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SNOWMOBILES

S

SERVICE Bulletin

No. **96-1**

Date: June 16, 1996

SUBJECT: 1996 Shop Manual

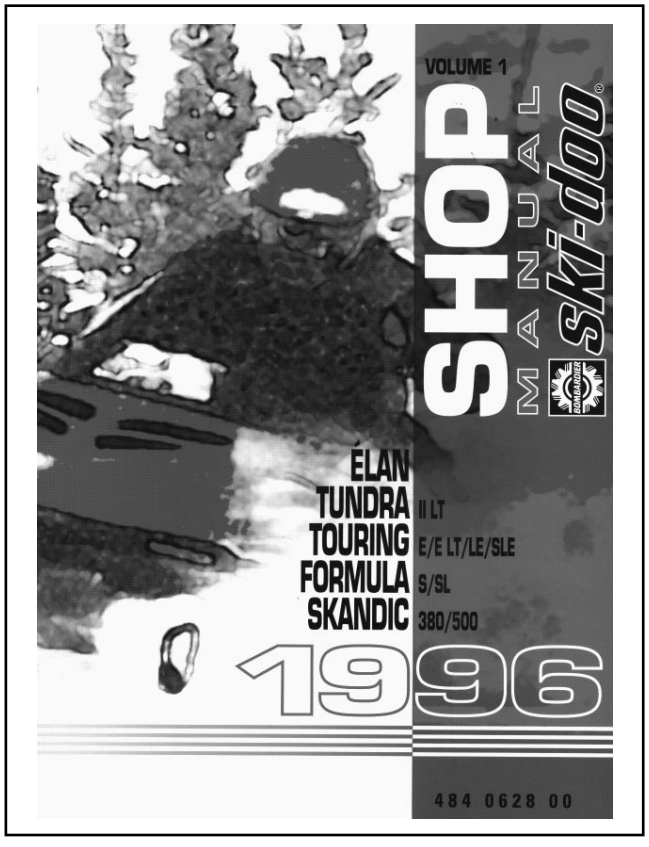
YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	ALL	ALL	ALL

The *1996 Shop Manual* will be delivered in 3 volumes. They will be automatically shipped to dealers.

Volume 1 (P/N 484 0628 00) covers repair procedure for:

Élan
Tundra II LT
Touring E/E LT/LE/SLE
Skandic 380/500
Formula S/SL

Shop Manual Volume 1 is presently at press.



Volume 2 covers repair procedures for:

Grand Touring 500/580/SE
Formula SLS
Formula STX/STX LT
Summit 500
Mach 1

Volume 3 covers repair procedures for:

MX Z 440/583
Formula Z/SS
Formula III/III LT
Summit 583/670
Mach Z/Z LT
Skandic WT

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SERVICE Bulletin

No. **96-2**

REVISION 1

Date : May 27, 1996

SUBJECT : Spring Chart

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	ALL (Except utility models)	ALL	ALL

This bulletin is divided into 2 main sections.

Section 1, Spring Applications

Is a quick reference chart which provides authorized spring applications per 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

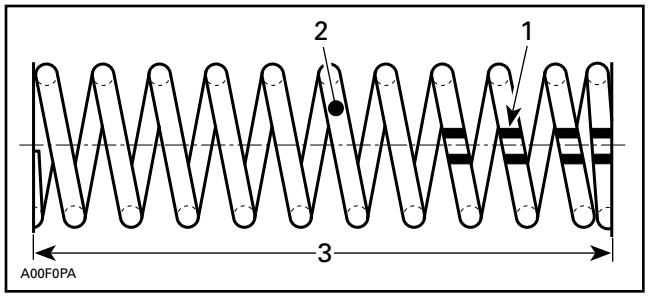
Refers to spring specifications.

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.

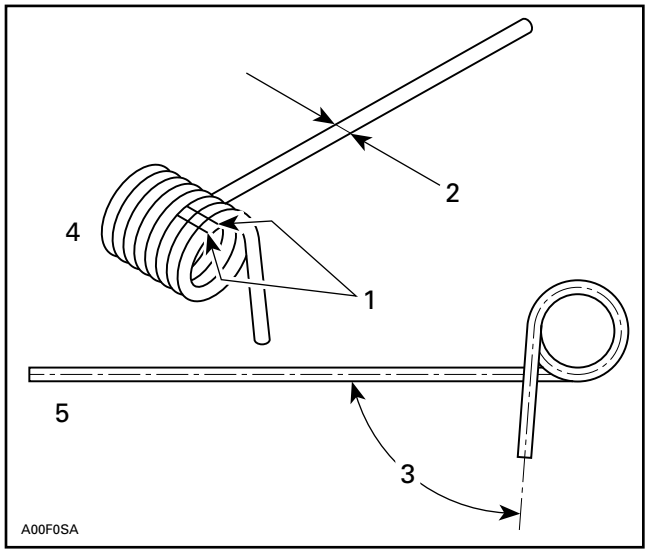
COIL SPRINGS (Compression)

Type R (Straight on Both Ends)



1. *Color Code Stripes*
2. *Wire Diameter*
3. *Free Length*

TORSION SPRINGS

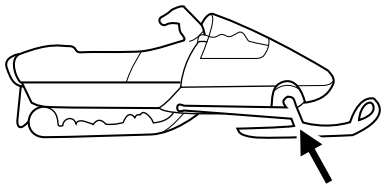


1. *Color Code Stripes*
2. *Wire Diameter*
3. *Opening Angle (°)*
4. *Left Hand (LH)*
5. *Right Hand (RH)*

SECTION 1

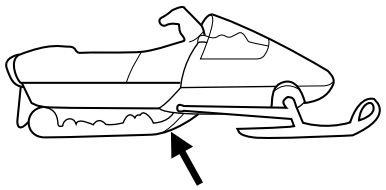
SPRING APPLICATIONS

FRONT SPRINGS



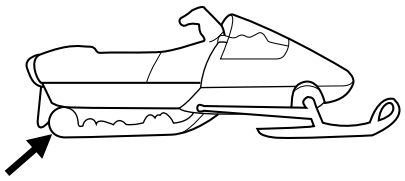
MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	414 9744 00	**414 9565 00**	414 9761 00
MACH Z LT	414 9744 00	**414 9565 00**	414 9761 00
MACH 1	414 9744 00	**414 9565 00**	414 9761 00
FORMULA III	414 9744 00	**414 9564 00**	414 9761 00
FORMULA III LT	414 9744 00	**414 9564 00**	414 9761 00
FORMULA Z	414 9281 00	**414 9761 00**	415 0397 00
FORMULA SS	414 9281 00	**414 9761 00**	415 0397 00
FORMULA STX	414 8951 00	**414 9561 00**	415 0397 00
FORMULA STX LT	414 8951 00	**414 9561 00**	415 0397 00
FORMULA SLS	414 8951 00	**414 9561 00**	415 0397 00
FORMULA SL	414 8951 00	**414 9561 00**	415 0397 00
FORMULA S	414 8951 00	**414 9560 00**	415 0397 00
MX-Z 670	414 9744 00	**414 9563 00**	414 9761 00
MX-Z 583	414 9744 00	**414 9560 00**	414 9761 00
MX-Z 440	414 9744 00	**414 9560 00**	414 9761 00
SUMMIT 670	414 9168 00	**414 9686 00**	415 0396 00
SUMMIT 583	414 9168 00	**414 9686 00**	415 0396 00
SUMMIT 500	414 9168 00	**414 9686 00**	415 0396 00
GRAND TOURING SE	414 9744 00	**414 9568 00**	414 9761 00
GRAND TOURING 580	414 8951 00	**414 9559 00**	415 0397 00
GRAND TOURING 500	414 8951 00	**414 9559 00**	415 0397 00
TOURING SLE	414 8951 00	**414 9560 00**	415 0397 00
TOURING LE	414 8951 00	**414 9560 00**	415 0397 00
TOURING ELT	414 8951 00	**414 9560 00**	415 0397 00
TOURING E	414 8951 00	**414 9560 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

CENTER SPRINGS



MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	414 9760 00	**414 8778 00**	415 0137 00
MACH Z LT	414 8778 00	**415 0137 00**	415 0401 00
MACH 1	414 9760 00	**414 8778 00**	415 0137 00
FORMULA III	414 9760 00	**414 8778 00**	415 0137 00
FORMULA III LT	414 8778 00	**415 0137 00**	415 0401 00
FORMULA Z	414 9293 00	**415 0129 00**	415 0398 00
FORMULA SS	414 9293 00	**415 0129 00**	415 0398 00
FORMULA STX	414 9168 00	**414 9562 00**	414 9760 00
FORMULA STX LT	414 9562 00	**414 9760 00**	415 0399 00
FORMULA SLS	414 9168 00	**414 9562 00**	414 9760 00
FORMULA SL	Not Applicable	**414 9744 00**	414 9745 00
FORMULA S	Not Applicable	**414 9744 00**	414 9745 00
MX-Z 670	Not Applicable	**414 8951 00**	415 0400 00
MX-Z 583	Not Applicable	**414 8951 00**	415 0400 00
MX-Z 440	Not Applicable	**414 8951 00**	415 0400 00
SUMMIT 670	414 9562 00	**414 9760 00**	415 0399 00
SUMMIT 583	414 9562 00	**414 9760 00**	415 0399 00
SUMMIT 500	414 9562 00	**414 9760 00**	415 0399 00
GRAND TOURING SE	414 8778 00	**415 0137 00**	415 0401 00
GRAND TOURING 580	414 9562 00	**414 9760 00**	415 0399 00
GRAND TOURING 500	414 9562 00	**414 9760 00**	415 0399 00
TOURING SLE	414 9744 00	**414 9745 00**	414 7977 00
TOURING LE	414 9744 00	**414 9745 00**	414 7977 00
TOURING ELT	414 9744 00	**414 9745 00**	414 7977 00
TOURING E	Not Applicable	**414 9744 00**	414 9745 00
SKANDIC 500	414 9745 00	**414 9745 00**	414 7977 00
SKANDIC 380	414 9745 00	**414 9745 00**	414 7977 00

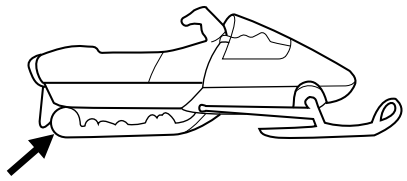
REAR SPRINGS



MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
FORMULA Z	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 SS	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 STX	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 STX 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 SLS	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
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 440	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 580	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 500	414 9436 00 LH 414 9435 00 RH	**415 0106 00 LH** **415 0105 00 RH**	414 9443 00 LH 414 9442 00 RH
TOURING SLE	414 8663 00 LH 414 8662 00 RH	**414 9436 00 LH** **414 9435 00 RH**	415 0106 00 LH 415 0105 00 RH
TOURING LE	414 8663 00 LH 414 8662 00 RH	**414 9436 00 LH** **414 9435 00 RH**	415 0106 00 LH 415 0105 00 RH
TOURING ELT	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

REAR SPRINGS



MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
TOURING E	Not Applicable	**414 8663 00 LH** **414 8662 00 RH**	414 9436 00 LH 414 9435 00 RH
SKANDIC 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
SKANDIC 380	414 8663 00 LH 414 8662 00 RH	**414 9436 00 LH** **414 9435 00 RH**	415 0106 00 LH 415 0105 00 RH
MACH Z	414 8091 00	**415 0145 00**	415 0144 00
MACH Z LT	414 8091 00	**415 0145 00**	415 0144 00
MACH 1	414 8091 00	**415 0145 00**	415 0144 00
FORMULA III	414 8715 00	**415 0139 00**	415 0144 00
FORMULA III LT	414 8715 00	**415 0139 00**	415 0144 00
GRAND TOURING SE	414 9271 00	**415 0138 00**	415 0144 00

LH= Left Hand RH=Right Hand

SECTION 2

SPRING SPECIFICATIONS

COIL SPRINGS SPECIFICATIONS

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	BLACK
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
414 9402 00	R	140 ± 7	223	7.77	WH/GN	BLACK

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

COIL SPRINGS SPECIFICATIONS

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
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	7.60	4 Green lines	BLACK
415 0207 00	R	150	203.2	7.96	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
415 0385 00	R	100	265	7.14	SI/GD	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

COIL SPRINGS SPECIFICATIONS

P/N	TYPE	SPRING RATE (lbs/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
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	260	8.71	RD/GD	BLACK
415 0582 00	R	115	270	7.92	N/A	BLACK
503 1007 00	R	65	290	6.35	BL/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

TORSION SPRINGS SPECIFICATIONS

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 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

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

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SNOWMOBILES

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SERVICE Bulletin

No. **96-3**

Date : August 18, 1995

SUBJECT : Cylinder Height

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1995	SUMMIT 1 st series	3838 and 3839	ALL
1994	MACH 1	3863 and 3880	ALL
1994	GRAND TOURING SE	3866	ALL

Different cylinder heights exist for the 670 type engines.

Do not use the replacement cylinder P / N 420 9231 95 on the 1st series of the 1995 (1994 1/2) Summit or any 1994 and older 670 type engines, without first checking the cylinder height.

For older 670 type engines the superseded cylinder P / N 420 9291 93 with the correct height is now available.

Specifications	
P / N	Height + 0.1 mm (0.004 in)
420 9135 27 original (old) number 420 9291 93 superseded (new) number	121.5 mm (4.783 in)
420 9231 95 newer cylinder	121.3 mm (4.776 in)

Cylinder P / N 420 9231 95 is the cylinder used on the 2nd series 1995 Summit 670, the 1995 Formula SS and 1995 Grand Touring SE.

Cylinder height is determined by measuring from the base gasket surface to the top of the cylinder liner (A) (not the cylinder water jacket casting). Refer to the following illustration.

A00C43A

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SNOWMOBILES

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SERVICE Bulletin

No. **96-4**

Revision 1

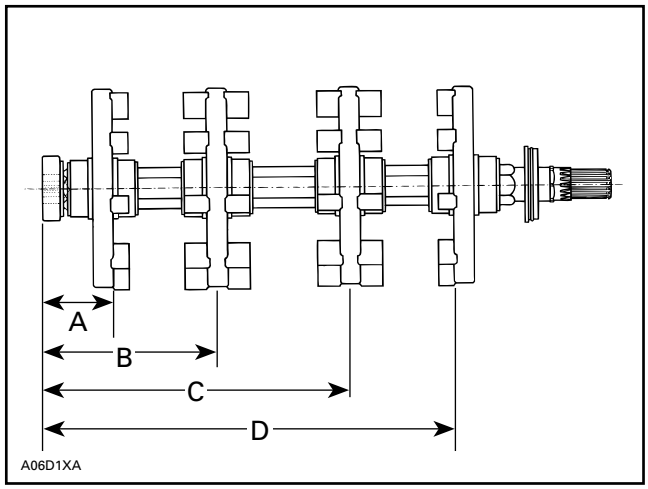
Date : September 27, 1995

SUBJECT : Drive Sprocket Assembly Dimensions

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	S Series and F Series (ALL DSA CHASSIS)	ALL	ALL
1995	S Series and F Series (ALL DSA CHASSIS)	ALL	ALL
1994	F Series (ALL DSA CHASSIS)	ALL	ALL
1993	F Series (ALL DSA CHASSIS)	ALL	ALL

When reinstalling the sprockets on the drive axle on the above mentioned models, note the revised measurements.

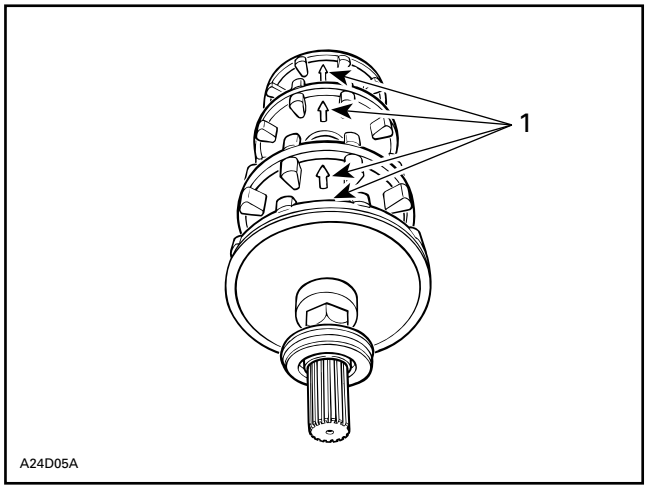
Sprockets must be assembled as follows.



A. 65.8 mm (2-9/16 in)
B. 159.3 mm (6-1/4 in)
C. 282.3 mm (11-1/16 in)
D. 375.8 mm (14-3/4 in)

NOTE : Alignment of center sprockets are measured center to center. Whereas, the outer sprockets are not.

Ensure to align indexing marks of each sprocket when assembling.



TYPICAL

1. Indexing marks aligned

Please update the *Ski-Doo Shop manuals* for the above mentioned model years. Indicate the number of this bulletin in the REAR SUSPENSION section of the manual.

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- ☐ Parts ☐

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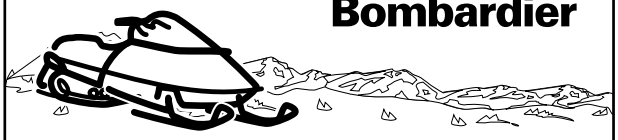

SNOWMOBILES

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SERVICE Bulletin

No. **96-5**

Date : September 12, 1995

SUBJECT : Loctite on Crankshaft

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
ALL	ALL	ALL	ALL

A new Loctite product has been developed to be used when rebuilding crankshafts on all Ski-Doo models.

This new product, Loctite 642 (P / N 293 8000 39) has been developed to be used on press fit parts only and we strongly suggests that it be used.

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

This is a service tip, no warranty applies.

Please route to :

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- ☐ Sales ☐
- ☐ Parts ☐

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SNOWMOBILES

S

SERVICE Bulletin

No. **96-6**

Date : September 13, 1995

SUBJECT : Reverse Transmission Kit

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	FORMULA SLS	CDN / 1049 U.S. / 1050 SWEDEN / 1097	ALL

Starting from now, transmission kit for 1996 Formula SLS is :

P / N 860 4229 00.

Dealers who have ordered kit P / N 860 4227 00 for this model can modify it as follows :

Replace the following 2 parts :

1. Retaining Ring (P / N 504 0941 00)
2. Coupling Shaft (P / N 504 0942 00)

Order and install these 2 parts following same procedure of instruction sheet.

1. Retaining Ring (P / N 504 0763 00)
2. Coupling Shaft (P / N 504 0977 00)

Re-stock the unused parts or call your parts analyst for a return authorization (no handling fee will be charged).

Litho'd in Canada (MBS-9609 PRM)

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- ☐ Parts ☐

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SNOWMOBILES

S

SERVICE Bulletin

No. **96-7**

Date : September 22, 1995

SUBJECT : Replacement of Front Member or Tunnel

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	All DSA Chassis S-2000 and F-2000 Series	ALL	ALL

When replacing either a front member or a tunnel (see the attached part number list) be sure to properly align them when reassembling.

Align the tunnel and the front member to each other by pushing them firmly together.

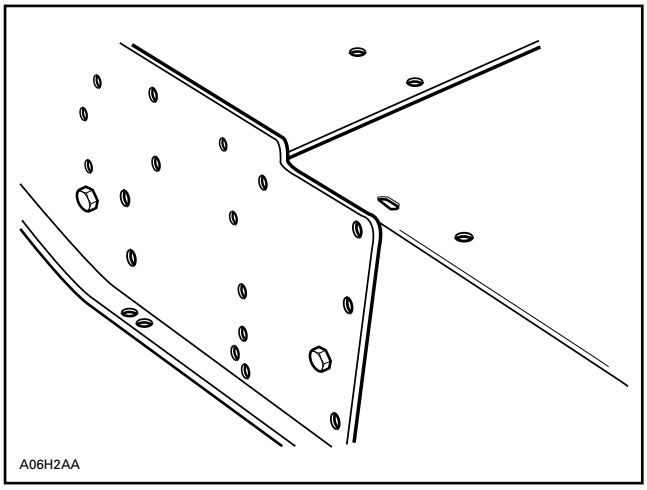
Install three 10 mm bolts and one 8 mm bolt in the following locations.

A 10 mm bolt in both holes for the front arm of the rear suspension.

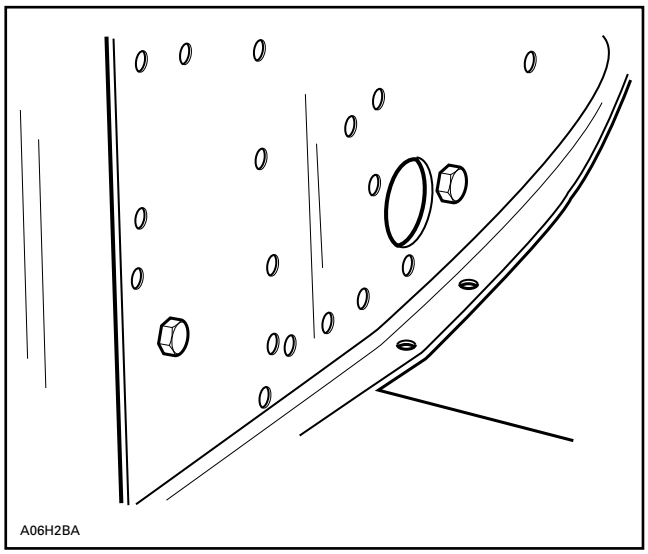
A 10 mm bolt in the front mounting hole for the chaincase.

An 8 mm bolt in the front drive shaft bearing mounting hole.

Refer to the following illustrations.



RH SIDE



LH SIDE

After both components are aligned install nuts on the bolts and tighten them.

Using either the tunnel or the front member as a template (whichever is not being replaced), drill rivet holes in the component being replaced.

O NOTE : Use short rivets P / N 390 4022 00 wherever 2 plates are being riveted together and long rivets P / N 390 4023 00 wherever 3 plates are being riveted together.

Drill 4.8mm (3/16 in) rivet holes in the top first, install the rivets.

Drill the side rivet holes last, install the rivets.

Remove the alignment bolts after all the rivets between the front member and the tunnel are installed.

Litho'd in Canada (MBS-9606 RH)

O NOTE : When replacing a tunnel remove the original Model / serial number plate and rivet it to the new tunnel.

Please update your *Shop Manual* by indicating the number of this bulletin in section 09 BODY / FRAME.

PART NUMBER	Description	Applicable 1996 model numbers and names
518 313 040	Front member	1073,1074-Grand Touring SE
518 313 045	Front member	1081,1082-Mach 1
518 313 050	Front member	1059,1058-Summit 500 1061,1062-Summit 670 1064,1065-Summit 583
518 313 043	Front member	1530-Touring E 1523-Formula S 1521,1522-Formula SL
518 313 041	Front member	1054,1055-Formula STX 1078,1079-Formula SS 1090,1091-Formula Z 1056,1057-Formula STX LT (2) 1070,1071-Grand Touring 580
518 313 042	Front member	1049,1050-Formula SLS 1067,1068-Grand Touring 500
518 313 044	Front member	1531,1532-Skandic 500 1534,1535-Skandic 380 1527,1528-Touring LE 1524,1525-Touring SLE 1542-Touring E LT
518 313 046	Front member	1076,1077-Formula III 1084,1085-Mach Z 1100,1101-Formula III LT
518 313 049	Front member	1051,1052-MXZ 440 1094,1095-MXZ 583
518 313 244	Tunnel*	1056,1057-Formula STX LT (2) 1070,1071-Grand Touring 580
518 313 240	Tunnel*	1081,1082-Mach 1 1076,1077-Formula III 1084,1085-Mach Z
518 313 252	Tunnel*	1049,1050 Formula SLS 1051,1052-MXZ 440 1094,1095-MXZ 583
518 313 245	Tunnel*	1067,1068-Grand Touring 500
518 313 251	Tunnel*	1058,1059-Summit 500
518 313 247	Tunnel*	1530-Touring E 1523-Formula S 1521,1522-Formula SL
518 313 241	Tunnel*	1054,1055-Formula STX 1078,1079-Formula SS 1090,1091-Formula Z
518 313 250	Tunnel*	1531,1532-Skandic 500 1534,1535-Skandic 380 1527,1528-Touring LE 1524,1525-Touring SLE 1542-Touring E LT
518 313 253	Tunnel*	1073,1074-Grand Touring SE 1087,1088-Mach Z LT

*When replacing a tunnel remove the original Model / serial number plate and rivet it to the new tunnel.

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-8**

Revision 1

Date : December 12, 1995

SUBJECT : Installation of New Large Diameter Rewind Starter

Year	Applicable Vehicles	Serial Number
1996	All vehicles equipped with a 494 or 583 type engine	ALL
1995	All vehicles equipped with a 454, 467, 583 or 670 type engine	ALL
1994	Engine type 583 in the Formula STX, Formula Z and Summit Engine type 467 in the MX, MX Z and Summit	ALL

For easier pulling when manually starting a vehicle install the new large diameter rewind starter assembly and related parts.

PARTS

NOTE : Do not order the individual parts described in the original version of this bulletin, instead order the kit listed below.

Description	P / N	Qty
Rewind starter kit	420 8874 41	1

ADDITIONAL PARTS FOR 1995 VEHICLES

Description	P / N	Qty
Engine support [1]	512 0544 00	1
Engine support [2]	512 0545 00	1

[1] Formula SS ; Formula STX and STX LT ; MX ; Summit 583 and 670 ; Grand Touring 470, 580 and SE

[2] Mach 1, Formula Z and MX Z

ADDITIONAL PARTS FOR 1994 VEHICLES

Description	P / N	Qty
Engine support [1]	512 0544 00	1
Engine support [2]	512 0545 00	1

[1] Formula STX ; Formula Z ; Summit 470 and 583 ; MX

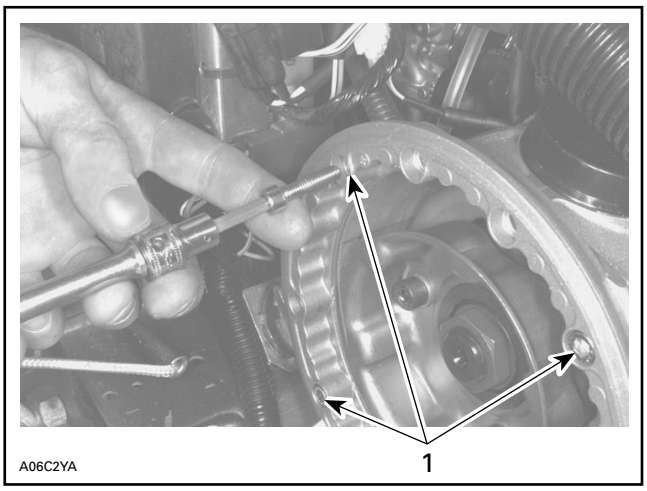
[2] MX Z

PROCEDURE

Remove the original rewind starter as outlined in the appropriate section of the *Shop Manual*.

Install the adapter flange to the crankcase with 4 M6 x 25 Allen screws, torque them to 9 N•m (7 lbf•ft).

Litho'd in Canada (MBS-9613 RH)

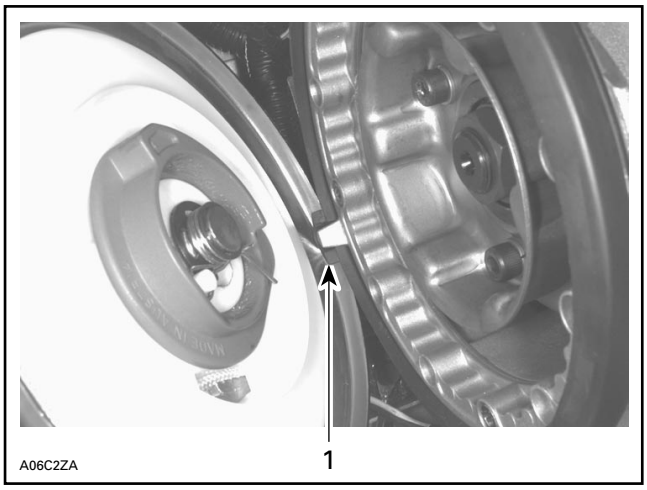


1. 3 of the 4 M6 x 25 Allen screw locations

Install the damper ring over the outer flange of the adapter.

Install the rewind assembly aligning the cut out in the rewind with the notch in the adapter flange.

Install the rewind clamp aligning the notch with the embossment in the adapter flange. Tighten the screw on the rewind clamp to 9 N•m (7 lbf•ft).



1. Notch aligned with the embossment

Properly route the rewind rope through the guides and into the rewind handle. An example is given in the following illustration.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

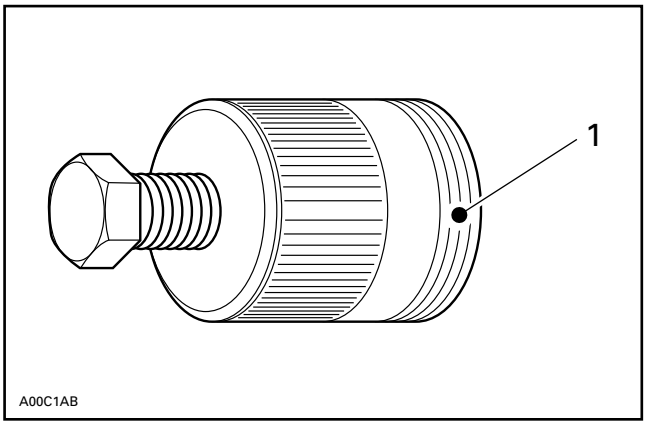
SERVICE Bulletin

No. **96-9**

Date : December 7, 1995

SUBJECT : Magneto Puller Tool (P / N 529 0225 00)

When using the magneto puller in conjunction with the puller ring to remove the magneto flywheel from the crankshaft, apply a thin coat of anti-seize lubricant (P / N 413 7010 00) on threads of puller tool.



1. Apply anti-seize lubricant on threads

This will prevent any sticking or damage to tool threads, providing a long life span of both tools.

Litho'd in Canada (MBS-9612 FY)

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-10**

Date : December 21, 1995

SUBJECT : Tachometer

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	Skandic WT	1537 and 1539	ALL

This bulletin contains supplementary instructions to properly install a tachometer on the above mentioned models.

It must be used in conjunction with the instruction sheet of existing kit (P / N 861 7463 00).

PARTS REQUIRED

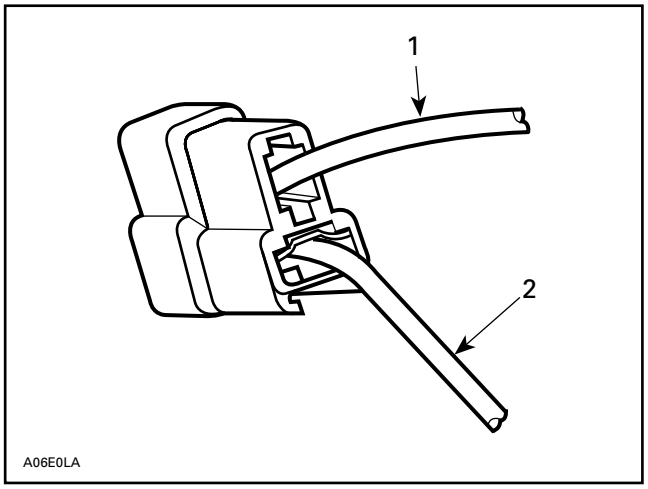
	DESCRIPTION	P / N	QTY
1	Wire (RED) (18 gauge)	N / A	660 mm (26 in)
2	Wire (YELLOW-BLACK) (18 gauge)	N / A	660 mm (26 in)
3	Connector (female)	561 5031 00	4
4-5	Housing (male)	409 2046 00	2
6	Connector (male)	561 5034 00	2
7	Housing (female)	409 2045 00	1

PROCEDURE

Cut the wires to 330 mm (13 in) to have 2 YELLOW-BLACK wires and 2 RED wires.

Install female connector **no. 3** to one end of each wire.

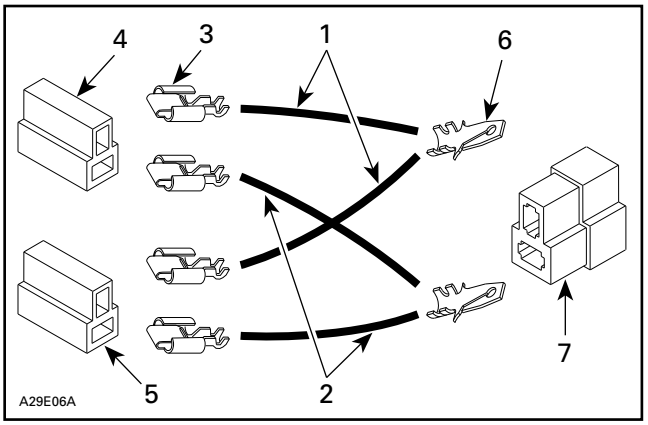
Insert the connectors, (1 YELLOW-BLACK wire and 1 RED wire) into housing **no. 4**. Repeat using housing **no. 5**.



1. RED
2. YELLOW-BLACK

Join other ends of YELLOW-BLACK wires together then install male connector **no. 6**. Proceed to do the same with RED wires.

Install connectors into housing **no. 7**.



1. RED wires
2. YELLOW-BLACK wires
3. Female connectors
4. Male housing A
5. Male housing B
6. Male connectors
7. Female housing C

Litho'd in Canada (MBS-9614 PRM)

Unplug housing from speedometer.

Connect housing A to speedometer.

Connect housing B to tachometer.

Connect housing C to vehicle wiring harness.

Verify that both gauges operate properly.

This is a service procedure, no warranty applies.

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

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

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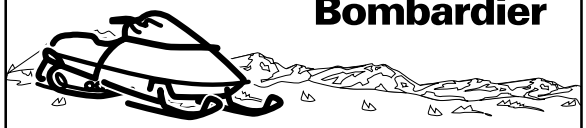


SNOWMOBILES

S

SERVICE Bulletin

No. **96-11**

Date: December 22, 1995

SUBJECT: Mandatory and recommended tools

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	ALL	ALL	ALL

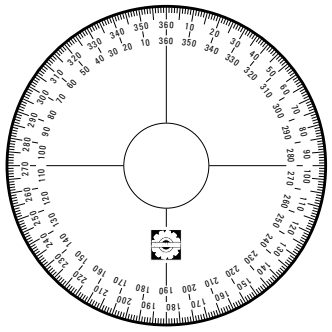
Attached is a list of tools to properly service Ski-Doo snowmobiles. The list includes both the mandatory tools found in tool kit P/N 861 7437 00 and the optional tools that are ordered separately. The list of Service Products, both mandatory and optional, are not part of any kit and must all be ordered separately. If you need to replace or add to your tool inventory these items can be ordered through your regular parts channels.

SERVICE TOOLS

NOTE: The numbers outlined in black (example: **1**) are reference numbers to tools from other divisions (Sea-Doo Watercraft and/or Sea-Doo Jet Boats). Matching reference numbers indicate the same tool is being used even if the part numbers are different.

ENGINE - MANDATORY SERVICE TOOLS

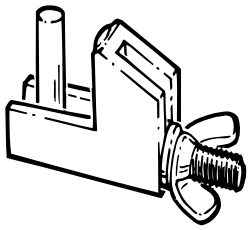
Degree wheel **1**
(P/N 414 3529 00)



A00B334

APPLICATION
All rotary valve engines.

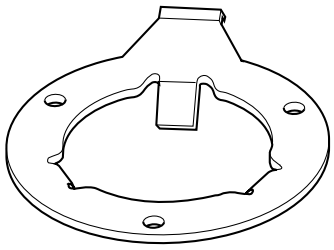
Hose pincher (2) **2**
(P/N 529 0099 00)



A01B2I4

APPLICATION
All vehicles.

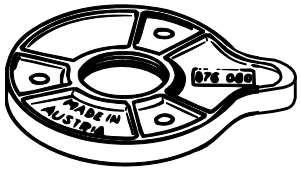
Fan holder **3**
P/N 420 8763 57)



A00C0Q4

APPLICATION
377, 443 and 503 engines.

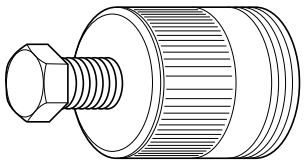
Magneto puller ring **4**
(P/N 420 8760 80)



A00C1R4

APPLICATION
All engines except 247.

Magneto puller **5**
(P/N 529 0225 00)



A00C1A4

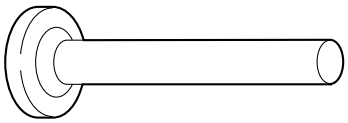
APPLICATION
All engines except 247.

Aligning pin (4) **6**
(P/N 529 0189 00)

A00A1D4

APPLICATION
467 and 582 engines.

Pusher **7**
(washer behind the impeller)
(P/N 529 0207 00)

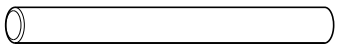


A00C3H4

APPLICATION
Rotary valve engines.

8

Rotary valve shaft pusher
(P/N 420 8766 12)



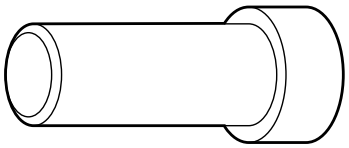
A00C0F4

APPLICATION

Rotary valve engines with a 10 mm impeller shaft.

9

Rotary valve seal pusher (valve side)
(P/N 420 8766 07)



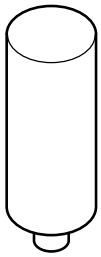
A00C0Y4

APPLICATION

Rotary valve engines.

10

Rotary valve shaft seal pusher (inner, water pump side)
(P/N 420 8765 12)



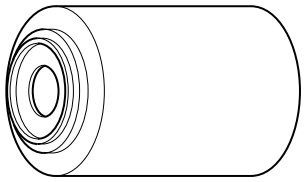
A00C374

APPLICATION

Rotary valve engines, 1991 and newer with a 10 mm impeller shaft.

11

Rotary valve shaft seal pusher (outer, water pump side)
(P/N 420 8770 50)



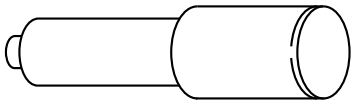
A00C0X4

APPLICATION

Rotary valve engines.

12

Bearing pusher (rotary valve)
(P/N 420 8765 00)



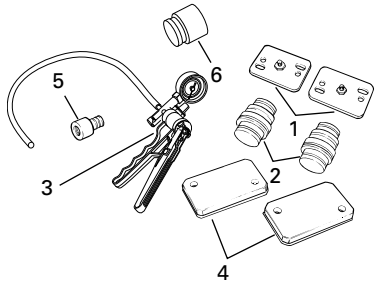
A00B2J4

APPLICATION

Rotary valve engines.

14

Engine leak tester kit
(P/N 861 7491 00)



A01B2D4

APPLICATION

All engines.

Parts included in the kit:

1) Exhaust oulet plug (2) (P/N 529 0246 00)
2) Intake manifold plug (2) (P/N 529 0110 00)
3) Air pump (1) (P/N 529 0218 00)
4) RAVE system plug (2) (P/N 529 0112 00)
5) Adapter (2) (P/N 517 2349 00)
6) Intake manifold plug - 779 (P/N 529 0305 00)

2-1/4 in plug (1)
(P/N 529 0211 00)

2-3/4 in plug (1)
(P/N 529 0212 00)

Plates (2)
(P/N 529 0213 00)

Radiator plug (1)
(P/N 529 0214 00)

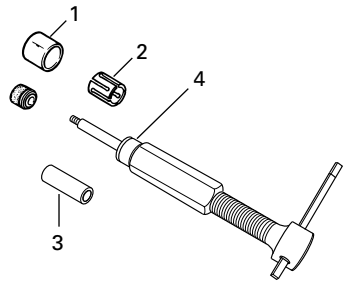
Clamp (1)
(P/N 408 8035 00)

Adapter 3/16 ID x 1/8 NPT (2)
(P/N 408 2011 00)

NOTE: Must maintain a pressure of 5 lb during 3 minutes. Never pressurize over 5 lb.

ENGINE (continued) - MANDATORY SERVICE TOOLS

Piston pin puller **16**
(P/N 529 0290 00)

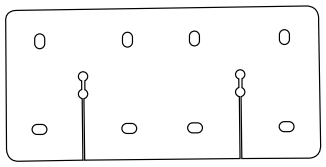


A01B4H4

APPLICATION
All engines.

Parts included:
1) Locating sleeve (3) (P/N 529 0238 00)
2) Expansion sleeve (3) (P/N 529 0237 00)
3) Adaptor (P/N 529 0236 00)
4) U-bushing (P/N 529 0277 03)

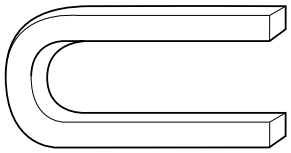
Rubber pad **17**
(P/N 529 0234 00)



A01B4C4

APPLICATION
All cageless bearing engines (277 and 503).

Rotary valve circlip tool
A) (P/N 529 0291 00) **18**
B) (P/N 529 0208 00) **15**



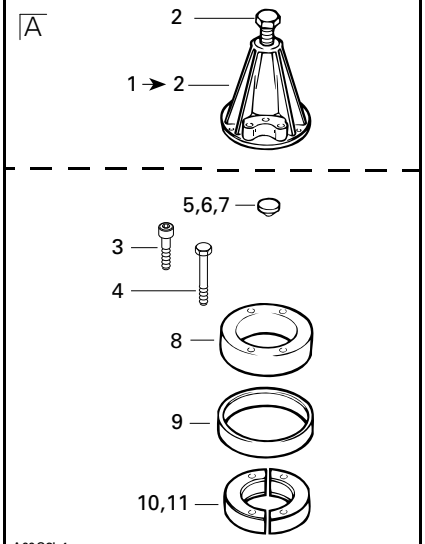
A00C3I4

APPLICATION
A) 454 and 670 engines.
B) All rotary valve engines except the 454 and 670.

ENGINE (continued) - RECOMMENDED SERVICE TOOLS

The following tools are highly recommended to optimize your basic tool kit and reduce repair time.

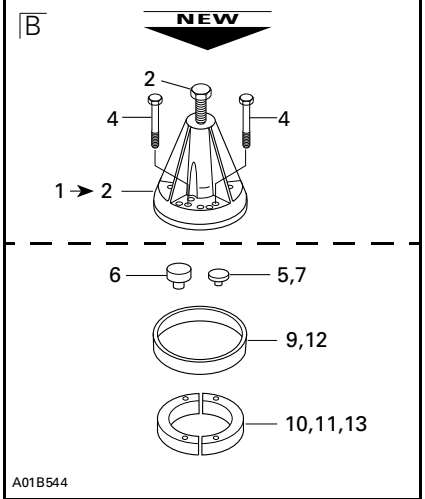
1-2) Crankshaft bearing puller with screw **200**
(P/N 420 8762 98)



APPLICATION

247, 277, 377, 443, 503, 582 and 583 engines.

1-2) Crankshaft bearing puller with screw **250**
(P/N 420 8776 35)



APPLICATION

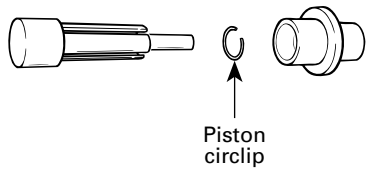
247, 277, 377, 443, 454, 494, 503, 582, 583, 599, 670 and 779 engines.

Use with crankshaft bearing pullers A (P/N 420 8762 98) or B (P/N 420 8776 35).

1)	Bolt (M16 x 1.5 x 150) For either A or B pullers.	(P/N 420 9407 55)	**258**
2)	Screw M8 x 40 (4) A puller MAG side, B puller MAG and PTO side.	(P/N 420 8406 81)	**559**
3)	Screw M8 x 70 (4) A puller only, PTO side.	(P/N 420 8412 01)	**560**
4)	Crankshaft protector 247 engine.	(P/N 420 9768 90)	**260**
5)	Crankshaft protector PTO A or B puller; all engines except 247.	(P/N 420 8765 52)	**259**
6)	Crankshaft protector MAG A or B puller; all engines except 247.	(P/N 420 8765 57)	**554**
7)	Distance ring PTO A puller; 377, 443, 503, 582 and 583 engines.	(P/N 420 8765 69)	**557**
8)	Puller ring Use with half rings (P/N 420 9774 75 or 420 2760 25).	(P/N 420 9774 90)	**555**
9)	Half ring (2) A or B puller; for 72 mm O.D. bearings.	(P/N 420 9774 75)	**556**
10)	Half ring A or B puller; for 62 mm O.D. bearings.	(P/N 420 2760 25)	**558**
11)	Puller ring For half rings (P/N 420 9774 79).	(P/N 420 9774 94)	**251**
12)	Half ring B puller only ; 80 mm O.D. bearings.	(P/N 420 9774 79)	**252**

ENGINE (continued) - RECOMMENDED SERVICE TOOLS

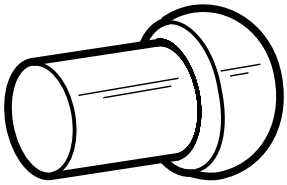
Piston circlip installer
A) (P/N 529 0169 00) **202**
B) (P/N 290 8770 16) **548**



A01B1P4

APPLICATION
A) All engines except 670.
B) 670 engines.

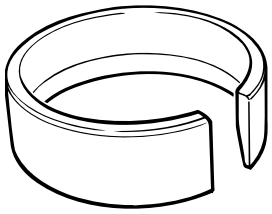
Piston pin/connecting rod bearing centering tool **203**
(P/N 529 0091 00)
NOTE: New diameter is 9.65 mm (0.380").



A01B1R4

APPLICATION
All engines.

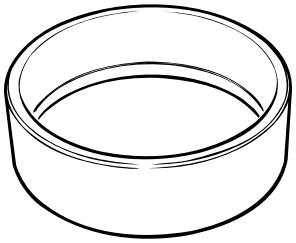
Ring compressor
A) (P/N 420 8760 90) (62 mm) **204**
B) (P/N 420 8769 74) (69.5 mm) **205**
C) (P/N 420 8769 70) (72 mm) **206**
D) (P/N 420 8769 72) (76 mm) **207**
E) (P/N 420 8769 75) (67.5 mm) **208**
F) (P/N 529 0308 00) (78 mm) **262**



A01B1T4

APPLICATION
A) 377 engines.
B) 467 engines.
C) 503, 253 and 536 engines.
D) 582, 583 and 643 engines.
E) 447 engines.
F) 670 engines.

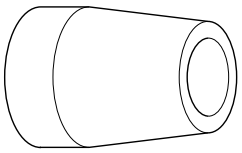
Magneto coil centering ring **209**
(P/N 420 8769 22)



A01B1V4

APPLICATION
All engines with Nippondenso CDI (160 W).

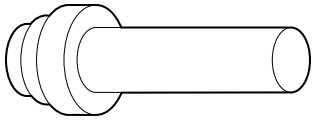
Seal protector sleeve
(P/N 420 9779 10) (PTO) **210**
(P/N 420 2769 00) (MAG) **211**



A00C0D4

APPLICATION
247 engine.

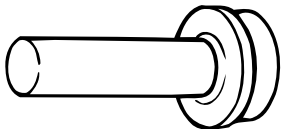
Engine seal pusher **212**
(P/N 420 9779 20)



A00C0V4

APPLICATION
247 engine.

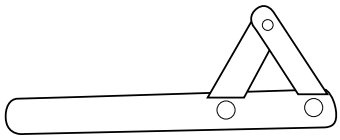
Polyamid ring pusher **213**
(P/N 420 2769 30)



A00C0Z4

APPLICATION
247 engine.

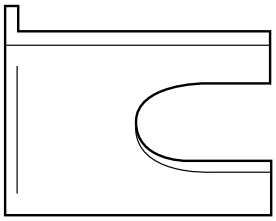
Magneto holder **215**
(P/N 420 9765 50)



A00C1V4

APPLICATION
247 engine.

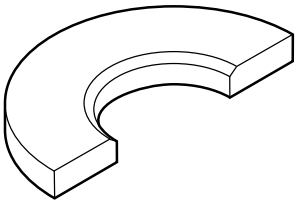
Crankshaft feeler gauge **216**
(P/N 420 8766 20)



A00C114

APPLICATION
377, 443, 447 and 503 engines.

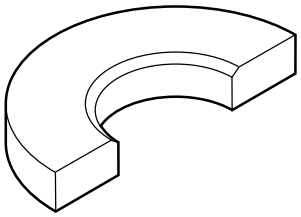
Crankshaft distance gauge (5.7 mm) **217**
(P/N 420 8768 22)



A00C294

APPLICATION
377, 443 and 447 engines.

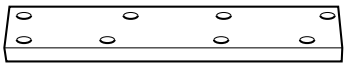
Crankshaft distance gauge (12.7 mm) **218**
(P/N 420 8768 24)



A00C3A4

APPLICATION
503 engine.

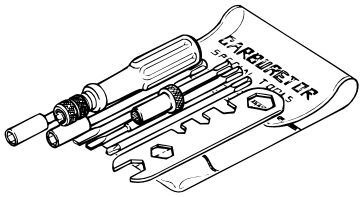
Cylinder aligning tool
A) (P/N 420 8769 02) **220**
(on exhaust side)
B) (P/N 420 8761 71) **221**
(on intake side)



A00B084

APPLICATION
A) 467, 536, 537, 582, 583, 643 and 670 engines.
B) 377, 443, 447 and 503 engines.

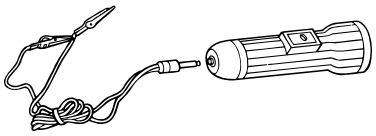
Mikuni carburetor tool kit **222**
(P/N 404 1120 00)



A00B2F4

APPLICATION
All models.

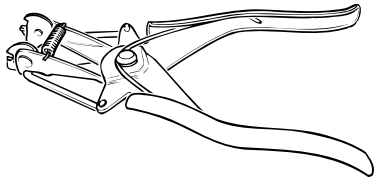
Circuit tester (continuity light) **223**
(P/N 414 0122 00)



A00C214

APPLICATION
All vehicles.

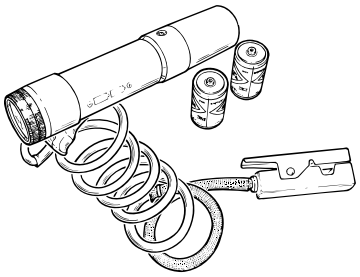
Piston ring expander **224**
(P/N 529 0097 00)



A01B2G4

APPLICATION
All engines.

Stroboscopic timing light **225**
(P/N 529 0092 00)



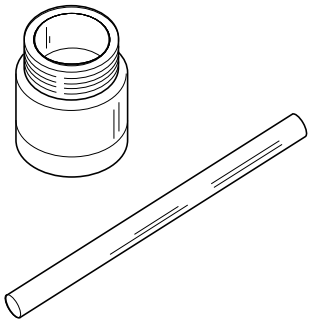
A01B2K4

APPLICATION
All engines.

ENGINE (continued) - RECOMMENDED SERVICE TOOLS

RAVE movement indicator **226**

(P/N 861 7258 00)



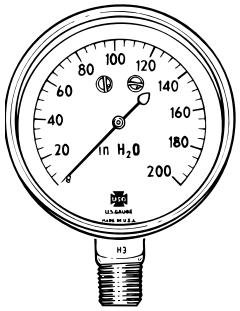
A18B014

APPLICATION

All RAVE equipped engines.

Air pressure gauge, 0-200 inch of water **227**

(P/N 529 0104 00)



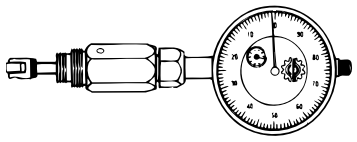
A18B034

APPLICATION

For pressure testing gauge.

Dial indicator (TDC gauge) **230**

(P/N 295 0001 43)



A00B4E4

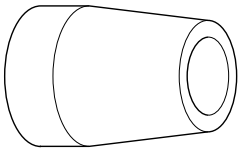
APPLICATION

All engines.

Seal protector sleeve

A) (P/N 420 8769 80) **231**
(for 10 mm shaft)

B) (P/N 420 8764 90) **232**
(for 12 mm shaft)



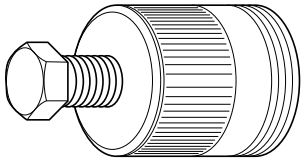
A00C0D4

APPLICATION

467, 582, 583 and 670 engines.

Magneto puller **233**

(P/N 420 9762 35)



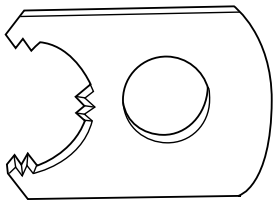
A00C1A4

APPLICATION

247 engine.

Injection pump gear holder **234**

(P/N 420 8766 95)



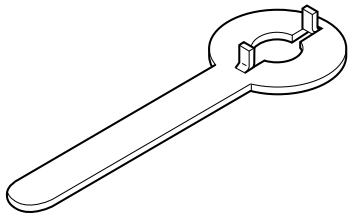
A00B314

APPLICATION

253, 377, 447 and 503 engines.

Injection pump gear holder **235**

(P/N 420 2779 05)



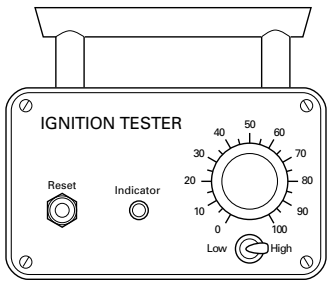
A00C164

APPLICATION

467, 494, 536, 537, 582, 583, 643, 670 and 779 engines.

Bombardier magneto tester **236**

(P/N 419 0033 00)



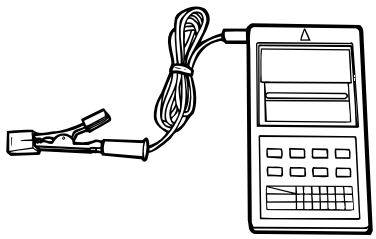
A00C1K4

APPLICATION

All engines.

ENGINE (continued) - RECOMMENDED SERVICE TOOLS

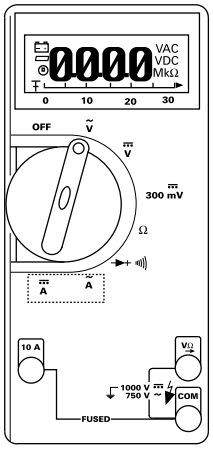
Digital/induction type tachometer **237**
(P/N 529 0145 00)



F01B1G4

APPLICATION
All engines.

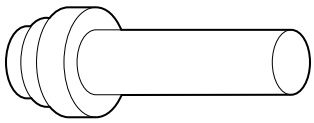
Fluke multimeter **242**
(P/N 529 0220 00)



F01B1O4

APPLICATION
All models.

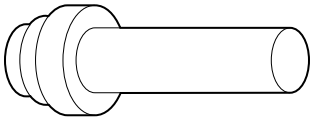
MAG seal pusher **243**
(P/N 420 2778 75)



A00C0V4

APPLICATION
277 engine.

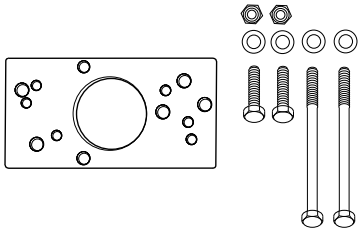
PTO seal pusher **244**
(P/N 420 8766 60)



A00C0V4

APPLICATION
277 engine.

Base puller plate kit **245**
(P/N 529 0249 00)

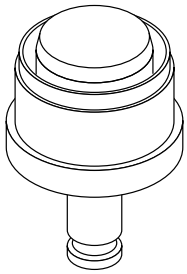


A05C0M4

APPLICATION
277 engine.

Insertion jig
(Magneto side seal) **247**
(P/N 420 8765 16)

NEW

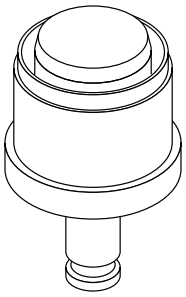


A00C3T4

APPLICATION
779 engine.

Insertion jig
(Magneto seal) **248**
(P/N 420 8765 14)

NEW

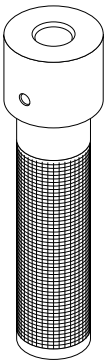


A00C3U4

APPLICATION
454 and 670 engines.

Handle for insertion jig **249**
(P/N 420 8776 50)

NEW



A00C3V4

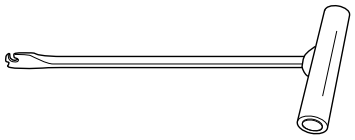
APPLICATION
454, 670 and 779 engines.

ENGINE (continued) - RECOMMENDED SERVICE TOOLS

Exhaust spring installer/ remover **253**

(P/N 529 0281 00)

NEW



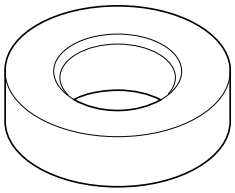
A00C3S4

APPLICATION

All models.

Bearing simulator **219**

(P/N 420 8761 55)



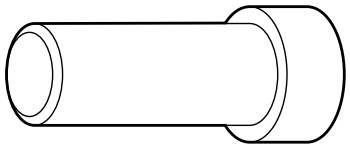
A00C1H4

APPLICATION

253, 305, 343, 402 and 440 engines.

Rotary valve seal and shaft pusher **229**

(P/N 420 8766 05)



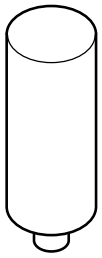
A00C0Y4

APPLICATION

Rotary valve engines 1990 models and older.

Seal pusher (rotary valve) **240**

(P/N 420 8765 10)



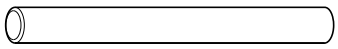
A00C374

APPLICATION

All rotary valve shaft seals with a 12 mm I.D.

Rotary valve shaft pusher **239**

(P/N 420 8766 10)



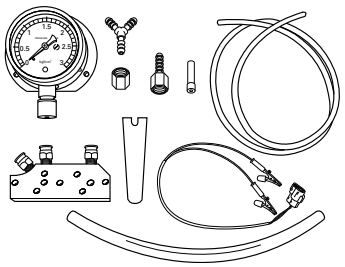
A00C0F4

APPLICATION

All rotary valve engines with 12 mm shaft.

Self fuel control injection (S.F.C.I.) system test kit **241**

(P / N 861 7391 00)



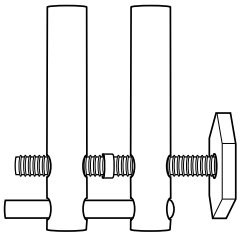
A28E034

APPLICATION

1993 Formula Plus EFI.

Large hose pincher **773**

(P/N 529 0304 00)



F01B234

APPLICATION

All vehicles.

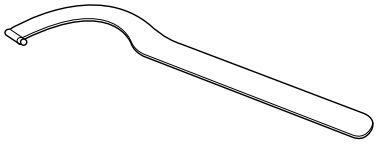
TRANSMISSION - MANDATORY SERVICE TOOLS

Clutch holder **51**
(P/N 529 0064 00)

A01B154

APPLICATION
All TRA drive pulleys.

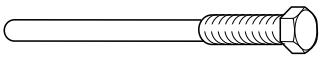
Clutch holder **79**
(P/N 529 0276 00)



A02B034

APPLICATION
Bombardier Lite drive pulley.

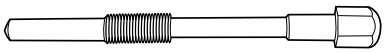
Drive pulley puller **53**
(P/N 529 0314 00)



A18B044

APPLICATION
Bombardier Lite drive pulley, except Élan.

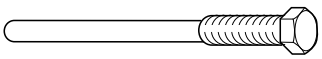
TRA drive pulley puller **75**
(P/N 529 0224 00)



A06B014

APPLICATION
TRA drive pulley for the 454, 494, 599, 670 and 779 engines.

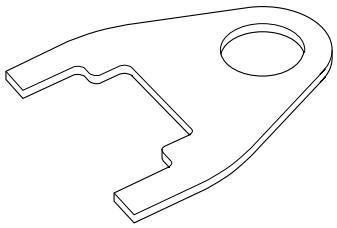
TRA drive pulley puller **55**
(P/N 529 0079 00) (25 mm)



A18B044

APPLICATION
TRA drive pulley (except 599, 670 and 779 engines).

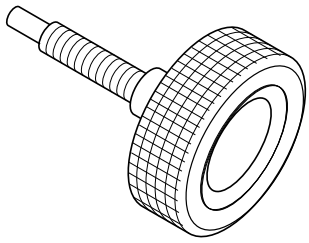
Forks (3) **57**
(P/N 529 0055 00)



A16B014

APPLICATION
All vehicles equipped with a TRA drive pulley.

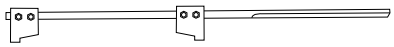
Drive belt installer **58**
(P/N 529 0172 00)



A00A1A4

APPLICATION
All vehicles except Élan and Tundra II.

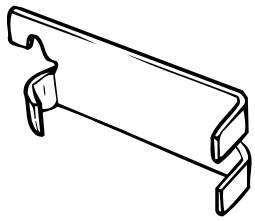
Transmission alignment bar
A) (P/N 529 0267 00) **78**
B) (P/N 529 0269 00) **60**
C) (P/N 529 0300 00) **80**
D) (P/N 529 0268 00) **73**



A01B4D4

APPLICATION
A) F-Series and S-Series.
B) Tundra II.
C) S-Series with Bombardier Lite.
D) Safari L.

Spring scale hook (long) **62**
(P/N 529 0152 00)



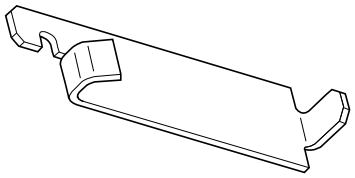
A01B514

APPLICATION
1994 models and older except Alpine II.

Spring scale hook (long) **84**

(P/N 529 0309 00)

NEW



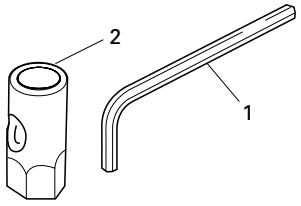
A00B4A4

APPLICATION

F-Series and S-Series (1995 and newer).

Drive belt tension adjuster tool **63**

(P/N 529 0087 00)



A15B044

APPLICATION

All vehicles except Élan, Tundra II and Skandic WT.

Parts included:

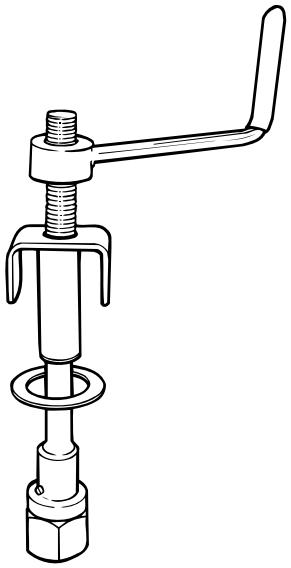
1) Hex wrench (P/N 420 8767 30
2) Socket wrench (P/N 529 0150 00)

Spring compressor/ TRA clutch flare tool **64**

(P/N 529 0186 00)

Parts included in the kit:

1) Spring compressor (P/N 529 0151 00)



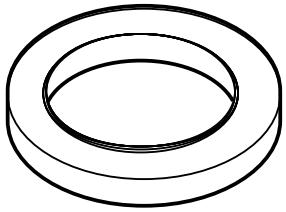
A01B334

APPLICATION (1)

S and F-Series and Alpine II driven pulley type.

All TRA pulley.

2) Washer (2) (P/N 732 9000 15)



A01B3T4

APPLICATION (2)

All applications.

3) TRA clutch spring cover bushing flare tool

A) INTERIOR flare tool (P/N 529 0180 00)

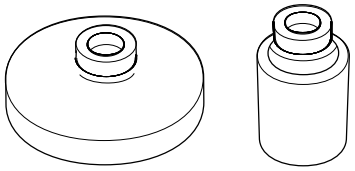
EXTERIOR flare tool (P/N 529 0181 00)

NOTE: Letter A stamper on tools.

B) INTERIOR flare tool (P/N 529 0182 00)

EXTERIOR flare tool (P/N 529 0183 00)

NOTE: Letter B stamper on tools.



A01B3F4

APPLICATION (3)

A) TRA pulley (25 mm shaft).

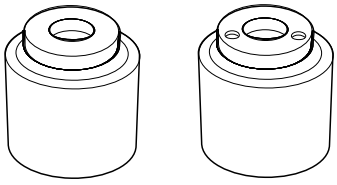
B) TRA pulley (27 mm shaft).

4) TRA clutch outer half bushing flare tool

INTERIOR flare tool (P/N 529 0184 00)

EXTERIOR flare tool (P/N 529 0185 00)

NOTE: Letter C stamped on tools.



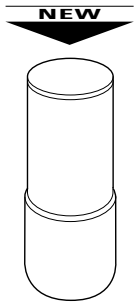
A01B3I4

APPLICATION (4)

All TRA drive pulleys.

TRANSMISSION (continued) - MANDATORY SERVICE TOOLS

Burnishing bar **77**
(P/N 529 0264 02)



A00B464

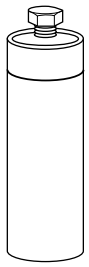
APPLICATION
Safari L and Skandic.

Tension tester **74**
(P/N 414 3482 00)

A00C074

APPLICATION
All models.

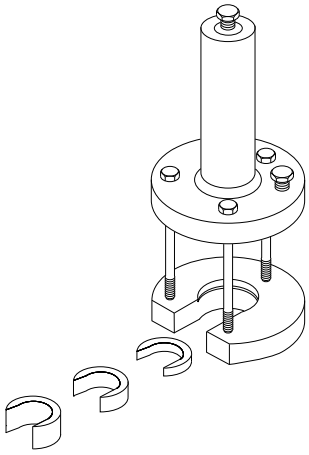
Countershaft bearing installer **83**
(P/N 529 0302 00)



A00A194

APPLICATION
S-Series and F-Series.

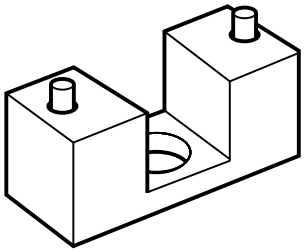
Countershaft bearing remover **82**
(P/N 529 0301 00)



A00A274

APPLICATION
S-Series and F-Series.

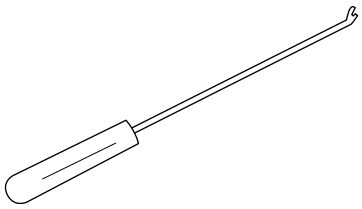
Spring cover tool **81**
(P/N 529 0273 00)



A01B4M4

APPLICATION
Bombardier Lite drive pulley.

Transmission adjuster **76**
(P/N 529 0285 00)



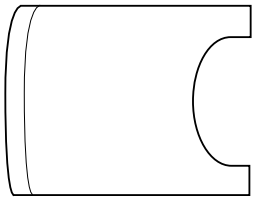
A00D0X4

APPLICATION
F-Series equipped with "twist shifter" reverse transmission.

TRANSMISSION (continued) - RECOMMENDED SERVICE TOOLS

The following tools are highly recommended to optimize your basic tool kit and reduce repair time.

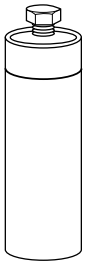
Alignment tool **306**
(P/N 420 4760 10)



A00C1D4

APPLICATION
Skandic WT and Alpine II gearbox.

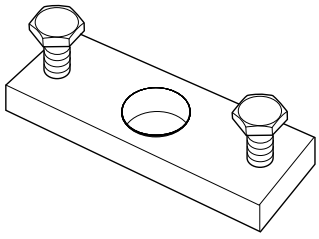
Countershaft bearing installer **501**
(P/N 529 0188 00)



A00A194

APPLICATION
PRS chassis.

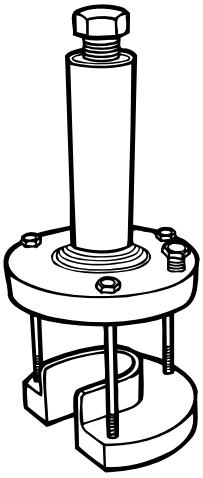
Cam pusher **309**
(P/N 529 0129 00)



A18B064

APPLICATION
Tundra II LT.

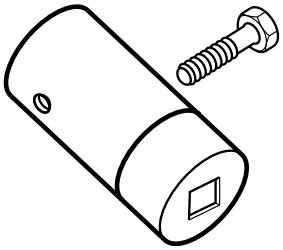
Countershaft bearing remover **502**
(P/N 529 0187 00)



A00A164

APPLICATION
PRS chassis.

Drive pulley puller **318**
(P/N 529 0231 00)



A00C3J4

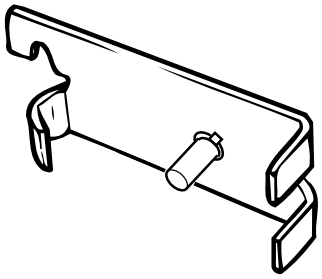
APPLICATION
Élan.

Transmission ball mounting pin **305**
(P/N 420 4760 20)

A00C1C4

APPLICATION
Alpine II 3-speed gearbox.

Spring scale hook (short) **323**
(P/N 529 0065 00)



A01B174

APPLICATION
Alpine II 1994 and older.

TRANSMISSION (continued) - RECOMMENDED SERVICE TOOLS

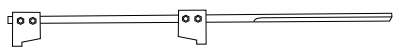
Alignment bar

A) (P/N 529 0256 00) **324**

B) (P/N 529 0282 00) **320**

C) (P/N 529 0283 00) **321**

D) (P/N 529 0310 00)



A01B4D4

E) (P/N 529 0083 00) **300**

A03B034

APPLICATION

A) PRS chassis.

B) Alpine II.

C) Élan.

D) Skandic WT 1996.

E) Scout.

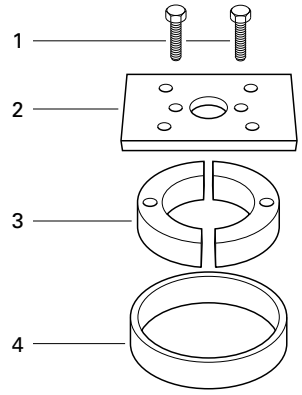
3-speed transmission bearing extractor

1) Screw M8 x 25 (2) (P/N 222 0825 65) **301**

2) Plate

3) Half ring (2) (P/N 420 8763 30) **304**

4) Ring (P/N 420 9774 80) **303**



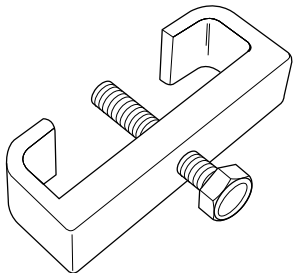
A00C1B4

APPLICATION

Alpine II 3-speed transmission.

Driven pulley support extractor **310**

(P/N 529 0135 00)



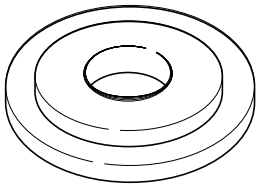
A25B0F4

APPLICATION

Safari (except Cheyenne), Stratos/E, Citation E/LS/LSE, Escapade, Skandic 503, SS-25 and Formula SP/SS (no vehicles equipped with reverse).

TRA clutch spring cover remover cap **312**

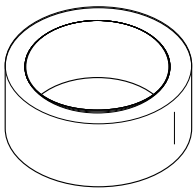
(P/N 529 0103 00)



A16B054

Spacer **311**

(P/N 529 0054 00)



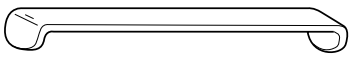
A16B044

APPLICATION

For use with drive pulley puller (P/N 529 0079 00) to remove spring cover. Refer to *1991 Shop manual*.

TRANSMISSION (continued) - RECOMMENDED SERVICE TOOLS

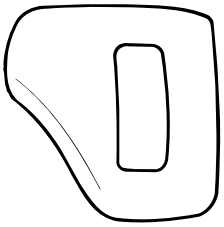
Drive pulley retainer **313**
(P/N 529 0017 00)



A00C224

APPLICATION
Round shaft drive pulley.

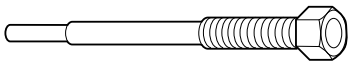
Transmission shifter template **314**
(P/N 529 0198 00)



A15H3J4

APPLICATION
1991 to 1994 PRS chassis.

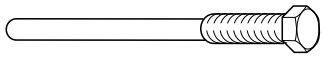
Drive pulley puller **319**
(P/N 529 0021 00)
(Standard threads)



A00C084

APPLICATION
Square shaft, standard (SAE) threads.

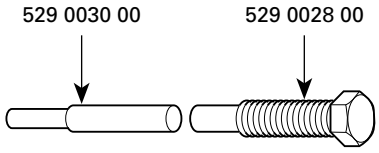
TRA drive pulley puller **322**
(27 mm)
(P/N 529 0101 00)



A18B044

APPLICATION
TRA drive pulley (27 mm) shaft except 454, 670 and 779 engines.

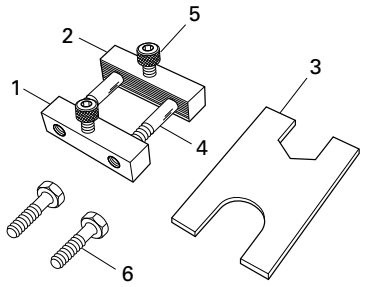
Drive pulley puller **400**
(P/N 860 4142 00)
(square shaft metric)
Consist of:



A00C095

APPLICATION
Square shaft, metric threads drive pulley.

Drive axle sprocket adjuster **340**
(P/N 861 7257 00)



A01B2O4

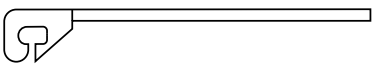
APPLICATION
All vehicles except Élan.

Parts included in the kit:

1) Block with threads (P/N 529 0107 00)
2) Block without threads (P/N 529 0108 00)
3) Plate (P/N 529 0106 00)
4) Bolt M10 (2) (P/N 222 0075 65)
5) Allen screw M8 (2) (P/N 222 9830 65)
6) Screw M8 (2) (P/N 222 0825 65)

NOTE: When the tool is to be use between tunnel and sprocket use screw M8.

Transmission adjuster **504**
(P/N 529 0303 00)

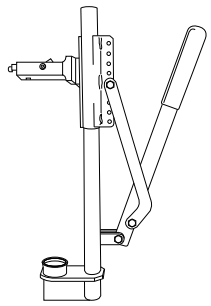


A03D1T4

APPLICATION
Vehicles equipped with "push-pull shifter" reverse transmission.

SUSPENSION - MANDATORY SERVICE TOOLS

Shock spring remove kit **65**
(P/N 529 0271 00)
Replacement clevis pin:
(P/N 414 5284 00)



A01B4O4

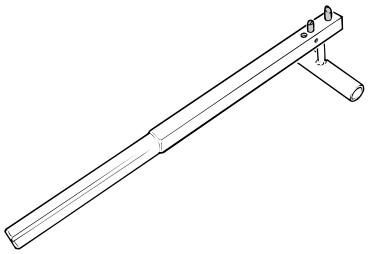
APPLICATION
All suspensions with coil spring.

SUSPENSION (continued) - RECOMMENDED SERVICE TOOLS

A) Track cleat remover **345**
(P/N 529 0082 00)

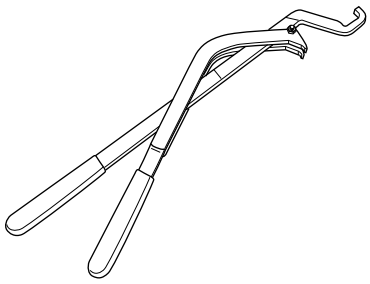
Pins **346**
(P/N 529 0082 04)

NOTE: Pins can be rotated 180° depending on whether the tool is used by a left-hander or right-hander.



A01B1J4

B) TRA track cleat remover **254**
(P/N 529 0287 00)



A01F224

APPLICATION

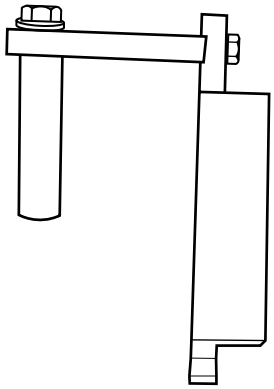
A) 1993 and older.

B) 1994 and newer except Élan and Tundra II.

Camber angle tool **343**
(P/N 529 0216 00)

NOTE: Angle finder with a magnetic base must be used.

Suggestion: K-D tool no. 2968

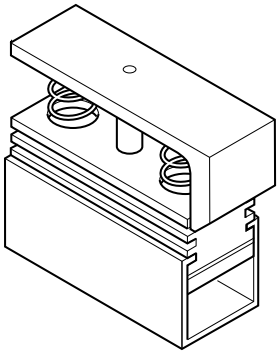


A06B024

APPLICATION

All DSA front suspensions.

Track tension gauge **342**
(P/N 529 0215 00)



A00B3X4

APPLICATION

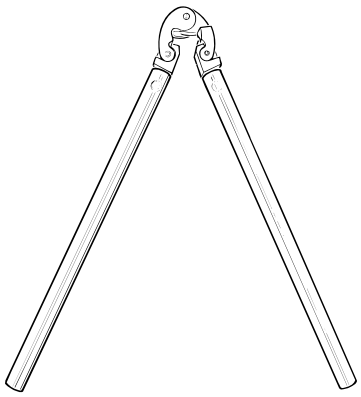
All models except Élan.

Track cleat installer

A) (P/N 529 0085 00) **347**
Narrow

B) (P/N 529 0288 00) **255**
Narrow

C) (P/N 529 0077 00) **344**
Wide



A01B1M4

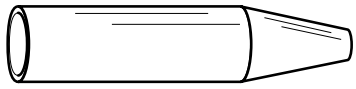
APPLICATION

A) 1993 and older.

B) 1994 and newer.

C) 1992 and older with wide cleat opening.

Dome guide **349**
(P/N 529 0265 00



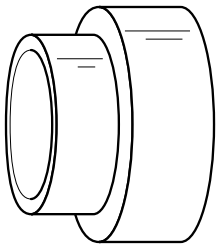
A06F1B4

APPLICATION

MX Z T/A shocks.

SUSPENSION (continued) - RECOMMENDED SERVICE TOOLS

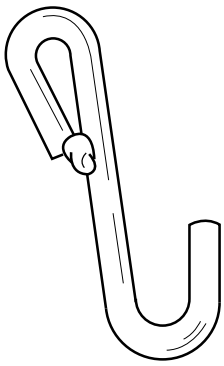
Piston guide **500**
(P/N 529 0266 00)



A06F1C4

APPLICATION
MX Z T/A shocks.

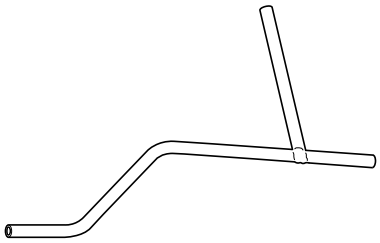
Suspension spring installer (hook) **325**
(P/N 529 0066 00)



A19B034

APPLICATION
Cheyenne.

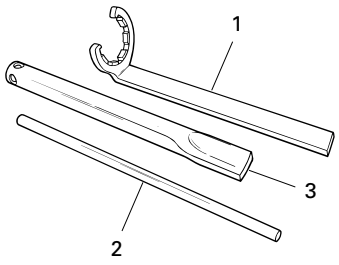
Spring installer (bar) **326**
(P/N 529 0050 00)



A00C1I4

APPLICATION
Tundra II LT, Scout and all SC-10 suspensions.

Spring cam adjuster key **330**
(P/N 861 7317 00)



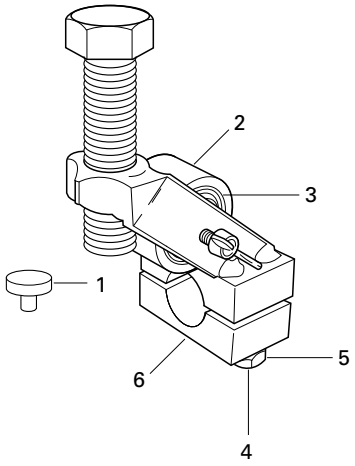
A25B0D4

APPLICATION
Safari A-arm suspension spring.

Replacement parts:

1) Adjustment key (P/N 529 0138 00)
2) Handle (P/N 529 0140 00)
3) Key extension (P/N 529 0139 00)

Bushing installer/ remover **331**
(P/N 529 0119 00)



A25B054

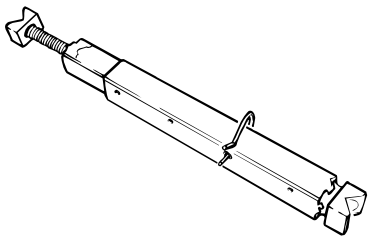
APPLICATION
A-arm suspension.

Parts included in the kit:

1) Buffer (P/N 529 0118 00)
2) Outer sleeve (P/N 529 0125 00)
3) Inner sleeve (P/N 529 0126 00)
4) Hexagonal screw (2) (P/N 222 0830 65)
5) Flat washer (2) (P/N 224 0812 01)
6) Lower retainer (P/N 529 0121 00)

SUSPENSION (continued) - RECOMMENDED SERVICE TOOLS

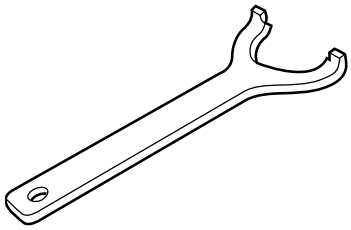
Drive axle holder **333**
(P/N 529 0072 00)



A01B1E4

APPLICATION
All models.

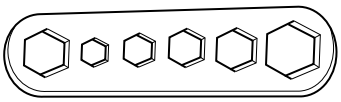
Kayaba shock adjustment tool **334**
(P/N 529 0190 00)



A00A1K4

APPLICATION
C-7 suspension.

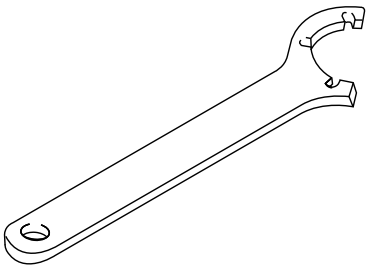
Hexagonal wrench **335**
(P/N 529 0147 00)



A19B024

APPLICATION
Safari and Skandic prior to 1995.

Suspension adjustment wrench **336**
(P/N 529 0122 00)



A25A014

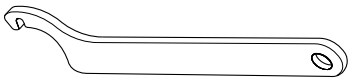
APPLICATION
Rear suspension.

Suspension adjustment wrench **337**
(P/N 529 0098 00)

A24A014

APPLICATION
Models equipped with a mono-shock suspension.

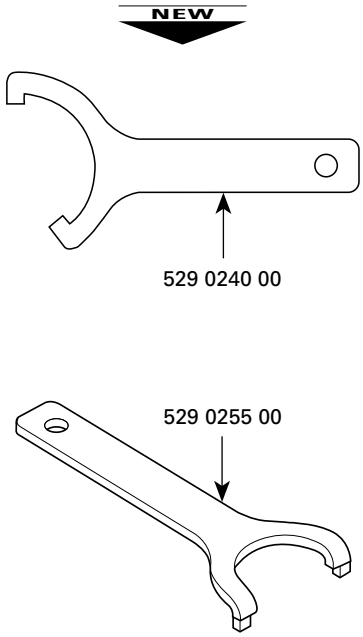
Suspension adjustment wrench **338**
(P/N 529 0171 00)



A15B094

APPLICATION
1992 and old Formula C-7.

Adjustment wrench **506**
(P/N 861 7439 00)
Consists of:



A00B4B4

APPLICATION
T/A shock.

VEHICLES - RECOMMENDED SERVICE TOOLS

Protective mat
(P/N 529 0306 00)

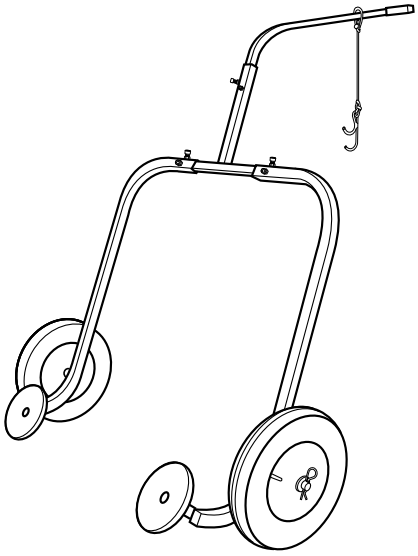
503

A01B45W

APPLICATION
All vehicles.

Dolly
(P/N 529 0299 00)

348

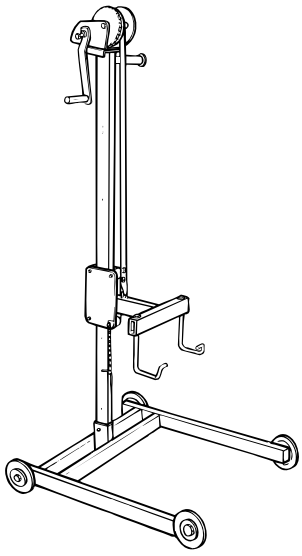


A00B4CJ

APPLICATION
All models.

Snowmobile jack
(P/N 529 0200 00)

341



A01A1JJ

APPLICATION
All models.

SERVICE PRODUCTS

NOTE: The numbers outlined in black (example: **1**) are reference to tool numbers from other divisions (Sea-Doo Watercraft and/or Sea-Doo Jet Boats). Matching reference numbers indicate the same tool is being used, even if the part numbers are different.

MANDATORY SERVICE PRODUCTS

Loctite® is a trademarks of Loctite Corporation.

Dow Corning® is a trademarks of Dow Corning Corporation.

151

Retaining compound

(P/N 413 7031 00)

Loctite® RC/609:

Retaining compound (10 mL) (green)

A00B2S4

APPLICATION

Used for retaining bushings, bearings in slightly worn housing or on shaft.

152

Paste gasket

(P/N 413 7027 00)

Loctite® 515:

Gasket eliminator (50 mL)

A00B2T4

APPLICATION

Crankcase halves transmission and gearbox mating surfaces.

154

Medium-strength threadlocker

(P/N 413 7030 00)

Loctite® 242:

Threadlocker (10 mL) (blue, medium strength)

A00B324

APPLICATION

Flywheel nut, crankcase studs, etc.

155

High strength threadlocker

(P/N 413 7074 00)

Loctite® 271:

Threadlocker (10 mL) (red, high strength)

(TYPICAL)

A00B2U4

APPLICATION

Fasteners and studs up to 1" diameter.

MANDATORY SERVICE PRODUCTS (continued)

Gasket/paint remover **156**

(P/N 413 7085 00)

Loctite® 79040 Chisel
510 g (18 oz)

A00B3L4

APPLICATION

Clean mating surfaces of cylinders and crankcase. Remove carbon in combustion chambers.

Cleaning solvent **157**

(P/N 413 7082 00)

Loctite® 755-59
340 g (12 oz)

A00B3M4

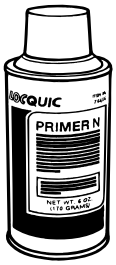
APPLICATION

Clean carburetor parts and degrease all oily surfaces.

Loctite® primer **158**

(P/N 413 7081 00)

Loctite® 764-56
Primer N
170 g (6 oz)



A00B3N4

APPLICATION

To prepare mating surfaces before applying paste gasket, retaining compound or threadlockers.

Silicone compound **159**

(P/N 420 8970 61)

Dow Corning® MS4

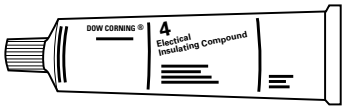
A00B3R4

APPLICATION

Lubricate pawl and pawl lock of rewind starter.

RECOMMENDED SERVICE PRODUCTS

Silicone dielectric grease **350**
(3 oz)
(P/N 413 7017 00)



A00B1X4

APPLICATION

On all electric connections. High tension coil and spark plug connections. Connector housings, etc.

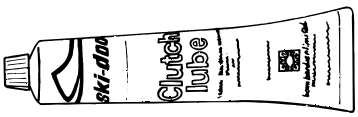
Grease LMZ no. 1 **351**
(400 g)
(P/N 413 7075 00)

A00B1Y4

APPLICATION

Mainly used between regulators or rectifiers and upper column to transfer the heat build-up and to assure a good ground.

Clutch lube **352**
60 mL (4 oz)
(P/N 413 8007 00)



A00B1Z4

APPLICATION

Roller round shaft drive pulleys.

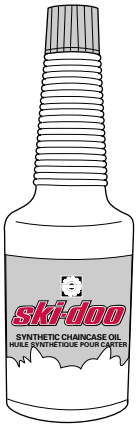
Chaincase oil **353**
(16 x 250 mL)
(P/N 413 8019 00)

A00B2R4

APPLICATION

Chaincase lubricant on Élan and Tundra II.

Synthetic chaincase oil **354**
(12 x 355 mL)
(P/N 413 8033 00)



A01B4Q4

APPLICATION

Chaincase lubricant on all models except Élan and Tundra II.

Blizzard oil **355**
(12 x 500 mL)
(P/N 413 8031 00)

A00B2Q4

APPLICATION

All models.

Injection oil
(P/N 413 8029 00) **356**
(12 x 1 liter)
(P/N 413 8030 00) **357**
(3 x 4 liter)

F01B2H4

APPLICATION

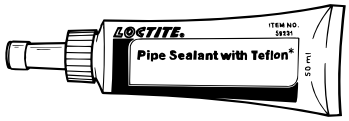
All engines.

RECOMMENDED SERVICE PRODUCTS (continued)

Pipe sealant **358**

(P/N 413 7023 00)

Loctite 592 (50 mL)



A00B2W4

APPLICATION

Engine plugs and senders.

High temperature threadlocker **359**

(P/N 420 8997 88)

Loctite 648 (green)
(5 g)

A00B3D4

APPLICATION

For RAVE valve rod distance nut on 583, 670 and 779 engines.

Anti-seize lubricant **362**

(P/N 413 7010 00)

Loctite anti-seize lubricant 454 g (16 oz)

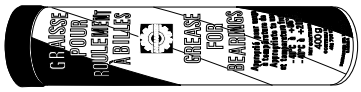
F01B174

APPLICATION

Unpainted surfaces of drive pulley countershaft.

Bearing grease **363**
(400 g)

(P/N 413 7061 00)



A00B2L4

APPLICATION

For idler bearings, ski legs, leaf spring cushion pads, seal interior lips, rear hub bearings, bogie wheels, countershaft bearings, etc.

Storage oil **364**
(350 g spray can)
(12 x 350 g)

(P/N 496 0141 00)

A00B384

APPLICATION

All models.

Degreaser **365**
(P/N 413 7084 00)

Permatex® 48 TA
433 g (15 oz)

A00B3K4

APPLICATION

Engine, chaincase, pulleys and any greasy surfaces.

RECOMMENDED SERVICE PRODUCTS (continued)

Gel instant adhesive **366**
(P/N 413 7083 00)
Loctite 454-40
20 g (.70 oz)

A00B3O4

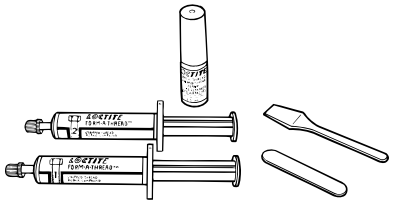
APPLICATION
Isolating foam and rubber strip.

Tough adhesive **367**
(P/N 413 4083 00)
Loctite Black Max 38004
3 mL (.10 oz)

A00B3P4

APPLICATION
Shifter boot or grip.

Stripped threads repair kit **368**
(P/N 413 7086 00)
Loctite 81668
Form-A-thread 81668



A00A1J4

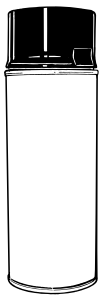
APPLICATION
Repair damaged threads of grade 5 (SAE) or 8.8 (metric) maximum. Do not use in applications where temperatures will exceed 149°C (300°F) or on critical assemblies.

HYLOMAR sealant **369**
(100 g)
(P/N 413 7071 00)

A00B3F4

APPLICATION
To form an oil resistant seal (ex: transmission).

Paint for frame touch-up **370**
(P/N 413 4010 00)
Black semi-gloss
(spray can)



A00B3H4

APPLICATION
All models with a black frame.

General purpose instant adhesive **373**
Loctite 495 (3 g)
(P/N 413 7032 00)

A00B2V4

APPLICATION
Rubber to metal bonding and most hard plastic.

RECOMMENDED SERVICE PRODUCTS (continued)

Sealant **374**
(P/N 413 7103 00)
Loctite 179 (80 mL)

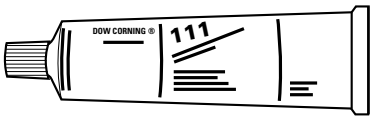
APPLICATION
All models.

Fuel stabilizer **375**
(12 x 8 oz)
(P/N 413 4086 00)

A00B3V4

APPLICATION
All models.

Molykote 111 **376**
(P/N 413 7070 00)



A00B3W4

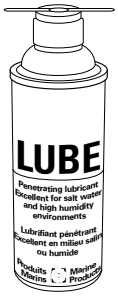
APPLICATION
Rotary valve shaft seals.

Shock oil **377**
(32 oz)
(P/N 413 7094 00)

A06F0P4

APPLICATION
MX Z T/A shocks.

Bombardier Lube **378**
(12 x 14 oz)
(P/N 293 6000 16)



A01B4P4

APPLICATION
Steering ball joints on all models.

Super Lube (grease) **379**
(P/N 293 5500 14)

NEW

A00B474

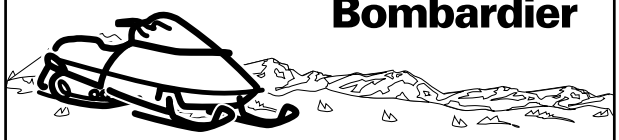
APPLICATION
Tie rod bushings.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier



SNOWMOBILES

S

SERVICE Bulletin

No. **96-12**

Date : December 22, 1995

SUBJECT : Fuel Octane Requirement

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	MACH Z / LT	1084, 1085, 1086, 1087, 1088, 1089	ALL

The fuel requirement for the Mach Z and Mach Z LT is incorrectly stated in some publications. The correct Mach Z fuel requirement is :

$$91\ \frac{R + M}{2}$$

as correctly stated on the fuel cap of the vehicle.

Correct page 40 and 109 in the *Operator's Guide* (P / N 414 9706 00) and the technical specifications of the *Shop Manual Volume 3* (P / N 484 0628 02) and *Predelivery Bulletin 96-13*.

Also inform your staff as well and your customers of this fuel requirement for the Mach Z.

▼CAUTION : Failure to use the proper fuel could result in non-warrantable and severe engine damage.

Litho'd in Canada (MBS-9616 RH)

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-13**

Date : December 22, 1995

SUBJECT : Spark Plug Fouling

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	FORMULA III / LT	1076, 1077, 1093, 1100, 1101, 1102	ALL

The above mentioned vehicles may foul the spark plugs. The following measures should be taken to ensure correct and enjoyable operation of these vehicles.

Please inform your customers and entire staff of these procedures

In addition to this bulletin a letter will be mailed to all registered owners of the previously mentioned vehicles to inform them of the changes in the *Operator's Guide*. A copy is attached to this bulletin.

NEW STARTING PROCEDURE

Follow the correct starting procedure listed here and make the appropriate corrections to page 45 in the *Operator's Guide* (P / N 414 9706 00).

O NOTE : It is especially important to closely follow this procedure during initial break-in. The engine is running slightly richer at this time because of the oil added to the first tank of fuel.

Initial Cold Starting

O NOTE : Do not use the throttle lever until after the choke lever is turned off.

Move the choke lever to position 2 and start the engine. As soon as the engine starts move the lever to position 1. After a few seconds (10 seconds maximum) move the choke lever to OFF.

O NOTE : In severe cold weather, colder than -20°C (-4°F) you may need to turn the choke on and off a couple of times to position 1 once the engine is started.

Warm Engine Starting

Start the engine without any choke. If the engine will not start after two pulls of the rope or two 5 second attempts with the electric starter move choke lever to position 1. Start the engine without activating the throttle lever. As soon as the engine starts move the choke lever to OFF.

SPARK PLUGS

On page 108 of the same *Operator's Guide* correct the spark plug type for the Formula III to NGK BR 10 ES.

AIR SCREWS

The air screws must be set to the specified 1-1/2 turns open. This will ensure proper operation of the vehicle in all temperatures.

▼ **CAUTION : Any setting greater than this could eventually lead to severe engine damage.**

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-14**

REVISION 1

Date : April 18, 1996

SUBJECT : Anti-Seize Lubricant on Acceleration and Control Modulator (ACM))

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	MX Z 440	1051, 1052, 1053	ALL
1996	MX Z 583	1094, 1095, 1096	ALL
1996	MX Z 670	1187, 1188	ALL
1996	Formula Z	1090, 1091, 1092	ALL
1996	Formula SS	1078, 1079, 1080	ALL

During regular maintenance or every 10 hours apply Loctite 767 anti-seize lubricant (P / N 413 7010 00) onto the ACM stem.

A container of Loctite anti-seize lubricant (454 g (16 oz)) will be sent directly to all dealers free of charge.

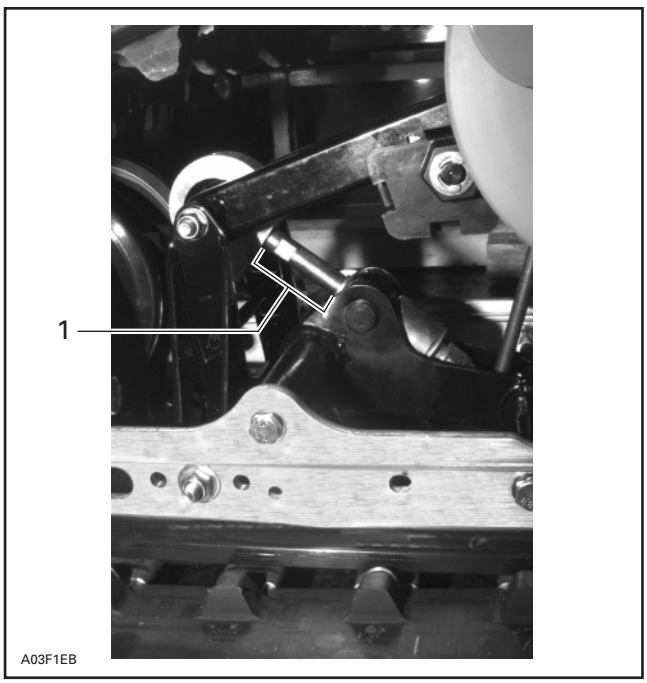
Dealers will be invoiced then a credit note will be issued.

▼CAUTION : Omitting to apply anti-seize lubricant on the ACM stem may result in ice build-up which may cause damage to the ACM mechanism.

PROCEDURE

Clean the ACM assembly of all grease, dirt and ice.

Compress rear suspension, hold and apply anti-seize lubricant generously onto the stem.



REAR SUSPENSION COMPRESSED

1. ACM stem, apply anti-seize lubricant to this area

Move suspension up and down several times to assure the anti-seize lubricant has penetrated throughout the ACM assembly.

Additional Information

▼CAUTION : Adding washers to the stem beneath the cup on the ACM will prevent the stem from extending fully when the suspension is compressed. End result, The stem WILL break or other components on the ACM assembly may fail.

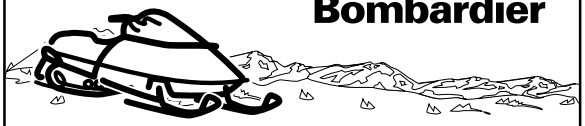
Please update the *Ski-Doo Shop Manual*, Volume 3, Section 07-01, Rear Suspension.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier



SNOWMOBILES

S

SERVICE Bulletin

No. **96-15**

Date : January 23, 1996

SUBJECT : Pulley Cleaning (Reminder)

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	ALL	ALL	ALL

At predelivery, it is very important to properly clean the drive and driven pulleys (especially for the high performance models) in order to remove the protective coating for the shipping.

Make sure the entire surface of the drive belt travel is clean; open the driven pulley as required to achieve a perfect cleaning.

Use Loctite Cleaning Solvent (P / N 413 7082 00) as usual.

If customer reports engine overreving condition, slippage, overheating or breakage of the drive belt, pulleys should be cleaned. Replace the drive belt as required.

▼CAUTION : Do not installed a new drive belt without properly cleaning the pulleys.

Litho'd in Canada (MBS-9619 FY)

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-16**

Replaces 95-14

REVISION 1

Date: March 11, 1996

SUBJECT: Ski-Doo Paint Codes

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	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 spring colors.

It is divided in 5 sections:

– Ski-Doo Paint Codes
– New Ski-Doo Paint Codes
– Frame Paint Codes
– Cylinder Head/Cover and Suspension Component Paint Codes
– Models with Corresponding Hood Paint Codes

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

SKI-DOO HOOD PAINT CODES

BOMBARDIER		B.A.S.F. R-M	PPG	SPRAY CAN
B101	CAN-AM RED		DCC 69917	
B102	SKI-DOO YELLOW 80		DCC 88208	413 4055 00
B103	PERFORMANCE ORANGE		DCC 69918	
B104	ICE ORANGE		DCC 69919	
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		DCC 69920	413 4035 00
B109	SAFARI RED	RM 84977 ①	DCC 78185 ②	
B111	SILVER		DBU 38261	413 4060 00
B114	POLAR WHITE	RM 86001	DCC 98197	
B121	SKI-DOO YELLOW 84	RM 84978	DCC 88209	413 4078 00
B122	SPECIAL WHITE		DCC 98198	
B123	SILVER GRAY	RM 84979	DBU 38260 ②	413 4040 00
B136	SUNSET ORANGE	RM 84980	DCC 69921	
B137	BLUE STRATOSPHERE	RM 84981	DBU 17877	

SKI-DOO HOOD PAINT CODES (CONTINUED)

BOMBARDIER		B.A.S.F. R-M	PPG	SPRAY CAN
B142	MAPLE RED	RM 84982	DBU 59965 ②	
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	
B148	SAND GRAY	RM 84986	DBU 38259	413 4093 00
B151	WILD BERRIES	RM 84987	DBU 78187 ① ②	
B152	SUNFLOWER YELLOW	RM 84988	DBU 88210 ① ②	413 4087 00
B153	SNOW WHITE	RM 80470	DBU 98199	
B154	PEARL WHITE	①	DBU 98200 ① ②	413 4088 00
B155	MAGENTA	RM 85000		
B156	MEDITERRANEAN BLUE	RM 79810	DBU 17878 ①	
B158	MULBERRY	RM 79888	DBU 59966	
B160	DEEP BLACK	RM 85366	DBU 9554	413 4091 00
B161	QUARTZ PINK	RM 85176 ①	DBU 78188 ① ②	
B162	PEACOCK BLUE	RM 21009 ①	DBU 49688 ① ②	
B163	PEARL BLUE	RM 85017 ①	①	413 4089 00
B164	AQUA BLUE	Refer to new paint codes		
B165	VIOLET	Refer to new paint codes		413 4090 00
B166	FLAME RED	Refer to new paint codes		
B167	BAVARIAN BLUE	RM 21618	DBU 18911	413 4097 00
B168	PLUM	RM 80348	Refer to new paint codes	
B169	FOREST GREEN	RM 79833 ③ RM 79833-4 ④	DBU 49591	413 4096 00
B170	METALLIC QUARTZ	RM 80262 ①	DBU 39002	
B172	TEAL BLUE	RM 87929 ①	DBU 18910	413 4103 00
B173	RASBERRY	RM 87365 ①	SICO: ID 3289	
B174	FIREFLY GREEN METALLIC	RM 80369 ③ RM 80369-46 ④		
B175	ROYAL VIOLET		DAU 51487-K	413 4104 00
B175A	ROYAL VIOLET NON-METALLIC	RM 87930 ③ RM 87930-9 ④		
B176	VIPER RED			413 4108 00
B177	OCEAN GREEN (METALLIC)	RM 88482		413 4109 00
B177A	OCEAN GREEN (NON-METALLIC)	RM 88480		

① A white undercoat must be applied: B.A.S.F. = 54-M25 R-M = BC 190 or 285-100
② Approximate match PPG = DMD 663
③ 1995 models and earlier
④ 1996 models

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

B-168 PLUM			
RM			
BC	50	=	83.4
BC	840	=	515.0
BC	300	=	730.9
BC	180	=	855.9
BC	250	=	864.6

FRAME PAINT CODES

BLACK	B-106
RED	B-109
BAVARIAN BLUE	B-167
METALLIC QUARTZ	B-170
OCEAN GREEN	B-177

CYLINDER HEAD/COVER PAINT CODES

Engine	Cylinder Head/Cover Color	Code
467	Yellow	B-152
582	Pearl Blue	B-163
583	Metallic Red	B-145
599	Magenta	B-155 ②
670	Plum	B-168
779	Plum	B-168

SUSPENSION COMPONENT PAINT CODES

Suspension spring and wheel color		B.A.S.F. FM	PPG
B-106	Black	RM 84976	DCC 9553
B-166	Flame Red (1993-1994	See new	See new
B-165	Violet	See new	See new
B-152	Yellow	RM 84988	DBU 88210 ②
B-163	Pearl Blue (Grand Touting)	RM 85017 ⑤	
B-164	Aqua Blue (1993 MX)	See new	See new
B-173	Raspberry	RM 87365 ⑤	
B-109	Safari Red	RM 84977 ⑤	DCC 78185 ②
B-174	Firefly Green (Metallic)	RM 80369 ③ RM 80369-64 ④	
B-175A	Royal Violet (non-metallic)	RM 87930 ③ RM 87930-9 ④	
B-177	Ocean Green (Metallic)	RM 88481	
B-178	Neon Green	RM 87961	

① Total mixed quantity does not equal 1 liter
② Approximate match
③ 1995 models and earlier
④ 1996 models
⑤ A white undercoat must be applied.
(See bottom of page 2)

MODEL WITH CORRESPONDING HOOD PAINT CODES

Description	Model number	Bombardier hood paint code
1996		
Élan	3053	B-160
Tundra II LT	3264	B-152
Tundra II LT (Sweden)	3265	B-152
Skandic 380 (Canada)	1534	B-160
Skandic 380 (U.S.)	1535	B-160
Skandic 380 (Sweden)	1536	B-160
Skandic 500 (Canada)	1531	B-160
Skandic 500 (U.S.)	1532	B-160
Skandic 500 (Sweden)	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 (Sweden)	1529	B-177A
Touring SLE (Canada)	1524	B-177A
Touring SLE (U.S.)	1525	B-177A
Formula S (Canada)	1523	B-176
Formula S (Sweden)	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 (Sweden)	1069	B-177
Grand Touring 580 (Canada)	1070	B-177
Grand Touring 580 (U.S.)	1071	B-177
Grand Touring 580 (Sweden)	1072	B-177
Grand Touring SE (Canada)	1073	B-177
Grand Touring SE (U.S.)	1074	B-177
Grand Touring SE (Sweden)	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 (Sweden)	1066	B-16
Summit 670 (Canada)	1061	B-169
Summit 670 (U.S.)	1062	B-169
Summit 670 (Sweden)	1063	B-169
MX Z 440 (Canada)	1051	B-152
MX Z 440 (U.S.)	1052	B-152
MX Z 440 (Sweden)	1053	B-152
MX Z 583 (Canada)	1094	B-152
MX Z 583 (Sweden)	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 (Sweden)	1093	B-175
Formula III LT (Canada)	1100	B-175
Formula III LT (U.S.)	1101	B-175
Formula III LT (Sweden)	1102	B-175
Formula SLS (Canada)	1049	B-176
Formula SLS (U.S.)	1050	B-176
Formula SLS (Sweden)	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 (Sweden)	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 (Sweden)	1083	B-160
Mach Z (Canada)	1084	B-160
Mach Z (U.S.)	1085	B-160
Mach Z (Sweden)	1086	B-160
Mach Z LT (Canada)	1087	B-160
Mach Z LT (U.S.)	1088	B-160
Mach Z LT (Sweden)	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 (Sweden)	3263	B-152
Skandic 380 (Canada)	1505	B-160
Skandic 380 (Sweden)	1507	B-160
Skandic 380 (U.S.)	1518	B-160
Skandic 500 (Canada)	1504	B-160
Skandic 500 (Sweden)	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 (Sweden)	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 (Sweden)	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 (Sweden)	1046	B-163
Grand Touring 580 (Canada)	1024	B-163
Grand Touring 580 (U.S.)	1025	B-163
Grand Touring 580 (Sweden)	1026	B-163
Grand Touring SE 670 (Canada)	1027	B-163
Grand Touring SE 670 (U.S.)	1028	B-167
Grand Touring SE 670 (Sweden)	1029	B-167
Summit 583 (Canada)	1013	B-169
Summit 583 (U.S.)	1014	B-169
Summit 583 (Sweden)	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 (Sweden)	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 (Sweden)	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 (Sweden)	1032	B-145
Formula SS (Canada)	1033	B-145
Formula SS (U.S.)	1034	B-145
Formula SS (Sweden)	1047	B-145
Mach 1 670 (Canada)	1043	B-160
Mach 1 670 (U.S.)	1044	B-160
Mach 1 (Sweden)	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 (Sweden)	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 (Sweden)	3694	B-172

Description	Model number	Bombardier hood paint code
1994		
Safari Rally E	3689	B-172
Skandic II 377	3685	B-160
Skandic II 377 R	3686	B-160
Skandic II 377 R (Sweden)	3690	B-160
Skandic II 503 R	3687	B-160
Skandic II 503 R (Sweden)	3691	B-160
Skandic II 503 R SLT	3688	B-160
Skandic II 503 R SLT (Sweden)	3692	B-160
Formula MX (Canada)	3868	B-152
Formula MX (U.S.)	3883	B-152
Formula MX (Sweden)	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) (Sweden)	3890	B-169
Formula STX (Canada)	3873	B-145
Formula STX (U.S.)	3893	B-145
Formula STX (Sweden)	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 (Sweden)	3879	B-163
Grand Touring XTC	3864	B-163
Grand Touring XTC (Sweden)	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 (Sweden)	3896	B-145
MACH 1	3863	B-160
MACH 1 (Sweden)	3880	B-160

Description	Model number	Bombardier hood paint code
1994		
MACH Z (Canada)	3877	B-160
MACH Z (Sweden)	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 (Sweden)	3678	B-160
Skandic 503 R (Sweden)	3679	B-160
Skandic 377 R (Sweden)	3680	B-160
Safari DL (Sweden)	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
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 (Sweden)	3854	B-154

Description	Model number	Bombardier hood paint code
1993		
Formula PLUS (Sweden)	3855	B-145
Formula PLUS XTC (Sweden)	3856	B-145
Grand Touring (Sweden)	3857	B-163
Formula PLUS EFI (Sweden)	3858	B-145
Formula MACH 1 (Sweden)	3859	B-160
Formula MACH 1 XTC (Sweden)	3860	B-160
Formula MX Z (Sweden)	3861	B-152
Formula MACH Z (Sweden)	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
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

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SNOWMOBILES

S

SERVICE Bulletin

No. **96-17**

Date : February 21, 1996

SUBJECT : Cold Temperature Carburetor Calibration

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	ALL	ALL	ALL

CARBURETOR

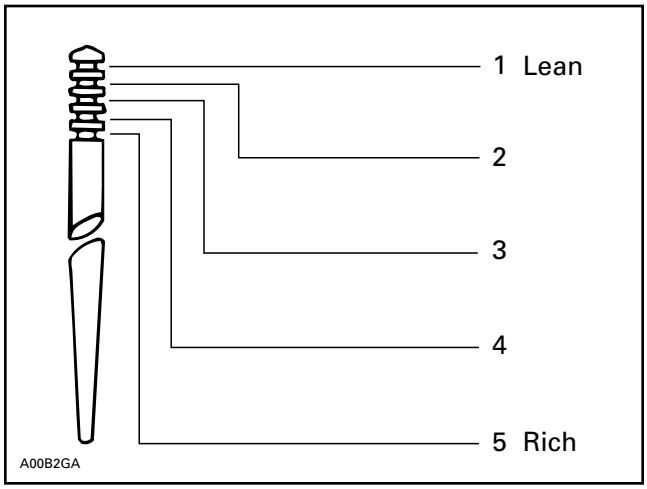
MX-Z 583

When operating in temperatures colder than –20°C (–4°F) the carburetion will need to be recalibrated.

▼CAUTION : This is especially important if the vehicle is being operated at a constant and / or high speed. If the procedure is not followed severe engine damage may occur.

Richen the mid-range by moving the circlip down one additional groove to position 4, from its original position 3, this raises the needle in the slide letting more fuel into the engine.

Refer to the following illustration.



Change the main jets as specified in the following chart.

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2 000 ft	1 200 m 4 000 ft	1 800 m 6 000 ft	2 400 m 8 000 ft	3 000 m 10 000 ft	
ñ 40∞C ñ 40 ∞F	*300* 280	*280* 260	*260* 240	*240* 220	*220* 200	*210* 190	*PTO* MAG
ñ 30 ∞C ñ 20 ∞F	*290* 270	*270* 250	*250* 230	*230* 210	*210* 190	*200* 180	*PTO* MAG
ñ 20 ∞C ñ 4 ∞F	270 260	250 240	230 220	210 200	190 180	180 170	PTO MAG
ñ 10 ∞C 14 ∞F	260 250	240 230	220 210	200 190	185 175	175 165	PTO MAG
0 ∞C 32 ∞F	255 245	235 225	215 205	195 185	175 165	165 155	PTO MAG
10 ∞C 50 ∞F	245 235	225 215	205 195	185 175	165 155	155 145	PTO MAG
20 ∞C 70 ∞F	235 225	215 205	195 185	175 165	155 145	145 135	PTO MAG

Litho'd in Canada (MBS-9622 RH)

ONOTE : For the MX-Z 583 the PTO side jet recommendation for –30°C (–20°F) and colder is new, discard prior jetting information. This information supersedes all prior specifications.

Other Models

All 1996 model year vehicles are calibrated for –20°C (–4°F) and will operate best at or near this temperature.

When a vehicle is operated in colder temperatures move the circlip on the jet needle one slot down as shown in the earlier illustration and change the main jets as specified in the following chart.

▼CAUTION : If these recommendations are not followed severe engine damage may occur.

The following chart is compiled from "High altitude and Sea level technical data sheets" P / N 484 0624 00 but lists cold weather main jet recommendations for Sea level only.

		MAIN JETS	
Vehicle	Ambient air temperature	-30∞C -20∞F	-40∞C -40∞F
Mach Z Mach Z LT	PTO CTR MAG	390 380 390	400 390 400
Mach 1	PTO MAG	430 410	440 420
Formula III Formula III LT	PTO CTR MAG	340 330 340	350 340 350
Formula SS		370	380
Formula Z		350	360
Formula STX Formula STX LT	PTO MAG	330 340	340 350
Formula SLS	PTO MAG	330	340
Formula SL	PTO MAG	200 190	210 200
Formula S		145	150

		MAIN JETS	
Vehicle	Ambient air temperarure	-30∞C -20∞F	-40∞C -40∞F
MX-Z 670	PTO MAG	310 280	320 290
MX-Z 440	PTO MAG	240 220	250 230
Grand Touring SE		370	380
Grand Touring 580	PTO MAG	370 380	390 400
Grand Touring 500		330	340
Touring SLE	PTO MAG	200 190	210 200
Touring LE		185	195
Touring E / E LT		145	150
Skandic 500	PTO MAG	200 190	210 200
Skandic 380		145	150
Skandic WT		230	240
Tundra II LT		200	210
...lan		165	170

ONOTE : Any model vehicle that is operated in temperatures colder than –20 °C (–4°F) needs the main jets changed as described in the previous chart. A more complete list of the different jetting for other temperatures and altitudes can be found in the "High altitude and Sea level technical data" sheets P / N 484 0624 00 mentioned previously.

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SNOWMOBILES

S

SERVICE Bulletin

No. **96-18**

Date : March 8, 1996

SUBJECT : New Drill Bit (for self-piercing rivets on chassis)

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	ALL	ALL	ALL

When drilling self-piercing rivets, use the new Supertanium™ drill bit (P / N 529 0318 00), now available in a 5 mm (3/16 in) size and shipped in packs of 2.

For proper drilling instructions and to prevent premature wear, follow the procedure below.

PROCEDURE

Always use a variable speed electric drill.

It is not necessary to center punch the rivet head, simply center the drill bit on the rivet and drill.

Maintain a slow to medium speed at all times when drilling. The proper speed is attained when a constant chip is ejected.

ONOTE : To increase bit life, use Bombardier synthetic chaincase oil (P / N 413 8033 00) as a cutting oil.

▼**CAUTION : High speed drilling will cause excessive heat which may destroy the cutting edge of the bit, therefore avoid using pneumatic drills.**

Order for the new Supertanium™ drill bit through the regular parts channel.

Please update the *Shop Manual*, section 09, BODY / FRAME with the bulletin number.

Litho'd in Canada (MBS-9623 PRM)

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SNOWMOBILES

S

SERVICE Bulletin

No. **96-19**

Date : March 6, 1996

SUBJECT : Steering Pad Switches

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	Grand Touring 670	1061, 1062, 1063	ALL
1995	Grand Touring 670	1027, 1028, 1029	ALL
1994	Grand Touring 670	3866	ALL

In the event that the thumb warmer and / or heating grips do not heat properly, the original connectors beneath the switches on the steering pad may come loose and fall off of the switches.

Replace original connectors with new ''click type'' connectors. Proceed as follows :

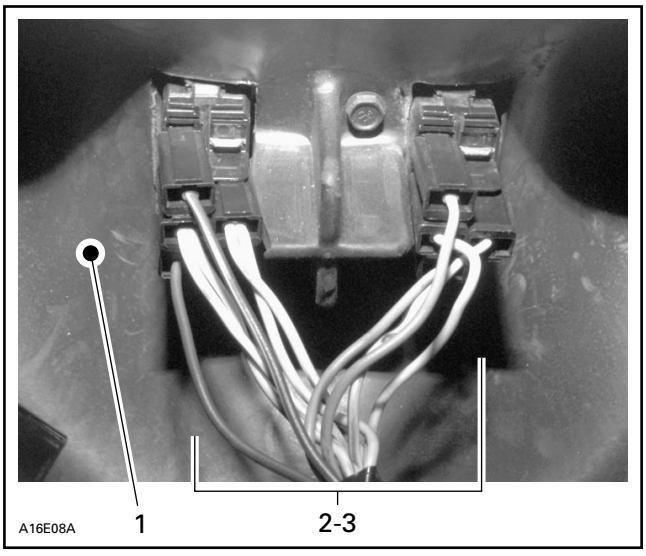
Remove steering padding.

Remove original connectors from switches.

Prior to removing connectors, identify wire colors and location for installation references.

▼CAUTION : Always remove connectors by pulling on connector housing. Never remove connectors by pulling on the wire.

Refer to the following photo.



1. Remove steering pad
2. Remove original connectors from switches
3. Note wire colors and location

Remove original connector housings and connectors from wires.

Install new 1-wire connectors (P / N 409 0101 00) as well as new 1-wire housings (P / N 409 0104 00) on the single wires and new 2-wire connectors (P / N 409 0106 00) and 2-wire housings (P / N 409 0104 00) on the double wires ; plug connectors to switches.

Order six 1-wire connectors and housings and two 2-wire connectors and housings.

Install remaining parts in the reverse order of removal.

Litho'd in Canada (MBS-9625 PRM)

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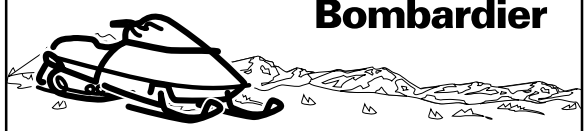

SNOWMOBILES

S

SERVICE Bulletin

No. **96-20**

Date : March 7, 1996

SUBJECT : Ignition Timing (BTDC)

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	Grand Touring 580	1070, 1071, 1072	ALL

The ignition timing data that was previously published for the above mentioned vehicles must be corrected.

The new ignition timing (BTDC) is 1.75 mm (.069 in).

NOTE : Ignition timing is performed when the engine is at 6000 RPM (engine cold) with headlamp turned on.

CAUTION : Severe engine damage may occur if this new adjustment is not performed.

Please ensure to correct all ignition timing data in the following 1996 publications ;

— *Shop Manual* (P / N 484 0628 01), SECTION 10, Technical data.

— *Predelivery Bulletin* No. 96-5, page 19 of 22, Technical data.

— *Specification Booklet* (P / N 480 1400 00), page 242.

— *Racing Handbook* (P / N 484 0623 00), SECTION 2, page 02-8.

Please route to :

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- Sales
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SNOWMOBILES

S

SERVICE Bulletin

No. **96-21**

REVISION 1

Date: June 10, 1996

SUBJECT: Stroboscopic Timing Light

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
ALL	ALL	ALL	ALL

With the new advanced technology used in Bombardier's products, a high performance stroboscopic timing light must be used to achieve an accurate timing reading.

In order to meet our specific characteristics this new stroboscopic timing light has been designed up to Bombardier standards.

This stroboscopic timing light is highly recommended to all Bombardier dealers.

PART

This new timing light, (P/N 529 0319 00), is now available and can be ordered through regular parts system.

A00B4FA

CHARACTERISTICS

1. Rated to work up to 6000 engine RPM.

   For example:

   a. On a 3-cylinder Bombardier engine, 6,000 RPM means 18,000 ignition sparks to monitor.

   b. On a 2-cylinder engine, 6,000 RPM means 12,000 ignition sparks to monitor.

▼ CAUTION

If an inadequate stroboscopic timing light is used, it may produce erratic and/or unstable lighting leading to severe engine damage.

2. A trigger inside the stroboscopic timing light will keep an equal lighting from 1 to 3 cylinder engines to optimize the beam power.

This feature will produce maximum battery efficiency and longer battery life.

3. The magnetic induction pick-up clip is totally reversible to ensure proper reading of system polarity and avoid erratic or non reading.
4. Will produce optimum lighting at a distance of 10 cm to 20 cm (4 in to 8 in) from the timing mark location.
5. Internal battery power. Uses two type D alkaline batteries.
6. Equipped with LED indicator to monitor battery condition. The indicator can be seen through the lens.
7. Scratches or surface damages on the lens will not affect the lighting efficiency.

Litho'd in Canada (MBS-9636 ML)

NOTE: The after market offers a huge variety of stroboscopic timing lights which look externally similar. Their performances are almost all different. The purchase of the stroboscopic timing light must be based on technical prerequisite.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-22**

Date : April 5, 1996

SUBJECT : Belt Slippage

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	SKANDIC WT	1537 / 1539	ALL
1995	SKANDIC WT	1515	ALL

The following is the procedure to solve the problem of drive belt slipping in the pulleys.

PROCEDURE

Check for proper alignment of the pulleys according to SKI-DOO specifications.

Verify proper driven pulley spring preload ((Pull + Release) / 2), according to SKI-DOO specifications.

Replace drive belt (P / N 414 6175 00) by (P / N 414 6338 00).

▼ **CAUTION : Do not install a new drive belt without properly cleaning the pulleys.**

Adjust belt deflection as per SKI-DOO specifications.

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-23**

Date : April 19, 1996

SUBJECT : Vehicle Storage Procedure

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	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. Any worn, broken or damaged parts should be replaced at this time.

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

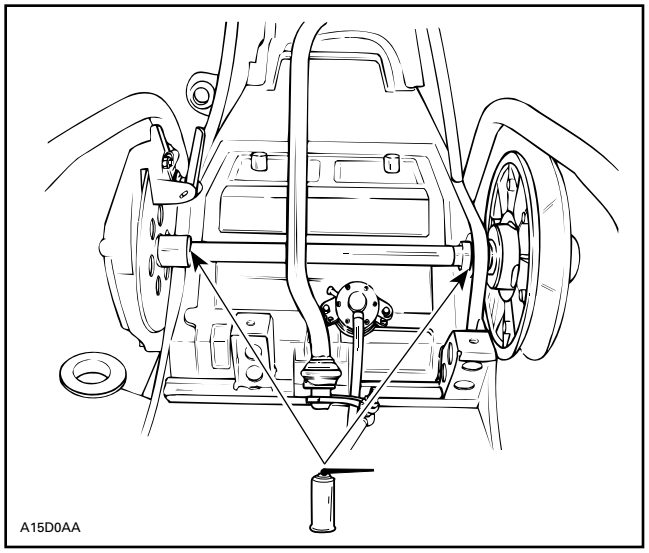
LUBRICATION / INSPECTION

Lubricate the steering mechanism. Inspect all components for tightness.

Oil all moving joints of the brake mechanism.

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

For proper operation, brake disc and driven pulley must slide freely on countershaft. Lubricate sparingly.



TYPICAL

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

Lubricate remaining recommended lubrication points. Refer to *Shop Manual*.

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 lubrification 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.

Litho'd in Canada (MBS9630PS)

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.

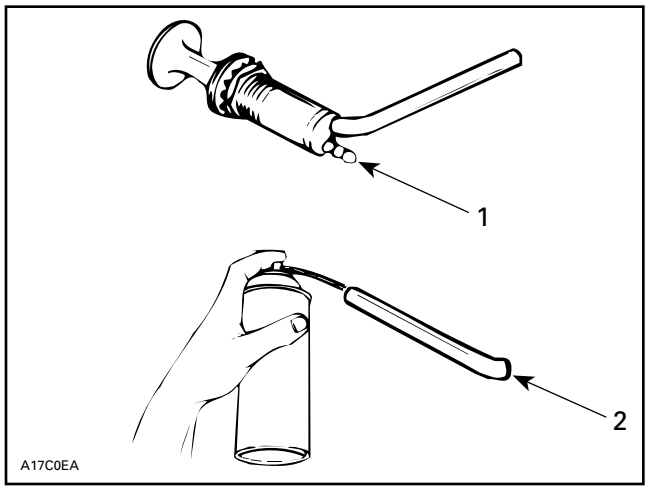
◆ WARNING : Ensure the track is free of all particles which could be thrown out while it is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no one is standing in close proximity to the vehicle.

- Stop the engine.

Models Equipped with a Primer

Refer to *1996 Operator's Guide* or *1996 Shop Manual* page 02-01-3.

- 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.

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.

◆ 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.

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 dielectric grease 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 8028 00)	Bombardier Mineral Oil (P / N 413 8019 00)
Skandic WT Grand Touring (All Models) Formula Z Formula STX Formula STX LT (2) Mach Z (All Models) Mach 1 Formula III (All Models) Formula SS MX-Z (All Models) Formula SLS Summit (All Models)	Skandic 500 Touring (All Models) Formula S Formula SL

▼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. **96-24**

Date : April 30, 1996

SUBJECT : Nippondenso CDI Trigger Coil Testing

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1993 to 1996	ROTAX ENGINES 2 cyl. and 3 cyl.	454, 467, 494, 582, 583, 599, 670 and 779	ALL

The tester setting for checking the trigger coil output has been changed.

The tester dial position must be set at 15 and the tester switch position set at LOW.

NOTE : The testing procedure remains the same. Only the tester setting is changed.

TRIGGER COIL OUTPUT

TESTER WIRES	COMPONENT WIRES	TESTER SWITCH POSITION	TESTER DIAL POSITION
N	BLUE / YELLOW Wire of trigger coil	LOW	15
P	WHITE / YELLOW Wire of trigger coil		

Please update your previous *Shop Manuals* as per the following references :

SHOP MANUAL REFERENCE

YEAR	SECTION	PAGE Testing Procedure	PAGE Summary Table
1993	04	04-06-17	04-06-19
1994	06	06-06-16	06-06-19
1995	06	06-06-16	06-06-19
1996 Vol. 2	06	06-06-3	06-06-6
1996 Vol. 3	06	06-06-4	06-06-7

Litho'd in Canada (MBS-9632 ML)

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-25**

REVISION 1

Date : May 16, 1996

SUBJECT : Crankshaft Deflection

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	FORMULA S (377)	1523, 1541	ALL
1996	FORMULA SL, (503)	1521, 1522, 1540	ALL
1996	FORMULA SLE (503)	1524, 1525, 1526	ALL
1996	TOURING E (377)	1530	ALL
1996	TOURING E (LT) (377)	1541, 1542, 1543	ALL
1996	TOURING LE (443)	1527, 1528, 1529	ALL
1996	SKANDIC 500 (503)	1531, 1532, 1533	ALL
1996	SKANDIC 380 (377)	1534, 1535, 1536	ALL
1996	SKANDIC WT (503)	1537, 1538, 1539	ALL

When checking crankshaft deflection on any of the above mentioned models, both crankshaft and crankcase must be replaced if crankshaft deflection exceeds the specified tolerance on PTO side and if internal wear is detected in crankcase.

Refer to the following tables to order the proper replacement parts.

PARTS REQUIRED

CRANKCASE ASSY (incl. Crankshaft, Crankcase and Seals)		
ENGINE TYPE	P/N	QTY
377/443	420 8814 97	1
503	420 8814 98	1

CRANKSHAFT ONLY		
ENGINE TYPE	P/N	QTY
377/443	420 8872 47	1
503	420 9964 47	1

CRANKCASE ONLY		
ENGINE TYPE	P/N	QTY
377/443	420 8877 81	1
503	420 8877 92	1

Rebuilt Crankshafts.

Rebuilt crankshafts may also be ordered through regular part channel.

REBUILT CRANKSHAFT ONLY		
ENGINE TYPE	P/N	QTY
377/443	421 0000 09	1
503	421 0000 11	1

CRANKSHAFT DEFLECTION MEASUREMENT

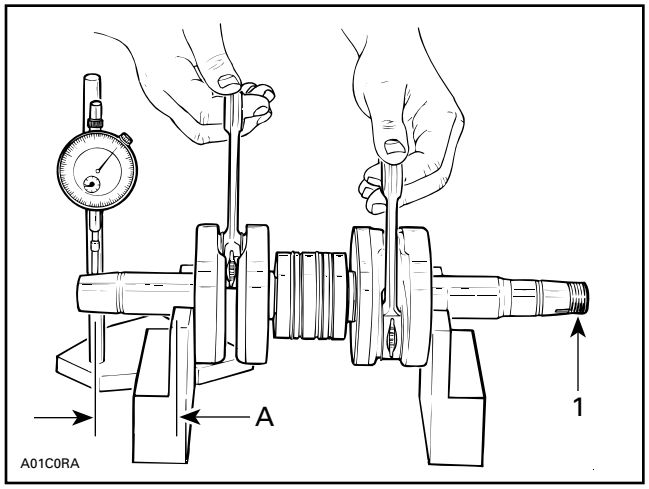
Crankshaft deflection is measured with a dial indicator.

Measuring (in Engine)

First, check deflection with crankshaft in engine. If deflection exceeds the specified tolerance, recheck deflection using V-shapped blocks to determine the defective part(s). See below.

Measuring (on bench)

Once engine is dissassembled, check crankshaft deflection on V-shaped blocks. If deflection exceeds the specified tolerance, it can be worn bearings or a bent crankshaft. Remove crankshaft bearings and check deflection again on V-shaped blocks to determine the defective part(s). See measurement A in the following illustration.



TYPICAL

1. Measure at mid point between the key and the first thread
A. See table below

Crankshaft Deflection on PTO Side

ENGINE TYPE	DISTANCE A mm (in)	MAXIMUM ON PTO SIDE mm (in)
377, 443	75.5 (2.972)	0.05 (.002)
503	82.8 (3.248)	0.06 (.002)

Crankshaft Deflection on MAG Side

ENGINE TYPE	MAXIMUM ON MAG SIDE mm (in)
ALL	0.03 (.001)

Crankshaft Deflection in Center of Crankshaft

ENGINE TYPE	MAXIMUN IN CENTER OF CRANKSHAFT
ALL	0.08 mm (.0031 in)

NOTE : Crankshaft deflection can not be correctly measured between centers of a lathe.

If the deflection exceeds the specified tolerance, crankshaft should be repaired or replaced

Update the 1996 *Ski-Doo Shop Manuals, Volume 1, Volume 2 and Volume 3,* by adding this information in Section 04, Engine, of the concerned manuals.

Please route to :

Init.

- Service
- Sales
- Parts

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-26**

Date : May 24, 1996

SUBJECT : Shock Absorbers Trouble-shooting

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1996	ALL	ALL	ALL

SUSPENSION INSPECTION

In the case that vehicle bottoms out, check the two following points:

1. Check for proper spring adjustment according to rider weight.
2. Check for ice or snow accumulation and clean it.

SHOCK ABSORBER INSPECTION

Remove shock absorber from suspension.Refer to *Ski-Doo Shop Manual* for proper procedure.

Position piston rod straight up and secure shock body end in a bench vise with soft jaws.

▼ CAUTION

Do not clamp directly on shock body.

Examine shock for leaks. Compress and extend the piston several times over its entire stroke checking that it moves smoothly and with uniform resistance.

Pay attention to the following conditions that will denote a shock that needs replacement.

Frozen Shock Absorber (All Types)

Keep shock absorber in a frozen area for 4 hours. Compress and extend piston rod. Piston will offer more resistance compare to a new one.

Internal Pressure Lost (HPG Racing Only)

Compress piston rod over entire stroke. Piston rod will not move back by itself after complete compression.

Gaz Leaks in Oil Chamber (HPG Racing Only)

Check that piston rod is fully extend. Wait 5 minutes to allow gaz transfer. Fully compress piston rod over entire stroke. Piston will skip or move with a non-uniform resistance.

NOTE : On HPG Racing shock absorbers, make sure that sealing point is aligned. If not, warranty is void.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-27**

Date: September 16, 1996

SUBJECT: Muffler Shell

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1997	Grand Touring* SE	ALL	ALL
1997	Grand Touring 583	ALL	ALL
1997	Mach* 1 (699)	ALL	ALL
1997	Formula* Z	ALL	ALL
1997	Formula 583	ALL	ALL
97-96	Grand Touring 500	ALL	ALL
97-96	MX Z* 670	ALL	ALL
97-96	MX Z 583	ALL	ALL
97-96	MX Z 440	ALL	ALL
97-96	Summit* 670	ALL	ALL
97-96	Summit 583	ALL	ALL
97-96	Summit 500	ALL	ALL
97-96	Formula 500(SLS)	ALL	ALL
97-96-95	Mach Z/Mach Z LT	ALL	ALL
97-96-95	Formula III/Formula III LT	ALL	ALL
96-95	Mach 1 (2 pipes)	ALL	ALL

In the event that muffler shell attachment points break, muffler shells only can be replaced with new ones. All applicable models are listed on the above chart.

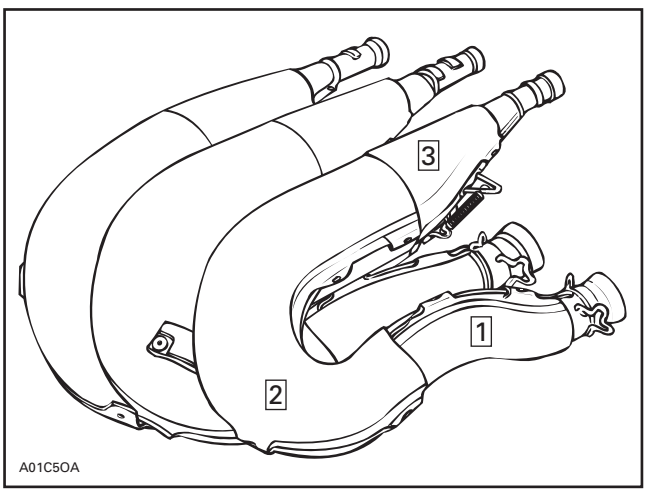
PARTS REQUIRED

DESCRIPTION	P/N
MUFFLER SHELL	Refer to following chart on next page
RIVET	390 4023 00
REINFORCEMENT CLEAT	514 0465 03
WASHER	517 2259 00

MUFFLER SHELL P/N CHART

YEAR	MODEL	MUFFLER SHELL		P/N
97-96	Grand Touring 500 Summit 500 Formula 500(SLS) MX Z 440	UPPER SHELL LOWER SHELL (1996) LOWER SHELL (1997)		514 0440 20 514 0440 21 514 0485 04
97-96 97-96 97-96 97-96 97 97 97	Summit 583 Summit 670 MX Z 583 MX Z 670 Formula 583 Formula Z Grand Touring 583	UPPER SHELL LOWER SHELL		514 0446 10 514 0446 11
97-96-95 97-96-95 97 97	Mach Z/Mach Z LT Formula III/Formula III LT Mach 1 (699) Grand Touring SE	PTO	RIGHT FRONT SHELL (1) LEFT FRONT SHELL (1)	514 0380 10 514 0380 11
		CENTER/MAG	RIGHT FRONT SHELL (1) LEFT FRONT SHELL (1)	514 0378 10 514 0378 11
		PTO/CENTER/MAG	LOWER MID SHELL (2) UPPER MID SHELL (2)	514 0378 15 514 0378 16
			LOWER REAR SHELL (3) UPPER REAR SHELL (3)	514 0378 17 514 0378 18
96-95	Mach 1 (2 pipes)	PTO	LOWER SHELL UPPER SHELL	514 0415 05 514 0415 06
		MAG	LOWER SHELL UPPER SHELL	514 0416 05 514 0416 06

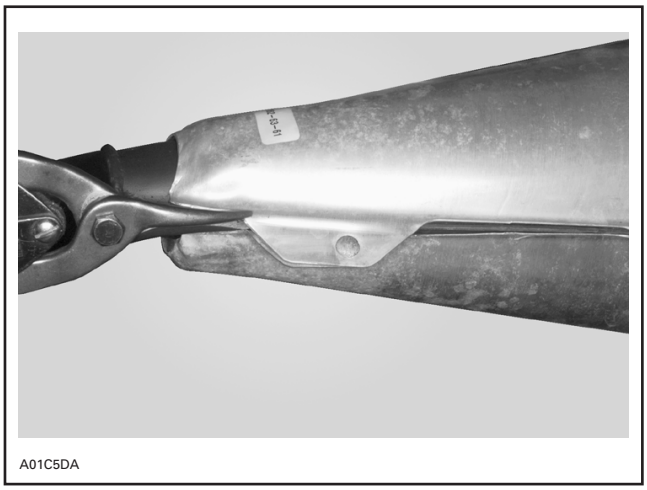
(1), (2) and (3) from the above chart refer to the following illustration.



PROCEDURE

Remove muffler.

Bend attachment point tabs upward and cut with metal cutting tool, as shown on the next photo.



TYPICAL — CUT ATTACHMENT POINT TAB

Remove lower and upper shells.

Remove existing insulators and reinstall them in new shells.

NOTE: Ensure not to damage material when removing insulators.

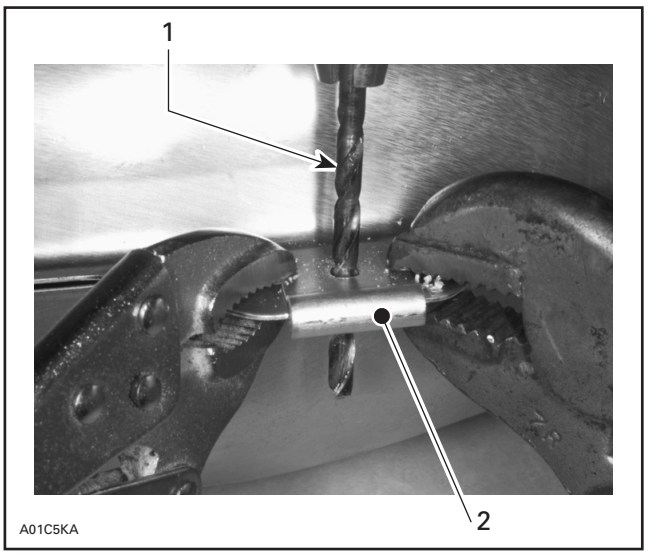
Position new shell onto muffler.

Position reinforcement cleat onto attachment point tab and secure with VISE-GRIP pliers.

Using a 4.8 mm (3/16 in) drill bit, drill a hole, as shown on the next photo.

◆ WARNING

When drilling, do not hold reinforcement cleat by hand.



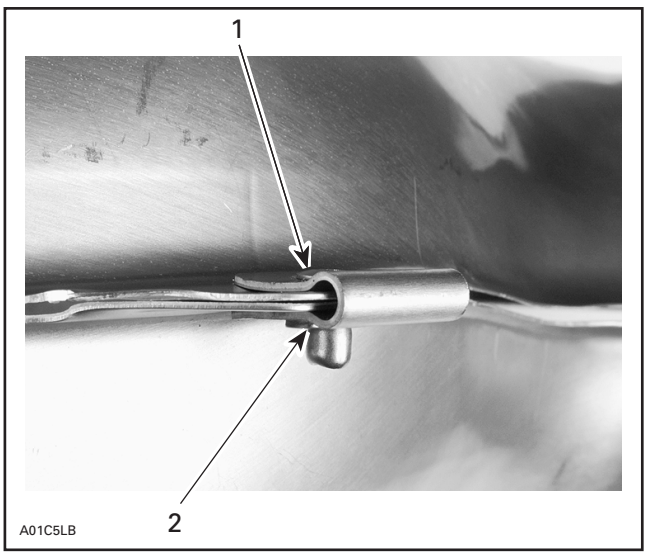
1. *Drill bit 4.8 mm (3/16 in)*
2. *Reinforcement cleat*

Remove pliers.

Remove burrs from hole edges.

Secure reinforcement cleat with rivet and washer, as shown on the following photo.

NOTE: Position washer on the bottom side of the reinforcement cleat.



1. *Rivet head*
2. *Washer*

Repeat procedure for all muffler shell attachment tabs.

▼ CAUTION

Bend tabs as per previous assembly in order to avoid contact between tuned pipes.

Reinstall muffler.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-28**

Date: September 19, 1996

SUBJECT: SC-10 Suspension Kit Update

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1996	FORMULA III	ALL	ALL
1996	MACH Z	ALL	ALL

In SC-10 suspension conversion kit (P/N 861 7597 00), a small quantity of instruction sheets (P/N 415 0720 00) are in error.

On page 2 of 3 in the INSTALLATION section of the instruction sheet, it is indicated to drill holes using a 6 mm (15/64 in) drill bit, which is incorrect.

THE ACTUAL DRILL BIT SIZE REQUIRED IS 4.8 mm (3/16 in).

The attached instruction sheet has been corrected and should be used in order to properly complete the installation. Look for the black arrows in the marge to identify where the corrections have been made.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-29**

Date: October 15, 1996

SUBJECT: Pre-Season Inspection (Owner's Expense)

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
ALL	ALL	ALL	ALL

Proper vehicle inspection is necessary after summer months or when a vehicle has not been used for more than one month. Any worn, broken or damaged parts should be replaced.

◆ WARNING

Unless otherwise specified, engine should be turned off for lubrication and inspection procedures.

LUBRICATION/INSPECTION

Lubricate the steering mechanism. **Inspect all components for tightness**.

For proper operation, brake disc and driven pulley must slide freely on countershaft. Lubricate sparingly.

◆ WARNING

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

Lubricate remaining recommended lubrication points. Refer to *Shop Manual*.

FUEL SYSTEM

Remove rags from air intake and exhaust system.

Check fuel filter in reservoir for any damage. Replace as necessary.

Check fuel valve and primer/choke proper operation.

Inspect fuel system for any leaks.

Inspect throttle cables for proper synchronization. Refer to section ***ENGINE*** *(CARBURETOR AND FUEL PUMP)* in *Shop Manual*.

ENGINE

Perform a leak test on the engine to check all seals and gaskets. Refer to section ***ENGINE*** *(LEAK TEST)* of *Shop Manual.*

Check oil level in oil tank, add oil as necessary.

▼ CAUTION

Use Bombardier Rotax injection oil mineral or synthetic.

Check condition of spark plugs. Replace if necessary. Refer to section ***ELECTRICAL*** *(SPARK PLUGS)* in *Shop Manual*.

COOLING SYSTEM

Perform a cooling system leak test as described in section ***ENGINE*** *(LEAK TEST)* of *Shop Manual*.

Check coolant level in coolant reservoir. Add coolant if necessary.

TRANSMISSION/CHAINCASE

Check drive chain and adjust if necessary. Chaincase oil should have been changed in the vehicle storage procedure. If not, drain then refill with proper amount of Bombardier synthetic chaincase oil (P/N 413 8033 00). For Elan and Tundra II only, use chaincase oil (P/N 413 8019 00). Refer to section ***TRANSMISSION*** *(CHAINCASE)* from *Shop Manual*.

Litho'd in Canada (MBS-9641 PS)

BRAKE SYSTEM

Inspect brake pads for proper thickness. Refer to section ***TRANSMISSION*** *(BRAKE)* from *Shop Manual*.

Hydraulic Brake

Check brake fluid in reservoir for proper level. Add fluid (DOT) as required.

▼ CAUTION

Use only (DOT 4) brake fluid from a sealed container. Do not store or use a partial bottle of brake fluid.

Inspect brake pads for proper thickness. Refer to section ***TRANSMISSION*** *(BRAKE)* from *Shop Manual*.

Mechanical Brake

For vehicles equipped with ratchet wheel, check for proper ratchet operation. Refer to section ***TRANSMISSION*** *(BRAKE)* from *Shop Manual*.

DRIVE AND DRIVEN PULLEYS

Clean drive and driven pulleys.

Check for proper driven pulley alignment and spring pre-load. Refer to section ***TRANSMISSION*** *(DRIVE AND DRIVEN PULLEY)* from *Shop Manual*.

Inspect belt for cracks, fraying or abnormal wear. Replace as necessary.

SUSPENSION

Examine all shock absorbers for any leaks if so, replace with new one.

Rear Suspension

Inspect stopper straps, stopper rubbers, idler wheels, slider shoes and track for abnormal wear.

Front Suspension

Inspect skis and runner shoes, replace as necessary. Refer to section ***STEERING/FRONT SUSPENSION*** *(SUSPENSION AND SKI SYSTEM)* from *Shop Manual*.

BATTERY (IF EQUIPPED)

Check electrolyte level in battery. Refill as necessary with distilled water. Fully charged battery.

◆ WARNING

Never charge or boost battery while installed on vehicle.

◆ WARNING

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

Reinstall battery in vehicle. Refer to section ***ELECTRICAL*** *(BATTERY)* from *Shop Manual* for proper procedure.

◆ WARNING

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

FINAL INSPECTION

Check rewind starter rope condition.

Inspect all electrical connectors and apply dielectric grease (P/N 413 7017 00), as necessary.

Inspect spark plug cables condition and proper connection.

Start engine and check for proper engine and electrical operation.

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. **96-30**

Date: November 7, 1996

SUBJECT: Choke Nut Tool

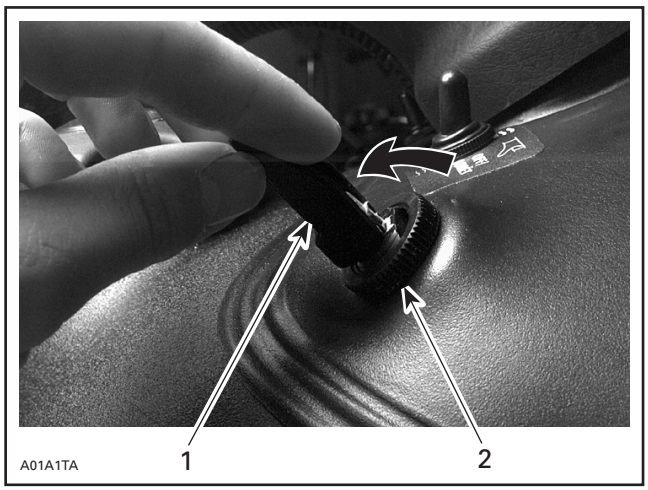
YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
1997	SKANDIC* 380/500/WT/SWT	1120/1121/1122/1117 1118/1119/1134/1135 1189/1136/1137/1190	ALL
1997	MACH* 1	1177/1178/1179/1180 1181/1182/1183/1184 1185	ALL
1997	MX Z* 440	1171/1172/1173	ALL
1997	FORMULA* III/III LT	1148/1149/1150/1151 1152/1153	ALL
1997	FORMULA* S/SL	1108/1109/1106/1107	ALL
1997	TOURING* SLE/LE/E/ELT	1110/1111/1112/1113 1114/1115/1116/1186	ALL
1996	FORMULA* III/III LT	1076/1077/1093/1100 1101/1102	ALL
1996	FORMULA* S/SL	1523/1541/1521/1522 1540	ALL
1996	TOURING* SLE/LE	1524/1525/1526/1527 1528/1529	ALL
1996	SKANDIC* 500/WT	1531/1532/1533/1537 1539	ALL
1995	FORMULA* III	1038/1039	ALL
1995	SKANDIC* WT MOUNTAIN* SP	1515/1516	ALL

A new recommended tool is now available. This tool may be used in order to not damage the choke nut.

DESCRIPTION	P/N
CHOKE NUT TOOL	529 0322 00

PROCEDURE

Set choke lever to half opened position, as shown on the next photo.

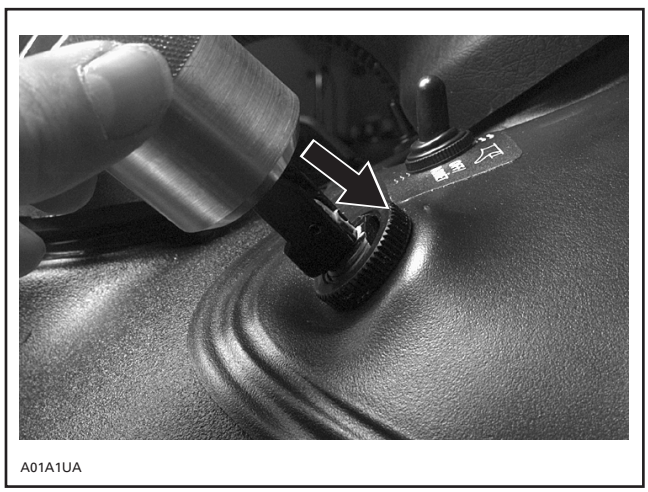


TYPICAL — CHOKE LEVER SET TO HALF POSITION

1. *Choke lever*
2. *Choke nut*

Intall choke nut tool onto choke nut then unscrew or tighten as required.

NOTE: Ensure that tool teeth properly fit with nut teeth. Refer to the following photo.



INSTALL TOOL ONTO CHOKE NUT

Please route to :

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

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SERVICE Bulletin

No. **96-31**

UPDATE

Date: January 24, 1997

SUBJECT: Technical Data

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
1996	Canada and United States: Formula* Z	1090 and 1091	ALL
1996	Sweden: Formula Z	1092	ALL

The technical data sheet, page 10-02-2 from *1996 Ski-Doo Shop Manual Volume 3*, for the above mentioned models has been updated.

Please update your *1996 Ski-Doo Shop Manual Volume 3*, with the following table.

DESCRIPTION	DATA
Carburetor Type	VM 40 325/326
Main Jet	340/340
Needle Jet	224 AA-2
Pilot Jet	45
Needle Identification — Clip Position	7DL7-3