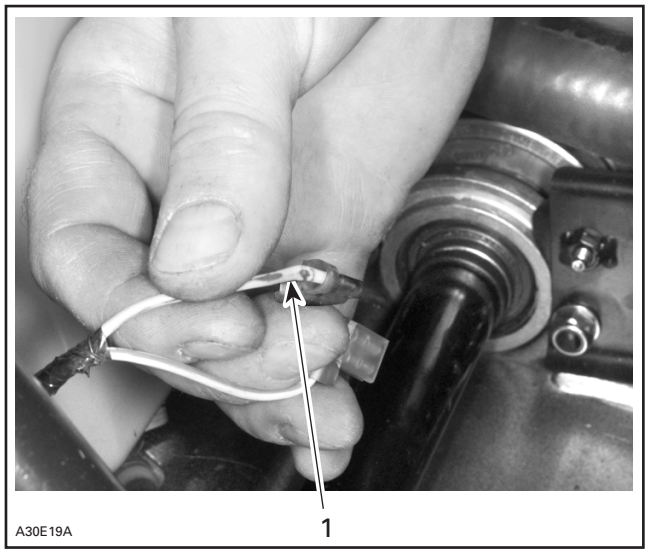
1. *Guard*
2. *Lower screw*

Oil Gauge Terminals

Remove belt guard.

Remove air intake silencer

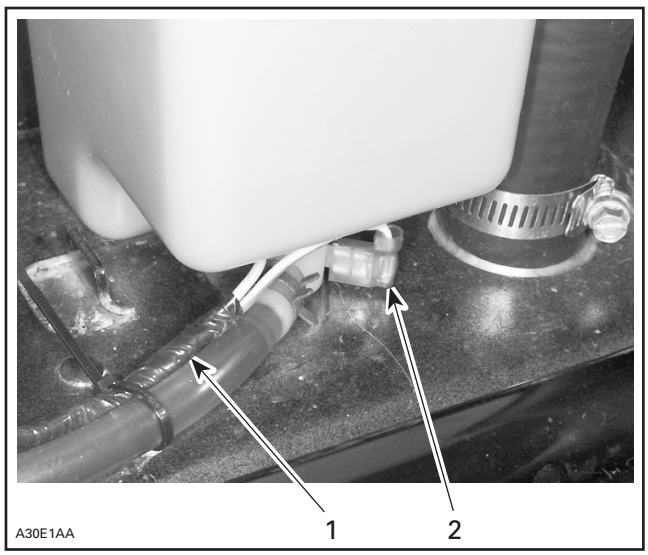
Check routing of oil gauge terminal wiring. Next photo shows skinned wire.



1. *Skinned wire*

Check terminal connections.

If required, reroute wiring from underneath hose to top of hose and connect terminals as shown on next photo.



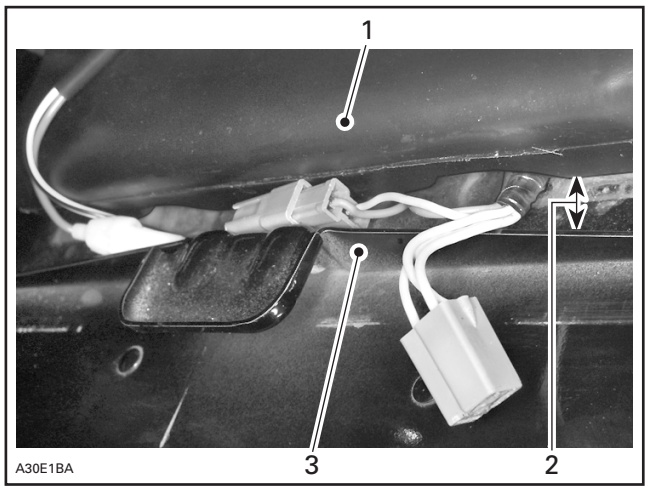
1. *Terminal connected*
2. *Wiring on top of hose*

Under Seat Harness Junction

Remove seat. Refer to appropriate *Shop Manual* for proper procedure.

Harness from underneath fuel tank should have a slight forward/backward free play announcing that hidden portion of harness is not pinched.

Terminal connections should rest freely between tank and metal recess as shown in following photo. Repair wires if required.



1. Fuel tank
2. Harness free play
3. Metal recess

B) MACH Z ELECTRICAL DIAGNOSTICS

Introduction

Similar to the 1998 Grand Touring 700, Grand Touring SE and the 1997 Grand Touring SE, the 1998 Mach Z has an electrical system that departs from traditional snowmobile electrical systems. All of these vehicles necessitate an increased understanding of traditional systems, as well as new system, before approaching diagnostic procedures.

Typically, with the exception of battery charging systems, all snowmobile electrical systems have been very similar in that they operate entirely with a basic 12 volt, alternating current (12V AC) design.

All lights, instruments and heating elements have been AC powered in recent years until the 1997 Grand Touring SE was introduced with its all direct current (DC) system.

This was the first snowmobile to display such a radical departure from the traditional AC design. Though seemingly complicated it is very simple in theory and design and to date has proven very reliable.

1998 Mach Z Particularities

The MACH Z takes another step away from tradition by combining the typical AC system with the DC system of the Grand Touring SE to form a "dual" design. (Keep in mind, we are not discussing any of the ignition or DESS systems).

Because marketing showed that consumers favored the **intensity controller** as a new method of lighting and heating control, engineering was challenged to incorporate this operator friendly switch assembly on the new MACH Z.

The controller was designed to operate with DC current, and since the MACH Z does not have a battery, a source of DC power had to be divided.

With the new dual 60 watt headlights also came a new powerful 290 watt alternator. This new alternator has plenty of reserve output which, when harnessed by a regulator-rectifier, is capable of supplying the demands of the intensity controller and heating elements.

The new regulator controls the AC current and supplies regulated DC current as well. DC voltage is supplied through 2 outputs on the new regulator; one is a filtered 100 milli-amp source, represented by a RED/BLUE wire, and the other is a 55 watt (RED/YELLOW wire).

Lights and instruments on MACH Z are powered by AC current while the intensity controller, headlight relay and heating elements are powered by the 2 DC power supplies.

It is crucial to understand the circuitry of this dual system before attempting diagnosis of any electrical problems. Study the wiring diagram to assist your comprehension of the design.

Testing

The "heart" of the MACH Z electrical system is indeed the **voltage regulator-rectifier**, however it is easily tested.

First, check the AC supply voltage using an AC voltmeter connected to any YELLOW and YELLOW/BLACK wires. One convenient place to perform this test is at the accessory terminal near the right rear of the air box.

Start the engine, at 1800 rpm (proper idle speed), all heaters off, and headlight on low beam, you should observe approximately 13.5 volts but not more than 15 volts even when revving the engine. If voltage is excessive, replace the regulator. If voltage is low or lighting and heating problems exist the regulator may, or may not be faulty. Before replacing the regulator for these reasons, test the alternator coils. If the AC voltage is correct, test the 2 DC outputs.

First locate the RED/BLUE wire on the back of the ignition switch. Connect the positive lead of a DC voltmeter here and the negative meter lead to an engine ground or any BLACK wire.

Start the engine.

At 1800 rpm with the heaters off and headlight on low beam, you should observe very close to 12 volts DC.

Next locate a RED/YELLOW wire and connect the positive lead of the voltmeter. At 1800 rpm, heaters off, headlight on low, approximately 14.5 volts DC should be present.

If either test shows excessive voltage, replace the regulator, found under the engine near the right front motor mount.

If DC voltage is low, first test the alternator coils to be sure the stator is healthy, but keep in mind that other problems may exist.

To test the **alternator coils**, unplug the round three prong connector just outside of the magneto housing.

Using an ohm-meter connect the test leads to the 2 YELLOW wires coming out of the stator. You should observe approximately 0.2 to 0.35 ohms. Now check for continuity between each YELLOW wire and an engine ground. There should be none. You may also test the alternator output by connecting an AC voltmeter to the 2 YELLOW wires and start the engine.

The tach won't work but at clutch engagement speed (4200 rpm), you should see about 40 volts AC.

If the alternator tests good but low voltage or problems persist you may try a new regulator; however it is difficult to access and you may want to further test the machine wiring and utilities, especially if intermittent lighting or heating problems occur.

The Intensity Controller

The "brain" of the MACH Z's electric system is the **intensity controller**; yet its function is very simple and can be easily tested.

It has 3 functions; Hi-Low beam switching of the headlight, hand warmer intensity control and thumb warmer intensity control.

The intensity controller contains a circuit board called the PCB (printed circuit board) which is dependent on DC voltage from the regulator. If the engine rpm is too low and voltage drops way off, the PCB may shut down. When this occurs all intensity controller functions are lost until the engine is shut off and the controller is allowed to reset.

The headlight is powered by AC current supplied through the traditional YELLOW and YELLOW/BLACK wires coming from the stator and regulated with the AC side of the regulator. A YELLOW wire goes to the headlight relay which, when not energized, connects that wire to the GRAY/VIOLET wire which powers the low beam filaments.

The relay's magnetic switch is powered by the RED/YELLOW wire (DC) coming from the regulator which, when supplied with a ground, switches the YELLOW (AC) wire to the GRAY wire (high beam). The intensity controller supplies the ground to energize the relay.

To test the relay, locate the GRAY/BLACK wire above and behind the air box.

Start the engine.

With headlight on low, use a jumper wire to connect the GRAY/BLACK wire to an engine ground. The headlight should switch to high beam and the indicator should light.

If the relay needs to be replaced or further tested, it may be found under the engine near the right front motor mount.

Testing

To test the functions of the intensity controller, locate its 2 connectors above and behind the air box and disconnect them.

Connect the positive lead of a 12 volt battery to the RED/BLUE wire going to the controller.

Connect a negative lead to the BLACK wire. This will power up the controller and its thumb switches should light.

Now use a simple 12 volt test light to test the functions. Connect one lead of the tester to the positive battery terminal.

Connect the tester probe or negative lead of the tester to the ORANGE wire coming from the controller.

Push the hand warmer button to the right and hold it for at least one second. The test light should be off.

Now "click" the button once to the left, the test light should light dimly. Click the button 4 more times, the test light should brighten each time.

Clicking the button to the right 5 times, the test light should get dimmer and dimmer, then go out. Push and hold the button to the left for more than 1 second, the test light should go to its brightest state.

Now connect the test light to the BROWN wire and perform the same test, using the thumb warmer button.

These tests confirm the proper operation of the hand and thumb warmer functions.

To conclude testing of the controller, connect the test light to the GRAY/BLACK wire coming from the controller. As the high beam button is clicked several times, the test light should go on and off alternatively.

With the test light on, push and hold the button for at least 1 second. The test light should first go out, then come back on in 10 seconds.

If these tests prove positive, do not replace the intensity controller.

Shorted or broken AC wires may cause low voltage or intermittent operation of the lights, heaters or accessories. These type problems are the most difficult to locate.

To make this task less time consuming, you might consider the following approach.

First disconnect the entire stator to isolate the ignition system and lighting coils from this procedure.

Remove the muffler and disconnect the voltage regulator to isolate it also.

Use a 12 volt battery and 5 jumper wires to power up the entire electrical system as follows.

Connect the positive terminal of the battery to the RED/BLUE and RED/YELLOW wires of the wiring harness, found near the regulator.

Connect a positive lead with a fuse installed to the YELLOW wire of the wiring harness, found in the round stator plug.

Connect the negative terminal of the battery to the YELLOW/BLACK and BLACK wires also found in the round plug.

With these connections made, the entire electrical system should be fully operational without running the engine.

Inoperative utilities would indicate an open circuit. A blown test fuse would indicate a short circuit.

It may be necessary to tug or wiggle at the wiring harness near suspected areas to locate a problem.

Common areas to suspect are any place where the harness passes a sharp, hot or rotating part of the machine.

Low voltage may also be caused by **over aggressive heating elements**.

The elements may also require investigation if their output is insufficient.

To test the handle bar heating elements, locate their connector block above and behind the air box.

Unplug it from the wiring harness.

Connect an ohm-meter to the RED/YELLOW wire and the ORANGE wire. The combined resistance of the 2 elements should be 4.8 ohms (± 1). Also check to be sure there is no continuity between either wire and the handle pole assembly.

To test thumb warmer resistance, unplug the connector.

Connect an ohm-meter to the YELLOW/BLACK and BROWN wires. The resistance should be 72 ohms (± 10).

To further test the operation of the heaters and the intensity controller, a voltage drop test may be performed.

Reassemble all wire connections.

Connect the positive lead of a DC voltmeter to the RED/YELLOW wire using a probe.

Connect the negative lead to the ORANGE wire (hand warmers) or the BROWN wire (thumb warmer) and start the engine.

At 1800 rpm, with the headlight on low beam, operate the controller buttons and look for the approximate voltages shown below.

HAND WARMER		THUMB WARMER	
Position	Voltage	Position	Voltage
off	0	off	0
1 click	3.5	1 click	4
2 clicks	4.75	2 clicks	5.5
3 clicks	6	3 clicks	7
4 clicks	7.5	4 clicks	8.5
5 clicks	8.75	5 clicks	10

Conclusion

Remember that the intent of these instructions are to familiarize technicians with the new systems found on the 1998 MACH Z excluding ignition, DESS and traditional accessories or utilities. To diagnose instrument problems or taillight problems, refer to appropriate *Shop Manual*.

If you have any questions, comments or input regarding this material, please contact a service representative through the dealer technical assistance line.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-15**

Date: February 18, 1998

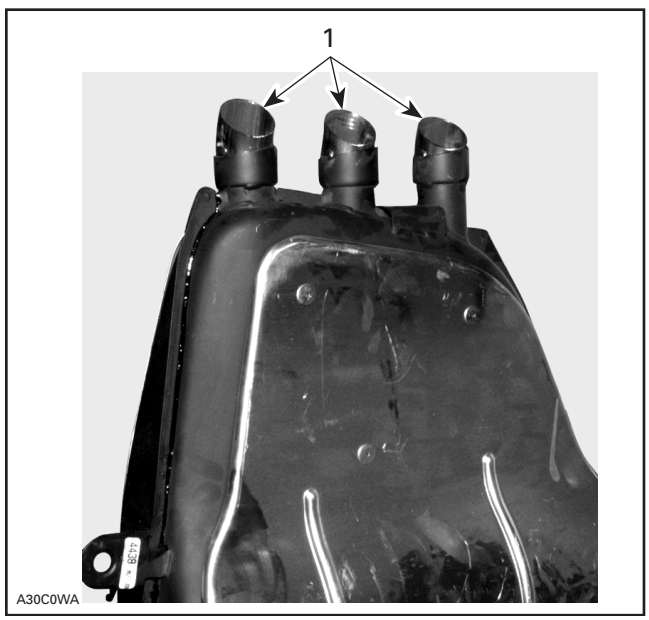
SUBJECT: Exhaust Outlet for CK3

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	MACH Z MACH Z R MACH Z LT MACH Z LT SV Track MACH Z LT R	1200/1312/1290 1294/1313 1302/1315/1308 1303/1316 1304/1317	All
1998	MACH 1 MACH 1 R	1202/1311/1203 1295/1314	All
1998	FORMULA III 600 FORMULA III 600 R FORMULA III 600 LT	1334/1335 1332/1333 1206/1207	All
1998	FORMULA III 700 FORMULA III 700 R	1208/1209 1296/1297	All
1998	GRAND TOURING SE	1210/1319/1217	All
1998	GRAND TOURING 700	1211/1318/1212	All

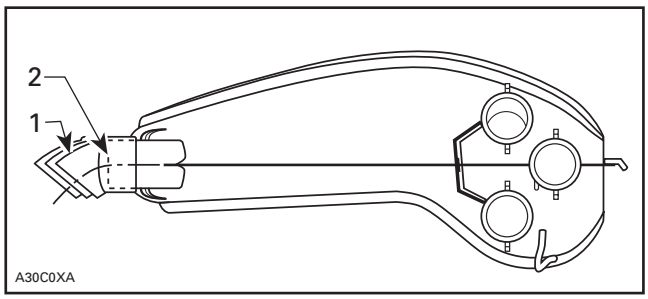
If owners of above mentioned vehicles complain about being bothered by the exhaust smell, a deflector could be welded to the existing tail pipe in order to deviate the actual exhaust flow.

Make three 15 mm (19/32 in.) length welds.

Refer to following photo and illustration for installation procedure.



1. Welded deflectors



1. Deflectors positioned downward
2. Must have contact between tail pipe and deflector

PARTS REQUIRED

DESCRIPTION	P/N	QTY
Deflector	514 052 888	3

Order parts through normal channel.

WARRANTY

Normal warranty applies; job code is 0191.

Please update *Warranty Guide*.

For claiming procedure, refer to the *Dealer Warranty Guide*.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-16**

Date: March 11, 1998

SUBJECT: Vehicle Storage Procedure

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	All	All	All

During the summer months or when a vehicle is not being used for more than one month is when proper storage is a necessity.

GENERAL INSPECTION

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

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

Any worn, broken or damaged parts should be replaced at this time.

LUBRICATION

◆ WARNING

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

Steering and Front Suspension

Lubricate the steering mechanism. Inspect all components for tightness.

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

Apply synthetic grease (P/N 413 711 500) on stabilizer sliders, if so equipped.

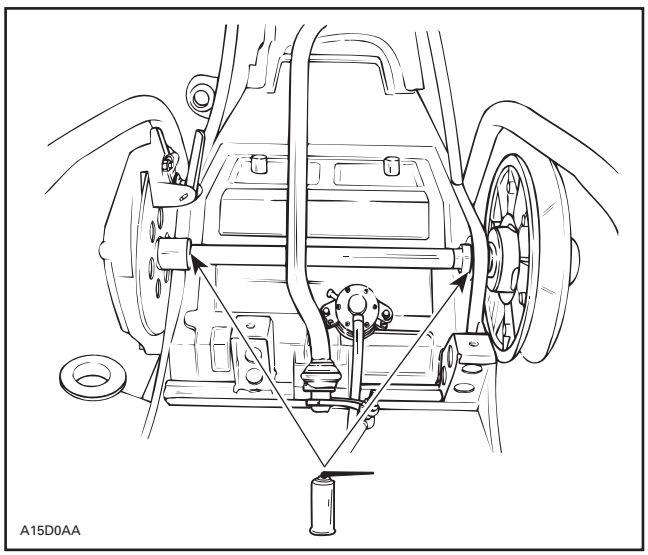
Lubricate front suspension posts and pivot arms at grease fittings.

◆ WARNING

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

Countershaft and Brake System

For proper operation, brake disc and driven pulley must slide freely on countershaft. Lubricate sparingly using anti-seize lubricant (P/N 413 701 000).



TYPICAL

▼ CAUTION

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

Rear Suspension and Drive Axle

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

Lubricate end housing bearing on drive axle with low temperature grease (P/N 413 706 100).

Lubricate remaining recommended lubrication points. Refer to the appropriate *1998 Shop Manual,* section 01.

Coat all electrical connections and switches with silicone dielectric grease (P/N 413 7017 00). If unavailable, use petroleum jelly.

TRACK

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

FUEL SYSTEM

With the new fuel additives, it is critical to use the fuel stabilizer (Sta-Bil®) (P/N 413 4086 00) (250 mL) to prevent fuel deterioration, gum formation and fuel system components corrosion. Follow instructions on product container.

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

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

Do not drain fuel system.

ENGINE

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

To perform the storage procedures proceed as follows:

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

◆ WARNING

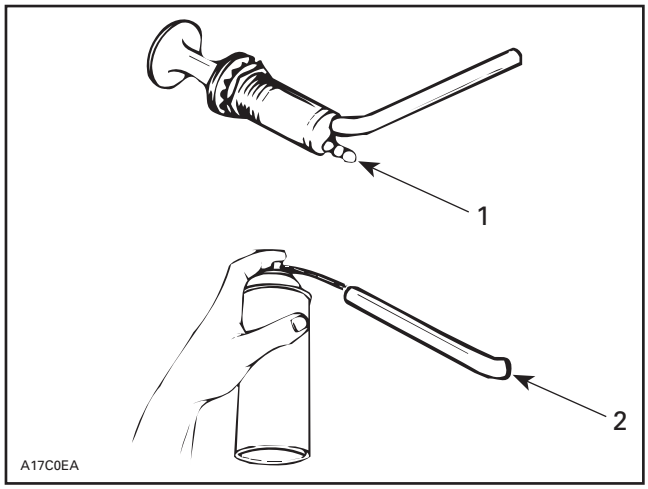
Ensure the track is free of all particles which could be thrown out while it is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no one is standing in close proximity to the vehicle.

– Stop the engine.

Models Equipped with a Primer

– To prevent fuel from draining, primer button should be pushed all the way in.

– Disconnect the primer outlet hose from the primer valve (straight coupling).



1. Straight coupling
2. To intake manifold

– Insert storage oil (P/N 496 0141 00) nozzle into primer outlet hose.

Models Equipped with a Choke

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

Refer to the appropriate *1998 Shop Manual,* section 01.

All Models

– Restart engine and run at idle speed.

– Inject storage oil until the engine stalls or until approximately half a can has entered the engine.

– With the engine stopped, remove the spark plug(s) and spray storage oil into each cylinder.

– Crank slowly 2 or 3 revolutions to lubricate cylinder(s).

– Reinstall the spark plugs.

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

Mini Z Model

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

Refer to *1998 MINI Z Shop Manual* (P/N 484 0693 00) for proper oil change procedure.

◆ WARNING

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

DRIVE AND DRIVEN PULLEYS

Remove belt guard and slip off drive belt.

Spray antirust product on pulleys.

LIQUID COOLING SYSTEM

Check coolant level in coolant tank.

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

BATTERY (IF APPLICABLE)

The battery should be removed from snowmobile for storage period.

▼ CAUTION

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

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

◆ WARNING

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

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

◆ WARNING

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

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

▼ CAUTION

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

Coat battery posts with silicone dielectric grease (P/N 413 7017 00) or petroleum jelly.

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

TRANSMISSION/CHAINCASE

Drain then refill with proper amount of Bombardier chaincase oil.

TRANSMISSION/CHAINCASE OIL TYPE	
Bombardier Synthetic Oil (P/N 413 8033 00) (12 x 355 mL)	Bombardier Mineral Oil (P/N 413 8019 00) (16 x 250 mL)
All models with liquid cooled engine and all Skandic WT models.	All models with fan cooled engine, except Skandic WT models.

▼ CAUTION

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

BODY CARE

Fabrics

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

▼ CAUTION

Do not use other types of fabrics on windshield and hood to avoid damaging further surfaces to clean.

▼ CAUTION

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

Cleaning Products

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

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

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

NOTE: Apply wax on glossy finish only.

FINAL STEPS

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

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

▼ CAUTION

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

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **98-13**

Date: May 15, 1998

SUBJECT: Specification Update

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1998	All	All	All

This *bulletin* updates and supersedes all service publications for the 1998 models concerning carburetor calibration, drive and driven pulleys.

Please correct all involved publications *(Shop Manual*, *Predelivery Bulletins*, *Specification Booklet, Racing Handbook)* accordingly.

CARBURETOR CALIBRATION

MIKUNI
CARBURETOR CALIBRATION
BOMBARDIER MODELS 1998

ENGINE	#BOMBARDIER	MODEL	CARBURETOR		IDLE ± 0.2	R.P.M. ± 200	M.J.	J.N.	C.A.	P.J.	A.S. ± 1/16	V.S.	N.J.	S.J.	FLOAT LEVEL ± 1
277	403-1373	Tundra II LT, Tundra R	VM34-508		1.3	1200	190	6DH4-2	2.5	40	1.0	1.5	O-8 (159)	N.A.	23.9
377	403-1339	Skandic 380, Formula S Formula SE, Touring E LT	VM30-193 VM30-193	PTO MAG	1.3	1650	140	6DP9-3	2.5	40	1.25	1.5	P-0 (159)	1.2	23.9
443	403-1353 403-1354	MX Z 440	VM34-509 VM34-510	PTO MAG	1.5 1.5	1650 1650	205 195	6DH2-3 6DH2-3	2.5 2.5	35 35	[1.5] [1.5]	1.5 1.5	P-0 (159) P-0 (159)	1.2 1.2	23.9 23.9
443	403-1351 403-1352	Touring LE	VM34- 511 VM34-512	PTO MAG	1.5 1.5	1650 1650	200 190	6DH2-3 6DH2-3	2.5 2.5	35 35	[1.5] [1.5]	1.5 1.5	P-0 (159) P-0 (159)	1.2 1.2	23.9 23.9
454	403-1374	MX Z x 440 LC	VM34-523 VM34-523	PTO MAG	1.8	1700	260	6FJ43-2	2.5	50	[1.0]	1.5 (V)	Q-0 (159)	N.A.	23.9
494	403-1340 403-134	Formula 500 Formula 500 DELUXE	VM38- 378 VM38-379	PTO MAG	1.8 1.8	1800 1800	300 280	6DGY9-2 6DGY9-2	2.5 2.5	50 50	[2.0] [2.0]	1.5 (V) 1.5 (V)	Q-3 (480) Q-3 (480)	N.A. N.A.	18.1 18.1
494	403-1344 403-1345	MX Z 500	VM38-380 VM38-381	PTO MAG	1.8 1.8	1800 1800	300 280	6DGY9-3 6DGY9-3	2.5 2.5	50 50	[2.5] [2.5]	1.5 (V) 1.5 (V)	Q-4 (480) Q-4 (480)	N.A. N.A.	18.1 18.1
494	403-1342 403-1343	Grand Touring 500	VM38-382 VM38-383	PTO MAG	1.8 1.8	1800 1800	300 280	6DGY9-2 6DGY9-2	2.5 2.5	50 50	[2.0] [2.0]	1.5 (V) 1.5 (V)	Q-3 (480) Q-3 (480)	N.A. N.A.	18.1 18.1
494	403-1348 403-1349	Summit 500 (HAC)	VM38-384 VM38-385	PTO MAG	2.2 2.2	1800 1800	350 330	6DHY48-4 6DHY48-4	2.5 2.5	75 75	[2,0] [2.0]	1.5 (V) 1.5 (V)	Q-6 (480) Q-6 (480)	N.A. N.A.	18.1 18.1
494	19045 19044	Skandic WT LC	VM34-519 VM34-520	PTO MAG	1.5 1.5	1900 1900	250 220	6DH4-2 6DH4-2	2.5 2.5	30 30	1.0 1.0	1.5 (V) 1.5 (V)	P-2 (159) P-2 (159)	1.5 1.5	36.5 36.5
503	403-1357 403-1358	Skandic 500, Touring SLE Formula SL	VM34-513 VM34-514	PTO MAG	1.5 1.5	1650 1650	180 170	6DH2-3 6DH2-3	2.5 2.5	40 40	[1.875] [1.875]	1.5 1.5	P-0 (159) P-0 (159)	1.5 1.5	23.9 23.9
503	19028	Skandic WT	VM34-515		1.5	1650	210	6DH2-3	2.5	40	1.5	1.5 (V)	P-4 (159)	1.5	36.5
503	19039	Skandic Super WT	VM32-???		1.5	1650	230	6DH8-4	3.0	25	1.5	1.5	O-0 (159)	1.5	23.9
583	403-1359 403-1360	Formula 583 DL Grand Touring 583	VM38-386 VM38-387	PTO MAG	2.0 2.0	1800 1800	270 260	6DEY4-2 6DEY4-2	2.5 2.5	50 50	[2.0] [2.0]	1.5 (V) 1.5 (V)	P-7 (480) P-7 (480)	N.A. N.A.	18.1 18.1
583	403-1361 403-1362	Formula Z	VM40-97 VM40-98	PTO MAG	2.0 2.0	1800 1800	280 260	7ECY1-3 7ECY1-3	2.5 2.5	60 60	[2.0] [2.0]	1.5 (V) 1.5 (V)	AA-2 (224) AA-2 (224)	N.A. N.A.	18.1 18.1
583	403-1363 403-1364	MX Z 583	VM40-99 VM40-100	PTO MAG	2.0 2.0	1800 1800	280 260	7ECY1-3 7ECY1-3	2.5 2.5	60 60	[2.0] [2.0]	1.5 (V) 1.5 (V)	AA-2 (224) AA-2 (224)	N.A. N.A.	18.1 18.1
583	403-1365 403-1366	Summit 583 (HAC)	VM38-388 VM38-389	PTO MAG	2.3 2.3	1800 1800	330 320	6FEY1-2 6FEY1-2	2.5 2.5	75 75	[1.5] [1.5]	1.5 (V) 1.5 (V)	P-8 (480) P-8 (480)	N.A. N.A.	18.1 18.1
599	403-1327	Formula III Formula III LT	VM36-184		1.2	1800	290	6DEY4-3	2.5	50	[2.0]	1,5 (V)	P-0 (286)	1.6	18.1
670	403-1367 403-1368	MX Z 670 Formula Z 670	VM40-101 VM40-102	PTO MAG	2.1 2.1	1700 1700	310 290	7EDY1-3 7EDY1-3	2.5 2.5	60 60	[2.25] [2.25]	1.5 (V) 1.5 (V)	AA-3 (224) AA-3 (224)	N.A. N.A.	18.1 18.1
670	403-1369 403-1370	Summit 670 (HAC)	VM40-103 VM40-104	PTO MAG	2.3 2.3	1900 1900	380 370	7DPI1-3 7DPI1-3	2.5 2.5	75 75	[2.25] [2.25]	1.5 (V) 1.5 (V)	AA-2 (224) AA-2 (224)	N.A. N.A.	18.1 18.1
670	403-1376 403-1377	Summit x 670 (HAC)	VM44-34 VM44-35	PTO MAG	2.4 2.4	1700 1700	350 340	7ECY1-2 7ECY1-2	2.5 2.5	55 55	[2.25] [2.25]	1.5 (V) 1.5 (V)	AA-8 (224) AA-8 (224)	N.A. N.A.	18.1 18.1
699	403-1321	Grand Touring SE (DPM)	VM38-390 VM38-390 VM38-390	PTO CEN MAG	1.2	1800	300	6DEY2-3	2.5	50	[2.5]	1.5 (V)	P-9 (480)	N.A.	18.1
699	403-1324	Mach 1	VM38-393		1.2	1800	300	6DEY2-3	2.5	50	[2.0]	1.5 (V)	P-9 (480)	1.5	18.1
699	403-1330 403-1331	Formula III 700 GT 700	VM38-396 VM38-396 VM38-397	PTO MAG CEN	1.2 1.2 1.2	1800 1800 1800	310 310 300	6DEH5-3 6DEH5-3 6DEH5-3	2.5 2.5 2.5	50 50 50	[2.5] [2.5] [2.5]	1.5 (V) 1.5 (V) 1.5 (V)	P-1 (480) P-1 (480) P-1 (480)	1.5 1.5 1.5	18.1 18.1 18.1
809	403-1306	Mach Z, Mach Z LT (SV track)	TM 38-C195	PTO CEN MAG	1.2 1.2 1.2	1800 1800 1800	310 320 310	8ABY1-40-2 8ABY1-40-2 8ABY1-40-2	2.0 2.0 2.0	50 50 50	[4.0] [4.0] [4.0]	1.5 (V) 1.5 (V) 1.5 (V)	O-3 (327) O-3 (327) O-3 (327)	1.5 1.5 1.5	21.0 21.0 21.0

V = VITON TYPE
[x.xx] = FINE THREAD (20°, 0.5 mm PITCH)
Color Identification: MAG: Red, CENTER: Yellow, PTO: Blue

DRIVE PULLEY

BOMBARDIER SKI-DOO — 1998 MODELS TRANSMISSION SYSTEM DEFINITION													
MODEL	ENGINE	DRIVE PULLEY											
		MODEL	PART NUMBER	TAPER	RING GEAR	GOVERNOR CUP	SLIDER	SPRING	PIN OR WEIGHT	RAMP OR BLOC	POS. CALIB. OR CAPSULE	ENGAGEMENT ± 100 RPM	MAX. SPEED ± 100 RPM
Tundra II LT	277	Powerbloc	0400-0017 417 219 700	1:10	No	Standard	N.A.	Turquoise 417 115 900	N.A.	417 114 300	417 114 500 Q'ty=2	3100	6900
Tundra R	277	Powerbloc	0400-0017 417 219 700	1:10	No	Standard	N.A.	Turquoise 417 115 900	N.A.	417 114 300	417 114 500 Q'ty=2	3100	6900
Formula S	377	Powerbloc	0400-0018 417 221 000	1:10	No	Standard	N.A.	Red/Blue 417 118 400	417 120 400 Q'ty=1	417 118 100	417 114 500 Q'ty=1	3500	6900
Formula SE	377	Powerbloc	0400-0019 417 221 100	1:10	Yes	Standard	N.A.	Red/Blue 417 118 400	417 120 400 Q'ty=1	417 118 100	417 114 500 Q'ty=1	3500	6900
Touring E	377	Powerbloc	0400-0020 417 220 900	1:10	Yes	Standard	N.A.	Green/Green 417 009 500	417 120 400 Q'ty=1	417 118 100	417 114 500 Q'ty=1	2500	6900
Skandic 380	377	Powerbloc	0400-0021 417 218 000	1:10	No	Standard	N.A.	Green/Green 417 009 500	417 120 400 Q'ty=1	417 118 100	417 114 500 Q'ty=1	2500	6900
Touring LE	443	TRA	417 217 100	1:10	Yes	Cushion drive	417 005 800 Peek	Red/Blue 414 691 500	417 004 309 Hollow	417 005 291	2	2900	7000
MX Z 440	443	TRA	417 218 900	1:10	No	Cushion drive	417 005 800 Peek	Blue/Yellow 414 689 500	417 004 309 Hollow	417 005 291	3	3700	7000
MX Z X 440 LC	454	TRA Light	417 221 200	1:7.5	No embosses	Light Cushion drive	417 005 801 Vespel	White/White 417 222 004	504 151 700 10,3 g. Threaded	417 005 293	5	5400	8500
Formula 500	494	TRA	417 217 300	1:7.5	No	Cushion drive	417 005 800 Peek	Violet/Blue 415 034 900	417 004 309 Hollow	417 005 286	2	3800	7800
Formula 500 DeLuxe	494	TRA	417 217 400	1:7.5	Yes	Cushion drive	417 005 800 Peek	Violet/Blue 415 034 900	417 004 309 Hollow	417 005 286	2	3800	7800
GT 500	494	TRA	417 217 700	1:7.5	Yes	Cushion drive	417 005 800 Peek	Blue/Green 414 817 700	417 004 309 Hollow	417 005 228	3	3600	7800
MX Z 500	494	TRA	417 220 800	1:7.5	No	Cushion drive	417 005 800 Peek	Violet/Yellow 415 015 300	417 004 309 Hollow	417 005 281	2	4100	7800
Summit 500	494	TRA	417 219 000	1:7.5	No	Cushion drive	417 005 800 Peek	Green/Blue 414 768 200	417 004 309 Hollow	417 005 285	5	4500	7800
Skandic WT LC	494	TRA	M14241	1:7.5	Yes	Cushion drive	417 005 800 Peek	Yellow/Blue 414 818 000	417 004 308 Solid	417 005 290	4	2700	7000
Formula SL	503	TRA	417 217 000	1:10	No	Cushion drive	417 005 800 Peek	Yellow/Red 414 993 000	417 004 309 Hollow	417 005 291	3	3300	7000
Skandic WT	503	TRA	M14239	1:10	Yes M8 screws	Cushion drive	417 005 800 Peek	Yellow/Orange 414 689 700	417 004 309 Hollow	4170052 90	4	2800	6800
Skandic SWT	503	TRA		1:10	Yes	Cushion drive	417 005 800 Peek	Red/Yellow 414 817 500	417 004 309 Hollow	417 005 146	4	2300	6500
Touring SLE	503	TRA	417 219 800	1:10	Yes	Cushion drive	417 005 800 Peek	Red/Yellow 414 817 500	417 004 309 Hollow	417 005 291	3	2900	7000
Skandic 500	503	TRA	417 217 900	1:10	No	Cushion drive	417 005 800 Peek	Red/Yellow 414 817 500	417 004 309 Hollow	417 005 291	3	2900	7000
Formula 583 DL	583	TRA	417 217 500	1:10	Yes	Cushion drive	417 005 800 Peek	Violet/Blue 415 034 900	417 004 309 Hollow	417 005 286	3	4100	7900
Formula Z 583	583	TRA	417 217 800	1:10	No	Cushion drive	417 005 800 Peek	Violet/Blue 415 034 900	417 004 309 Hollow	417 005 286	3	4100	7900
MX Z 583	583	TRA	417 218 800	1:10	No	Cushion drive	417 005 800 Peek	Green/Blue 414 768 200	417 004 309 Hollow	417 005 286	3	4400	7900
GT 583	583	TRA	417 217 600	1:10	Yes	Cushion drive	417 005 800 Peek	Red/Orange 415 015 200	417 004 309 Hollow	417 005 285	3	3100	7900
Summit 583	583	TRA	417 219 100	1:10	No	Cushion drive	417 005 800 Peek	Green/Blue 414 768 200	417 004 309 Hollow	417 005 285	5	4400	7900
Formula III 600	599	TRA	417 218 500	1:7.5	No	Standard	417 005 800 Peek	Violet/Blue 415 034 900	417 004 308 Solid	417 005 285	4	3800	8300
Formula III 600 R	599	TRA	416 218 500	1:7.5	No	Standard	417 005 800 Peek	Violet/Blue 415 034 900	417 004 308 Solid	417 005 285	4	3800	8300
Formula III 600 LT	599	TRA	417 218 500	1:7.5	No	Standard	417 005 800 Peek	Violet/Blue 415 034 900	417 004 308 Solid	417 005 285	4	3800	8300
Formula Z 670	670	TRA	417 218 700	1:7.5	No	Cushion drive	417 005 800 Peek	Violet/Yellow 415 015 300	417 004 308 Solid	417 005 286	3	3800	7700
MX Z 670	670	TRA	417 218 700	1:7.5	No embosses	Cushion drive	417 005 800 Peek	Violet/Yellow 415 015 300	417 004 308 Solid	417 005 286	3	3800	7700
Summit 670	670	TRA	417 219 200	1:7.5	No	Cushion drive	417 005 800 Peek	Violet/Yellow 415 015 300	417 004 309 Hollow	417 005 286	5	4100	7700
Summit x 670	670	TRA	417 222 000	1:7.5	No	Cushion drive	417 005 800 Peek	Violet/Yellow 415 015 300	417 004 309 Hollow	417 005 287	5	4100	8000
Mach 1	699	TRA	417 218 400	1:7.5	No	Standard	417 005 801 Vespel	Green/Violet 414 762 800	417 004 308 Solid	417 005 286	2	4200	8300
Mach 1 R	699	TRA	417 218 400	1:7.5	No	Standard	417 005 801 Vespel	Green/Violet 414 762 800	417 004 308 Solid	417 005 286	2	4200	8300
Formula III 700	699	TRA	417 218 300	1:7.5	No	Standard	417 005 800 Peek	Green/Blue 414 768 200	417 004 308 Solid	417 005 286	3	4200	7900
Formula III 700 R	699	TRA	417 218 300	1:7.5	No	Standard	417 005 800 Peek	Green/Blue 414 768 200	417 004 308 Solid	417 005 286	3	4200	7900
GT 700	699	TRA	417 218 100	1:7.5	Yes	Standard	417 005 800 Peek	Blue/Violet 414 817 800	417 004 308 Solid	417 005 286	3	3600	7900
GT SE	699	TRA	417 218 200	1:7.5	Yes	Standard	417 005 801 Vespel	Blue/Pink 414 916 300	417 004 308 Solid	417 005 286	2	3600	8500
Mach Z	809	TRA	417 215 600	1:7.5	No	Standard	417 005 801 Vespel	Blue/Orange 414 639 000	417 004 308 Solid	417 005 286	2	3600	8300
Mach Z R	809	TRA	417 215 600	1:7.5	No	Standard	417 005 801 Vespel	Blue/Orange 414 639 000	417 004 308 Solid	417 005 286	2	3600	8300
Mach Z LT	809	TRA	417 215 600	1:7.5	No	Standard	417 005 801 Vespel	Blue/Orange 414 639 000	417 004 308 Solid	417 005 286	2	3600	8300
Mach Z LT R	809	TRA	417 215 600	1:7.5	No	Standard	417 005 801 Vespel	Blue/Orange 414 639 00	417 004 308 Solid	417 005 286	2	3600	8300
Mach Z LT (SV track)	809	TRA	417 215 600	1:7.5	No	Standard	417 005 801 Vespel	Blue/Orange 414 639 000	417 004 308 Solid	417 005 286	2	3600	8300

DRIVEN PULLEY

BOMBARDIER SKI-DOO — 1998 MODELS
TRANSMISSION SYSTEM DEFINITION

MODEL	ENGINE	BELT	DRIVEN PULLEY						CARTER			SPROCKET
			MODEL	SPRING	PRELOAD NEW/AFTER BREAK-IN PERIOD (± 0.7 KG)	CAM (°)	AERODYN. COVERS	BIG BUSHING WIDTH	SPROCKET TOP	SPROCKET BOTTOM	CHAIN LINK	
Tundra II LT	277	414 827 600	Safari	WHITE	3.6	37.8	N.A.	N.A.	14	25	62 Simple	
Tundra R	277	414 827 600	Safari Reverse	YELLOW New	0.0 Position 3	37.8 New	N.A.	N.A.	14	25	62 Simple	
Formula S	377	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	21	44	72 11 wide	9 teeth 179 mm
Formula SE	377	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	21	44	72 11 wide	9 teeth 179 mm
Touring E	377	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	18	44	70 11 wide	9 teeth 179 mm
Skandic 380	377	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	18	44	70 11 wide	9 teeth 179 mm
Touring LE	443	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	21	44	72 11 wide	9 teeth 179 mm
MX Z 440	443	415 060 600	Mach Z	ORANGE	6.1	47	No	25 mm	22	44	72 11 wide	9 teeth 179 mm
MX Z X 440 LC	454	414 860 700	MX Z X Roller	BEIGE	7.9/7.0	44-40 Anodized	No No embosses	19 mm Crimped	21 Steel	43 Light	72 13 wide	9 teeth 179 mm
Formula 500	494	414 860 700	Formula	BEIGE	7.9/7.0	50	No	19 mm	23	43 Light	72 11 wide	9 teeth 179 mm
Formula 500 DeLuxe	494	414 860 700	Formula	BEIGE	7.9/7.0	50	No	19 mm	23	44	72 11 wide	9 teeth 179 mm
GT 500	494	414 860 700	Formula	BEIGE	7.9/7.0	44	No	19 mm	23	44	72 11 wide	9 teeth 179 mm
MX Z 500	494	414 860 700	Formula	BEIGE	7.9/7.0	50	No	19 mm	23	43 Light	72 13 wide	9 teeth 179 mm
Summit 500	494	414 860 700	Formula	BEIGE	7.9/7.0	47	No	19 mm	22	43 Light	72 11 wide	9 teeth 179 mm
Skandic WT LC	494	414 633 800	IBC Snob 0025	BLUE	7.0	40	N.A.	N.A.	N.A.	N.A.	N.A.	
Formula SL	503	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	22	44	72 11 wide	9 teeth 179 mm
Skandic WT	503	414 633 800	IBC Snob 0025	BLUE	7.0	40	N.A.	N.A.	N.A.	N.A.	N.A.	
Skandic SWT	503	414 633 800	IBC Snob 0024	BLUE	6.0	40	N.A.	N.A.	N.A.	N.A.	N.A.	
Touring SLE	503	415 060 600	LPV27 New	YELLOW New	0.0 Position 3	47-44 New	No	19 mm New	21	44	72 11 wide	9 teeth 179 mm
Skandic 500	503	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	21	44	72 11 wide	9 teeth 179 mm
Skandic 500 Europe	503	415 060 600	Mach Z	ORANGE	4.8	44	No	25 mm	18	44	70 11 wide	9 teeth 179 mm
Formula 583 DL	583	414 860 700	Formula	BEIGE	7.9/7.0	50	No	19 mm	25	44	74 13 wide	9 teeth 179 mm
Formula Z 583	583	414 860 700	Formula	BEIGE	7.9/7.0	50	No	19 mm	25	43 Light	74 13 wide	9 teeth 179 mm
MX Z 583	583	414 860 700	Formula	BEIGE	7.9/7.0	50	Yes	19 mm	25	43 Light	74 13 wide	9 teeth 179 mm
GT 583	583	414 860 700	Formula	BEIGE	7.9/7.0	47	No	19 mm	23	44	72 13 wide	9 teeth 179 mm
Summit 583	583	415 099 000	Formula	BEIGE	7.9/7.0	50	No	19 mm	22	43 Light	72 13 wide	9 teeth 179 mm
Formula III 600	599	415 045 000	CK3	BEIGE	7.9/7.0	50	Yes	25 mm	25	43 Light	72 13 wide	9 teeth 179 mm
Formula III 600 R	599	415 045 000	CK3	BEIGE	7.9/7.0	50	Yes	25 mm	25	44	72 13 wide	9 teeth 179 mm
Formula III 600 LT	599	415 045 000	CK3	BEIGE	7.9/7.0	50	No	25 mm	23	43 Light	72 13 wide	9 teeth 179 mm
Formula Z 670	670	415 099 000	Formula	BEIGE	7.9/7.0	50	No	19 mm	26	43 Light	74 13 wide	9 teeth 179 mm
MX Z 670	670	415 106 300	Formula	BEIGE	7.9/7.0	50	Yes	19 mm	26	43 Light	74 13 wide	9 teeth 179 mm
Summit 670	670	415 099 000	Formula	BEIGE	7.9/7.0	50	No	19 mm	23	43 Light	72 13 wide	8 teeth 159 mm
Summit 670 Europe	670	415 099 000	Formula	BEIGE	7.9/7.0	50	No	19 mm	23	43 Light	72 13 wide	9 teeth 179 mm
Summit x 670	670	415 099 000	Formula	BEIGE	7.9/7.0	47	No	19 mm	21 Steel	43 Light	72 13 wide	9 teeth 176 mm
Mach 1	699	415 045 000	CK3	BEIGE	7.9/7.0	50-47	Yes	25 mm	26	43 Light	72 13 wide	9 teeth 179 mm
Mach 1 R	699	415 045 000	CK3	BEIGE	7.9/7.0	50-47	Yes	25 mm	26	44	74 13 wide	9 teeth 179 mm
Formula III 700	699	415 045 000	CK3	BEIGE	7.9/7.0	50	Yes	25 mm	26	43 Light	72 13 wide	9 teeth 179 mm
FOrmula III 700 R	699	415 045 000	CK3	BEIGE	7.9/7.0	50	Yes	25 mm	26	44	74 13 wide	9 teeth 179 mm
GT 700	699	415 045 000	CK3	BEIGE	7.9/7.0	47	No	25 mm	24	44	72 13 wide	9 teeth 179 mm
GT SE	699	415 045 000	CK3	BEIGE	7.9/7.0	47	No	25 mm	24	44	72 13 wide	9 teeth 179 mm
Mach Z	809	415 045 000	CK3	BEIGE	7.9/7.0	50-47	Yes	25 mm	27	43 Light	72 13 wide	9 teeth 179 mm
Mach Z R	809	415 045 000	CK3	BEIGE	7.9/7.0	50-47	Yes	25 mm	27	44	74 13 wide	9 teeth 179 mm
Mach Z LT	809	415 045 000	CK3	BEIGE	7.9/7.0	50-47	No	25 mm	25	43 Light	72 13 wide	9 teeth 179 mm
Mach Z LT R	809	415 045 000	CK3	BEIGE	7.9/7.0	50-47	No	25 mm	25	44	72 13 wide	9 teeth 179 mm
Mach Z LT (SV track)	809	415 045 000	CK3	BEIGE	7.9/7.0	50-47	No	25 mm	23	43 Light	72 13 wide	8 teeth 159 mm