

**SNOWMOBILES**

Service Bulletin

SERVICE BULLETIN LIST

BULLETIN NO.	SUBJECT	APPLICABLE TO
81-11	Crankshaft locking tool	1981 Everest LC Futura LC
81-12	- Fuel filter - Fuel gauge cover	All 1981 Everest 500/E, Everest LC Futura 500/E, Futura LC
81-13	- Driven pulley disassembly - Throttle and brake handle housing	1979 Blizzard 5500-9500 Grand Prix Special 1980-81 Blizzard and Everest (all models) 1980-81 Grand Prix Special Grand Prix MX Super & Ultra Sonic Futura (all models) 1981 Blizzard (all models) Grand Prix Special Grand Prix MX Super & Ultra Sonic
81-14	- Gear ratio - Spring coupler - Ski leg washer	1980-81 Blizzard 9500 Ultra Sonic Citation SS Mirage Special 1981 Citation/Mirage (all models) 1980 Citation/Mirage (all models)
81-15	1981 Bombardier Snowmobiles Shop Manual Supplement	All

BULLETIN NO.	SUBJECT	APPLICABLE TO
81-16	Brake light switch	1981 Blizzard (all models) Grand Prix Special & MX Super & Ultra Sonic
81-17	- Drive & driven pulley removal - Fuel tank air vent - Suspension cross shaft screws	1981 Blizzard (all models) Grand Prix Special & MX Super & Ultra Sonic Everest (all models) Futura (all models) All units equipped with slide suspension
81-18	Emergency cut-off switch label	All 1981 models equipped with lever type emergency cut-off switch
81-19	Headlamp replacement bulb	All 1981 models Except Elan, Spirit & Nordik
81-20	Fuel line routing	All 1981 models
81-21 REVISION 1	Suspension spring cross reference chart	1981 Everest 500-500E Futura 500-500E Everest & Futura LC Blizzard 5500,7500,9500 Grand Prix Special Super & Ultra Sonic
81-22	Bushing replacement procedure	1981 Blizzard MX Grand Prix MX
81-23	Alternative spark plug	1981 Citation 3500, 4500,4500E Citation SS Mirage I, II, IIE, Special Nordik Everest 500, 500E, LC Futura 500, 500E, LC Blizzard 5500, MX Grand Prix Special Grand Prix MX Elite
81-24 REMINDER	Engine storage protection	All
81-25	Mikuni carburetor float level adjustment	All

BULLETIN NO.	SUBJECT	APPLICABLE TO
81-26 REVISION 1	Cooling fan "V" belts	All fan cooled engines Ski-Doo and Moto-Ski snowmobiles since 1975
81-27	Rotary valve adjustment (Replaces no. 80-7)	Rotary valve engine
81-28	Speedo cable protector	1981 Everest/Futura 500-500E Everest/Futura 464 LC Blizzard 5500/Sonic Blizzard 9500/Ultra Sonic
81-29	Volatile corrosion inhibitor	All 1982 snowmobiles



SNOWMOBILES

Service Bulletin

no.82-12

Date: May 14, 1982

MODELS: ALL

Serial nos: ALL

Subject: Bosch/N.G.K. Spark Plug
Conversion Chart

This conversion chart has been established for the 1980, 1981 and 1982 snowmobiles models. For the older models, this chart can be used as a guide. The spark plug carbon analysis remains the best way to properly identify the right heat range.

▼ **CAUTION:** Severe engine damage can occur if a wrong heat range plug is used:

A too "hot" plug will result in overheating and re-hot points pre-ignition, etc.

A too "cold" plug will result in fouling (shorting the spark) or may create carbon build up which can heat up red-hot and cause pre-ignition or detonation.

CONVERSION CHART

N.A.: Not applicable

BOSCH		N.G.K.	
Spark Plug Identification	Bombardier Part Number	Spark Plug Identification	Bombardier Part Number
M 175T1	420 999 841	A-6	N.A.
M 225T1	420 999 141	A-7	284 001 027
M 240T1	420 999 881	A-7	284 001 027
M 260T1	420 899 731	A-8	284 001 028
M 280T31	420 999 230	A-8	284 001 028
W 225T1	420 999 190	B7HS	284 001 050
W 250T1	420 897 010	B7HS	284 001 050
W 240MZ1	420 899 121	B7HS	284 001 050
W 240T1	420 899 120	B7HS	284 001 050
W 260T1	420 899 180	B8HS	284 001 053
W 260MZ1	420 899 181	B8HS	284 001 053
W 275T1	420 897 020	B9HS	284 001 056
W 280MZ1	420 899 890	B9HS	284 001 056
W 250T2	420 899 940	BR7ES	414 478 800 284 001 034
		B7ES	284 001 048
W 260MZ2	420 899 721	B8ES	414 482 900 284 001 051
W 275T2	420 899 920	BR8ES	414 478 900 284 001 036
W 280MZ2	420 899 570	B8ES	414 482 900 284 001 051
W 300T2	420 899 576	B9ES	284 001 054
		B9EV	284 001 055
W 340S2S	420 899 476	B10EV	284 001 058

**SNOWMOBILES**

Service Bulletin

1982**SERVICE BULLETIN LIST**

BULLETIN NO.	SUBJECT	APPLICABLE TO
82-1	Armature plate replacement part	1982 Blizzard 5500 MX/9500 Sonic & Ultra Sonic
82-2	N.G.K. spark plug replacement part	1979-80-81 Vehicles equipped with 277, 377, 464 and 503 engine types
82-3	Engine retaining bracket ass'y	1980 Blizzard 7500/9500 Blizzard 7500/9500 Eur. Super & Ultra Sonic 1981 Blizzard 7500/9500 Super & Ultra Sonic
82-4	- 1982 Engine & vehicle technical data posters and binder sizes corrections - 1982 Operator's manual specification section correction	1982 Citation 3500/4500E/SS Mirage I/IIE/ Special Nordik, Skandic, Futura 300 & LC Blizzard 9500 Everest LC Ultra Sonic
82-5	Removal of Skandic hood grills	1982 Skandic
82-6	Battery installation	1982 Elite
82-7	Hitch bracket reinforcement tip	1982 Nordik/Nordik Europe Skandic
82-8	Carburetors adjustment	1982 Blizzard 9500 Ultra Sonic
82-9	Information on high altitude and/or deep snow calibrations	1982 All snowmobiles

BULLETIN NO.	SUBJECT	APPLICABLE TO
82-10	Vehicle storage procedure (engine and primer valve)	All
82-11	1981 Red and blue pilot lamps	1981 Everest & Elite
82-12	Bosch/N.G.K. spark plug conversion chart	All

**SNOWMOBILES**

Service Bulletin

no. 81-29

Date: 1981 05 26

MODELS: ALL 1982 SNOWMOBILES

Serial nos: All

Subject: Volatile Corrosion Inhibitor

All the 1982 vehicles are protected against rust during shipment by a new product called "Volatile Corrosion Inhibitor".

It is necessary to remove and discard this capsule at pre-delivery.

The capsule locations for the different models are as follows:

- Elan - Spirit
(On the cylinder cowl - exhaust side)
- Citation 3500 - Mirage I
Citation 4500 - Mirage II/E
Citation SS - Mirage Special
Nordik - Skandic
(On the cylinder cowl)
- Everest 500/E - Futura 500/E
Blizzard 5500 MX - Sonic
(On the cylinder cowl near the forced flow tube)
- Everest LC - Futura LC
(On top of the magneto housing, side to rewind starter).
- Elite
(On the oil injection tank between the engine and the exhaust pipe)
- Alpine
(On the fan housing - exhaust side)

Please send your comments on the efficiency of this new product to your distributor.



SNOWMOBILES

Service Bulletin

no. 82-1

Year: month: day:
Date: 1981 05 08

Serial nos: All

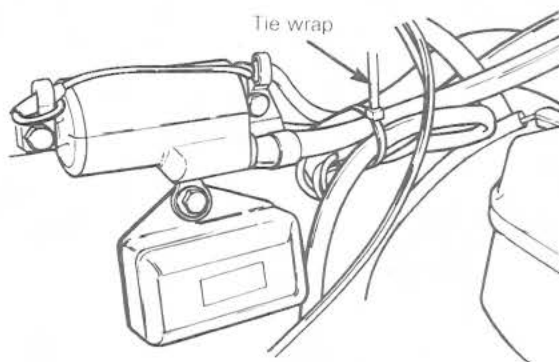
**MODELS: 1982 BLIZZARD 5500 MX
BLIZZARD 9500**

**1982 SONIC
ULTRA SONIC**

Subject: Armature plate replacement part

The wires of the replacement part armature plate assembly (P/N 420 866 650) for above listed models will be longer than on the original part on the vehicle.

When installing this replacement part, secure the wiring using a tie wrap, as illustrated.



This will avoid loose wires from touching moving or rotating parts.



SNOWMOBILES

Service Bulletin

no. 82-2

Date: 1981 06 12

Serial nos: All

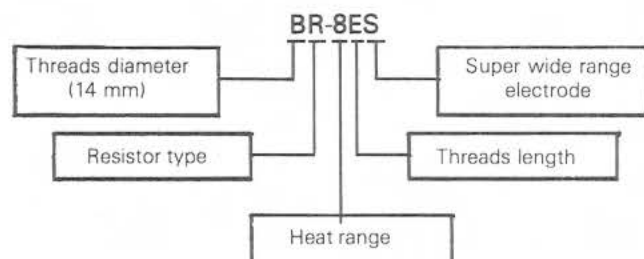
**MODELS: 1979, 1980 AND 1981 VEHICLES
EQUIPPED WITH 277, 377, 464 AND
503 ENGINE TYPES**
Subject: N.G.K. Spark plug replacement part

The 1982 vehicles using 277, 377, 464 and 503 engine types will be equipped with N.G.K. spark plugs.

It is possible to install the N.G.K. spark plugs to the same engine types previously used on 1979, 1980 and 1981 vehicles. If the standard Bosch W 250 T 2 (W 4 C) - (P/N 420 899 940) needs to be replaced, you can use the new N.G.K. BR-7ES spark plug (P/N 414 4788 00).

If the standard Bosch W 275 T 2 (W 3 C) - (P/N 420 899 920) needs to be replaced, you can use the new N.G.K. BR-8ES spark plug (P/N 414 4787 00).

The N.G.K. spark plug numbering system is as follows:



NOTE: A N.G.K. BR-8ES is colder than a N.G.K. BR-7ES.



SNOWMOBILES

Service Bulletin

no. 82-3
(REVISION 1)

Date: 1982 04 28

Serial nos: 3570, 3571, 3573, 3574
3577, 3579, 5313, 5314
5316, 5317

MODELS: 1980 BLIZZARD 7500
BLIZZARD 7500 (EUR)
BLIZZARD 9500
BLIZZARD 9500 (EUR)
SUPER SONIC
ULTRA SONIC
1981 BLIZZARD 7500
BLIZZARD 9500
SUPER SONIC
ULTRA SONIC

Subject: Engine retaining bracket ass'y

The 1982 Blizzard 9500 & Ultra Sonic are equipped with an engine retaining bracket ass'y. This feature will add extra life to the drive belt by preventing the engine from twisting upon acceleration.

In order to update our product, it is possible to install this retaining bracket on the above listed vehicles using the following parts:

- | | |
|--------------------|-----------------|
| - 1 Retainer plate | P/N 512 035 200 |
| - 2 Screws | P/N 222 082 065 |
| - 2 Lockwashers | P/N 224 781 140 |
| - 1 Hook weldment | P/N 512 035 300 |
| - 1 Brace | P/N 512 035 400 |
| - 2 Nuts | P/N 396 302 400 |

INSTALLATION:

- Install the hook weldment to the engine support.
- Install the retainer plate to the engine crankcase electric starter location. Secure it using the two (2) screws and lockwashers. Torque to 20-27 N•m (15-20 ft-lbs).

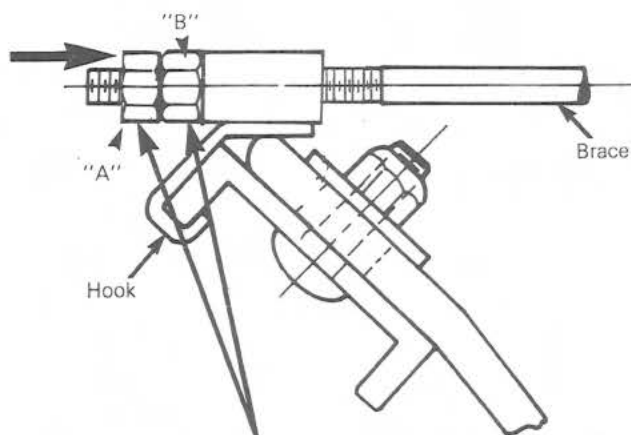
○ NOTE: Ensure the retainer plate brace hole is located to its highest position.

▼ CAUTION: Ensure that the crankcase halves are grooved the same as an electric engine type.

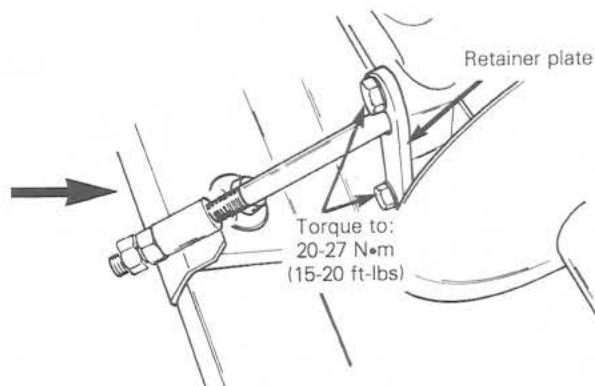
▼ CAUTION: Before installation ensure that the crankcase holes are threaded. If there are no threads, the modification can not be performed.

→ ○ NOTE: It is suggested to use the same installation procedure for the 1982 Blizzard 9500 & Ultra Sonic.

- Install the 90° brace end to the retainer plate and the other end to the hook. Secure it using the two (2) nuts.



- 1) After pulley alignment, torque nut "B" to 4-5 N•m (3-4 ft-lbs).
- 2) Holding nut "B" torque nut "A" to 20-27 N•m (15-20 ft-lbs).
- 3) Reverify pulley alignment.



Since this is a product improvement no warranty applies.



SNOWMOBILES

Service Bulletin

no. 82-3

Date: 1981 06 23

Serial nos: 3570, 3571, 3573, 3574
3577, 3579, 5313, 5314
5316, 5317

*Revised
4/28/82*

**MODELS: 1980 BLIZZARD 7500
BLIZZARD 7500 (EUR)
BLIZZARD 9500
BLIZZARD 9500 (EUR)
SUPER SONIC
ULTRA SONIC**
**1981 BLIZZARD 7500
BLIZZARD 9500
SUPER SONIC
ULTRA SONIC**

Subject: Engine retaining bracket ass'y

The 1982 Blizzard 9500 & Ultra Sonic will be equipped with an engine retaining bracket ass'y. This feature will add extra life to the drive belt by preventing the engine from twisting upon acceleration.

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| — 2 Lockwashers | P/N 224 781 140 |
| — 1 Hook weldment | P/N 512 035 300 |
| — 1 Brace | P/N 512 035 400 |
| — 2 Nuts | P/N 396 302 400 |

INSTALLATION:

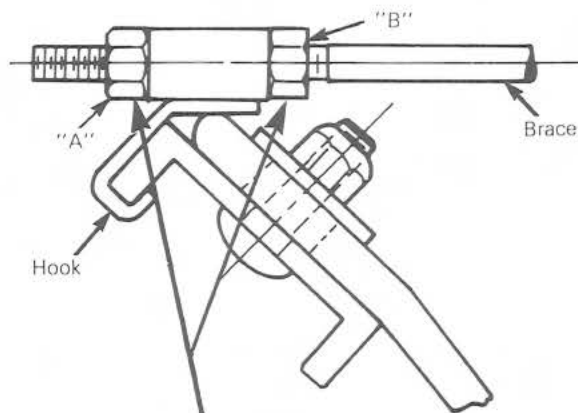
- Install the hook weldment to the engine support.
- Install the retainer plate to the engine crankcase electric starter location. Secure it using the two (2) screws and lockwashers. Torque to 20-27 N•m (15-20 ft-lbs).

NOTE: Ensure the retainer plate brace hole is located to its highest position.

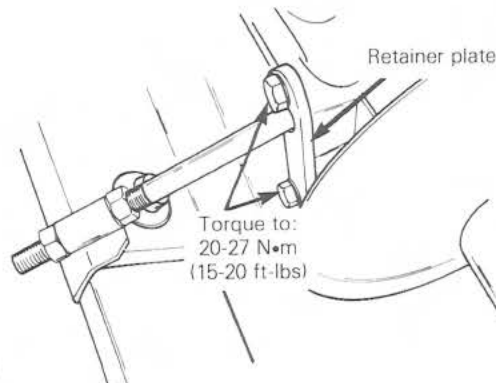
CAUTION: Ensure that the crankcase halves are grooved the same as an electric engine type.

CAUTION: Before installation ensure that the crankcase holes are threaded. If there are no threads, the modification can not be performed.

- Install the 90° brace end to the retainer plate and the other end to the hook. Secure it using the two (2) nuts.



- 1) After pulley alignment, torque nut "A" to 4-5 N•m (3-4 ft-lbs).
- 2) Torque nut "B" to 20-27 N•m (15-20 ft-lbs).
- 3) Reverify pulley alignment.



Since this is a product improvement no warranty applies.

**SNOWMOBILES**

Service Bulletin

**no. 82-4
(REVISION 1)**

Date: 1982 06 23

Serial nos: Not applicable

**MODELS: 1982 CITATION 3500, 4500/E, SS
MIRAGE I, II/E, SPECIAL
NORDIK, SKANDIC, FUTURA 300
BLIZZARD 9500, ULTRA SONIC
EVEREST L/C, FUTURA L/C**

**Subjects: A) 1982 Engine & vehicle technical data
posters and binder sizes corrections**
**B) 1982 Operator's manual specification
section correction**

For the above mentioned models, some specifications
MUST be corrected in their respective publications, pro-
ceed as follows:

A) 1. 1982 ENGINE TECHNICAL DATA POSTER

- Ski-Doo (P/N 484 0458 00)
- Moto-Ski (P/N 484 0460 00)

Timing (B.T.D.C.)

Citation 3500 & Mirage I:
2.52 mm (0.099") indirect should read:
2.85 mm (0.112") indirect

Citation 4500/E, Citation SS,
Mirage II/E, Mirage Special,
Nordik, Skandic, Futura 300:

2.52 mm (0.099") direct should read:
2.31 mm (0.090") direct

Magneto generator output (watt)

Blizzard 9500, Ultra Sonic,
Everest L/C, Futura L/C:

160 watts should read:
140 watts

Crankshaft end-play

Citation 3500 & Mirage I:
N.A. should read:
0.20 mm — 0.40 mm (0.008" — 0.016")

2. 1982 VEHICLE TECHNICAL DATA POSTER & BINDER SIZES

- Ski-Doo (P/N 484 0457 00)
- Moto-Ski (P/N 484 0459 00)

Pressure lever identification (drive pulley)

Citation 4500 & Mirage II (manual models):
A3SH should read:
B3KSH

Spring length (drive pulley)

Citation SS, Mirage Special:
110.4 mm (4.346") should read:
100 mm (3.938")

Nordik, Skandic, Futura 300:
96.5 mm (3.799") should read:
100 mm (3.938")

B) 1982 OPERATOR'S MANUAL

All Citation: (P/N 414 4467 00)

All Mirage: (P/N 414 4468 00)

Nordik, Skandic: (P/N 414 4727 00)

Futura 300: (P/N 414 4810 00)

Timing specification **must** be changed to the following:

Citation 3500 Mirage I	2.85 mm B.T.D.C. (0.112") 20°
Citation 4500/E Mirage II/E Citation SS Mirage Special Nordik, Skandic Futura 300	2.31 mm B.T.D.C. (0.090") 20°



SNOWMOBILES

Service Bulletin

no. 82-4

Date: 1981 11 02

Serial nos: Not applicable

*Revised
6/23/82*

**MODELS: 1982 CITATION 3500, 4500/E, SS
MIRAGE I, II/E, SPECIAL
NORDIK, SKANDIC, FUTURA 300
BLIZZARD 9500, ULTRA SONIC
EVEREST L/C, FUTURA L/C**

**Subjects: A) 1982 Engine & vehicle technical data
posters and binder sizes corrections
B) 1982 Operator's manual specification
section correction**

For the above mentioned models, some specifications
MUST be corrected in their respective publications, pro-
ceed as follows:

A) 1. 1982 ENGINE TECHNICAL DATA POSTER & BINDER SIZES

- Ski-Doo (P/N 484 0458 00)
- Moto-Ski (P/N 484 0460 00)

Timing (B.T.D.C.)

Citation 3500 & Mirage I:
2.52 mm (0.099") indirect should read:
2.85 mm (0.112") indirect

Citation 4500/E, Citation SS,
Mirage II/E, Mirage Special,
Nordik, Skandic, Futura 300:
2.52 mm (0.099") direct should read:
2.31 mm (0.090") direct

Magneto generator output (watt)

Blizzard 9500, Ultra Sonic,
Everest L/C, Futura L/C:
160 watts should read:
140 watts

Crankshaft end-play

Citation 3500 & Mirage I:
N.A. should read:
0.20 mm — 0.40 mm (0.008" — 0.016")

2. 1982 VEHICLE TECHNICAL DATA POSTER & BINDER SIZES

- Ski-Doo (P/N 484 0457 00)
- Moto-Ski (P/N 484 0459 00)

Pressure lever identification (drive pulley)

Citation 4500 & Mirage II (manual models):
A3SH should read:
BEKSH

Spring length (drive pulley)

Citation SS, Mirage Special:
110.4 mm (4.346") should read:
100 mm (3.938")

Nordik, Skandic, Futura 300:
96.5 mm (3.799") should read:
100 mm (3.938")

B) 1982 OPERATOR'S MANUAL

All Citation: (P/N 414 4467 00)
All Mirage: (P/N 414 4468 00)
Nordik, Skandic: (P/N 414 4727 00)
Futura 300: (P/N 414 4810 00)

Timing specification **must** be changed to the following:

Citation 3500 Mirage I	2.85 mm B.T.D.C. (0.112'') 20°
Citation 4500/E Mirage II/E Citation SS Mirage Special Nordik, Skandic Futura 300	2.31 mm B.T.D.C. (0.090'') 20°



Service Bulletin

no. 82-5

Date: 1981 10 05

MODEL: 1982 SKANDIC

Serial no: 3179

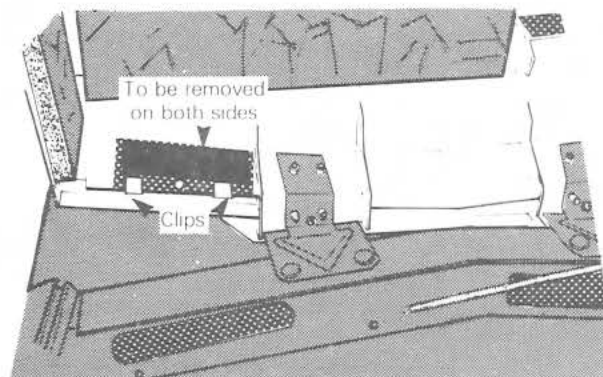
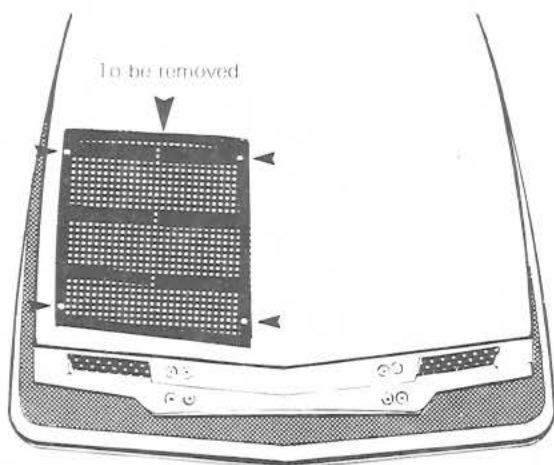
Subject: Removal of Skandic hood grills

The 1982 Skandic has been equipped with snow deflector grills on the hood to prevent snow from entering the engine compartment. However, under certain warmer temperatures, springtime as an example, these grills may be removed. This will enable the engine to run cooler.

REMOVAL PROCEDURE

Using a small Philips screwdriver, remove the four screws holding the upper grill (P/N 517 1477 00) in position.

Remove the grill.



Remove the four clips holding the two lower grills (P/N 517 1478 00) in position.

Remove the grills.

NOTE: If you are in an area of continual deep fluffy snow conditions, we suggest the grills not be removed.

Since this is a product improvement, no warranty applies.



SNOWMOBILES

Service Bulletin

no. 82-6

Year month day
Date: 1981 10 13

MODEL: 1982 ELITE

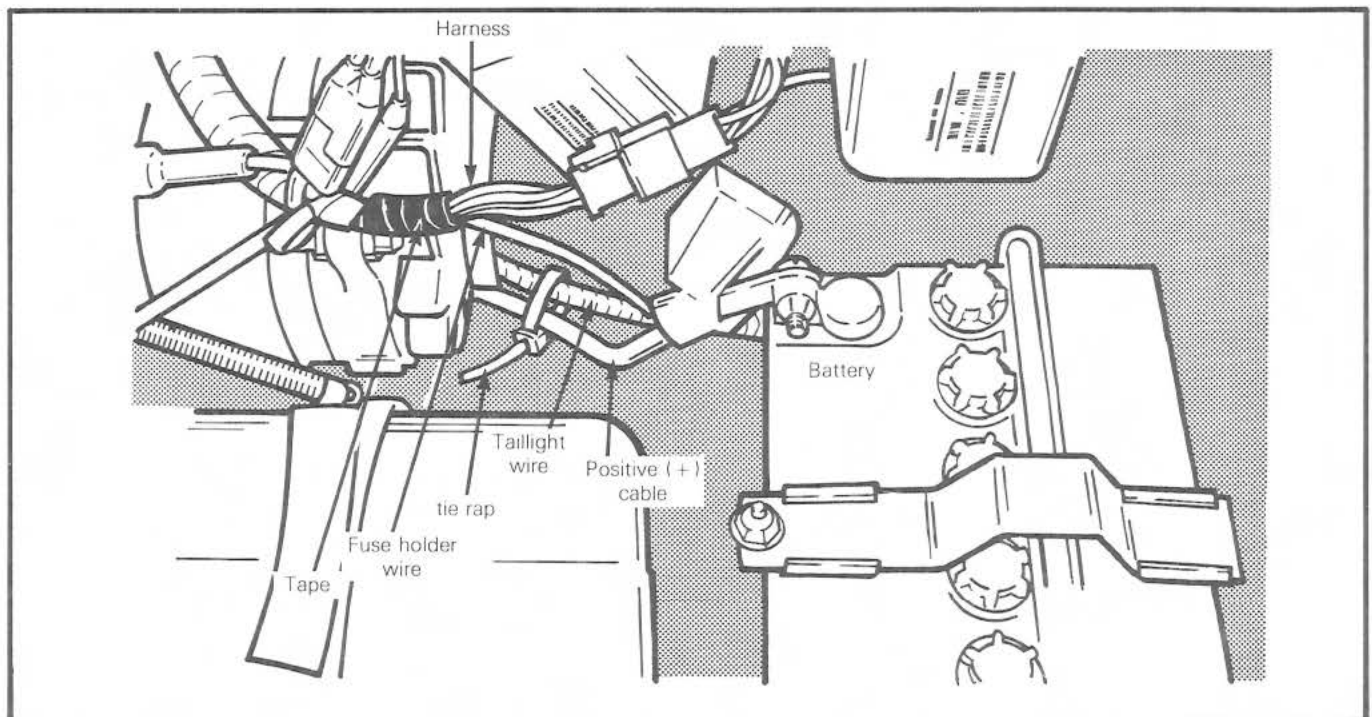
Serial nos: All

Subject: Battery installation

IMPORTANT NOTICE

After charging the battery and reinstalling it on the vehicle, particularly during pre-delivery operations, it is important that the positive (+) cable, the fuse holder wire and the taillight wiring be isolated from the alternator pulley and belt. Wiring and/or cable contact with these rotating parts could cause an electrical short.

To isolate the wires and cable, ensure that the battery positive (+) cable is directed down toward the frame. Particular attention should be made when tightening the cable to the battery post. The fuse holder wire should be taped to the harness. The taillight wiring must be secured to the positive (+) cable using a tie rap. Refer to the following illustration.





SNOWMOBILES

Service Bulletin

no. 82-7

Date: 1981 11 10

Serial nos: 3177, 3178, 3179

MODELS: 1982 NORDIK
NORDIK (EUROPE)
SKANDIC

Subject: Hitch bracket reinforcement tip

Under heavy load pulling conditions over rough terrain, there is a possibility that the trailer hitch bend. It is suggested that on machines used in these conditions two bolts be installed to lock the hitch securely to the bumper.

PARTS REQUIRED:

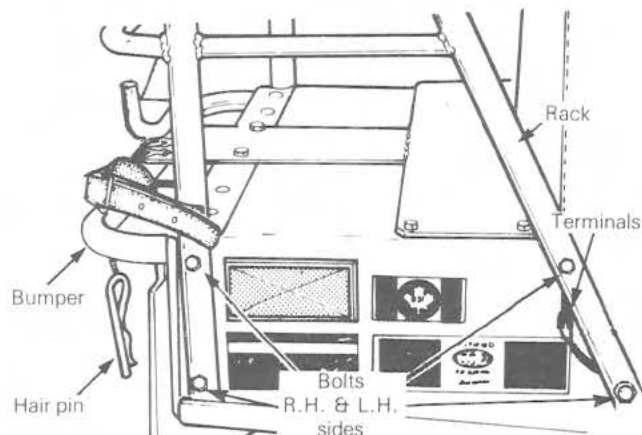
- 2 Screws P/N 222 064 565
- 2 Washers P/N 224 061 201
- 2 Nuts P/N 228 761 045

PROCEDURE:

- Remove hair pin from the hitch.
- (Skandic models) as illustrated,
Remove the eight (8) nuts and screws securing the rack to the frame.
- Unplug the tail lamp wiring terminals.
- Remove the rack.
- To install, reverse removal procedure.

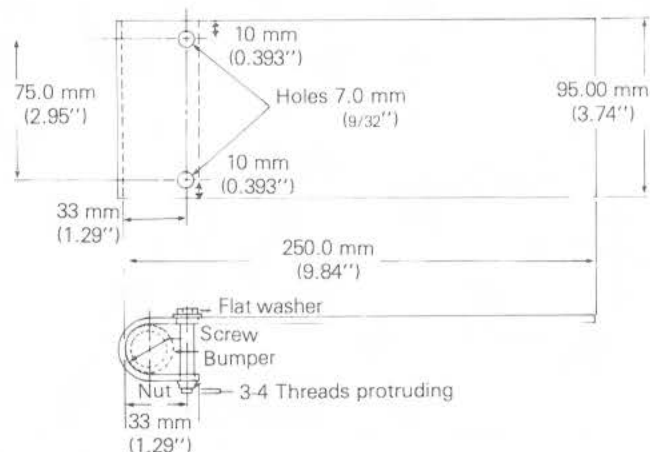
CAUTION: To prevent paint and/or decal damage, care must be taken at removal/installation of the rack.

(Skandic models)



Following the measurements as per illustration:

- Center punch the hitch plate.
- Make the holes using a 7.0 mm (9/32") drill.
- Install the screws, washers and nuts then tighten leaving 3-4 threads protrude through the nuts.



CAUTION: To prevent damage to bumper grip, attention must be taken while drilling the bottom part of the hitch plate.

This is a suggestion for product improvement.
No warranty applies.



SNOWMOBILES

Service Bulletin

no. 82-8

Date: 1981 11 13

Serial nos: 3587 - All
5322 - All

MODELS: 1982 - BLIZZARD 9500
1982 - ULTRA SONIC

Subject: Carburetors adjustment

To adjust the carburetors when performing pre-delivery operation or vehicle servicing, proceed as follows.

▼ CAUTION: Check oil injection pump adjustment each time carburetor is adjusted.

	BLIZZARD 9500 ULTRA SONIC
Air screw	1.5 turn
Main jet	P.T.O.: 310 MAG.: 330
Idle speed R.P.M.	1800-2000

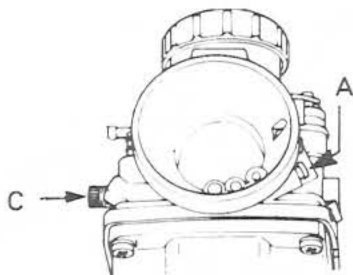
▼ CAUTION: Never operate the snowmobile with the air intake silencer disconnected. Serious engine damage will occur if this notice is disregarded.

The carburetor adjustment are:

- A) Air screw
- B) Throttle slide adjustment
- C) Idle speed

A) Air screw adjustment

Completely close the air screw (until a slight reseating resistance is felt) then back off screw as specified.



B) Throttle slide adjustment

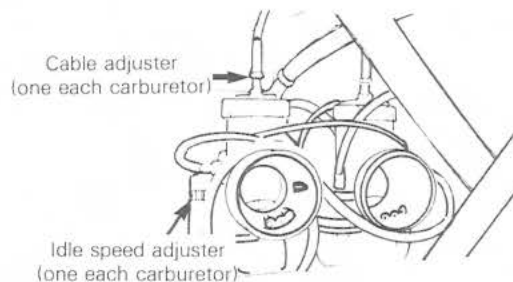
▼ WARNING: Ensure the engine is turned **OFF**, prior to the throttle slide adjustment.

For maximum performance, correct carburetor throttle slide adjustment is critical.

The following method should be used:

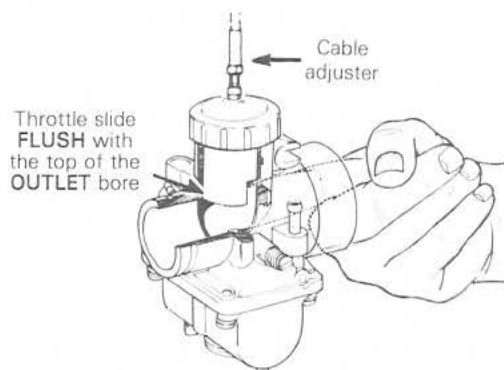
With engine turned off:

- Remove the air intake silencer.
- Back off the idle speed screws completely.



Turn the idle speed screw clockwise until it contacts the throttle slide then continue turning two (2) additional turns. Repeat on the other carburetor. This will ensure identical throttle slide idle setting.

With the throttle cable adjuster jam nuts unlocked, fully DEPRESS the throttle lever and check to have the throttle **FLUSH** with the top of the carburetor **OUTLET** bore. To adjust, turn the carburetor cable adjuster, clockwise or counter-clockwise.



Repeat for the other carburetor.

▼ **CAUTION:** Make sure both carburetors start to operate simultaneously.

◆ **WARNING:** It is important that the throttle slide adjustment be performed to ensure proper functioning of throttle mechanism.

Once both carburetors are adjusted, check that with the throttle lever fully depressed, there is a free play of 1.5 mm (1/16") between the cover and throttle slide. Readjust accordingly.



◆ **WARNING:** This gap is very important. If the throttle slide rests against the carburetor cover at full throttle opening, it will create too much strain and may damage the throttle cable.

Recheck carburetor synchronization.

C) Idle speed adjustment

Start engine and allow it to warm up then adjust idle speed to 1800-2000 R.P.M. by turning idle speed screws equally clockwise or counter-clockwise.

▼ **CAUTION:** Do not attempt to set the idle speed by using the air screw. Severe engine damage can occur.

**SNOWMOBILES**

Service Bulletin

no. 82-9

Date: 1982 01 22

MODELS: ALL 1982 SNOWMOBILES

Serial nos: All

**Subject: Information on high altitude
and/or deep snow calibrations**

This bulletin is published as a guide to help you calibrate the snowmobiles which are operating in high altitude areas. It summarizes the instruction sheet charts used in the 1982's high altitude kits. Adjustment varies with temperature, altitude and snow conditions.

○ **NOTE:** Even at sea level, under certain deep snow conditions, some of these modifications in the drive pulley, driven pulley and gear ratio could be performed to obtain better performance.

MODIFICATIONS & ADJUSTMENTS CHART (HIGH ALTITUDE KIT)

MODEL 1982	DRIVE PULLEY		DRIVEN PULLEY	GEARING			CARBURATION					
	RELEASE SPRING	CENTRIFUGAL LEVER KIT	TENSION ADJUSTMENT (lbs)	TOP SPROCKET (teeth)	LOWER SPROCKET (teeth)	CHAIN (links)	NEEDLE CIRCLIP POSITION FROM TOP	AIR SCREW (turn)	PILOT JET NO.	MAIN JET NO. (QTY)		
										1800 m (6000 ft)	2400 m (8000 ft)	3000 m (10000 ft)
Elan Spirit Kit P/N 861 7106 00	Blue 414 2581 00		10				3°	1.5		150 404 1209 00	150	150
Citation 3500 Mirage I Kit P/N 861 7133 00	Yellow 414 4423 00		12	14 504 0127 00	35 504 0129 00		2°	2.0	35 404 1027 00	190 404 1190 00	180 404 1122 00	170 404 1238 00
Citation 4500 Mirage II Kit P/N 861 7134 00				14 504 0127 00	35 504 0129 00		2°	1.5		240 404 1002 00	230 404 1189 00	220 404 1112 00
Citation 4500 E Mirage II E Kit P/N 861 7134 00			12	14 504 0127 00	35 504 0129 00							
Nordik Skandic Kit P/N 861 7136 00												
Citation SS Mirage Special Kit P/N 861 7135 00		Remove 4 washers Install new nuts (4) 228 5810 45	12				2°	1.5		130 (2) 404 1249 00 (2)	125 (2) 404 1248 00 (2)	120 (2) 404 1139 00 (2)
Everest 500/E Futura 500/E Kit P/N 861 7137 00	Yellow 414 1995 00		14-15	18 504 0437 00			2°	1.0	30 404 1077 00	270 404 1004 00	260 404 1006 00	250 404 1003 00
Everest L/C Futura L/C Kit P/N 861 7140 00	Orange 414 4065 00		14-15		38 504 0289 00	66 412 1042 00	3°	1.5		300 404 1012 00	270 404 1004 00	250 404 1003 00
Blizzard 5500 MX Sonic Kit P/N 861 7138 00		2 kits 860 4132 00	14-15	18 504 0437 00			3°	2.0		200 (2) 404 1123 00 (2)	195 (2) 404 1194 00 (2)	190 (2) 404 1190 (2)
Blizzard 9500 Ultra Sonic Kit P/N 861 7139 00	Black 414 4784 00	3 kits 860 4173 00	14-15	19 504 0438 00			3°	1.5	40 (2) 404 1091 00 (2)	240 PTO	220 PTO	200 PTO 404 1123 00
										260 MAG 404 1006 00	240 MAG 404 1002 00	220 MAG 404 1112 00
Alpine Kit P/N 861 7109 00	Light blue 414 1967 00		15				2°	1.5	25 404 1103 00	240 404 1002 00	220 404 1112 00	210 404 1191 00
ABOVE 1800 METERS (6000 feet)											2400 m (8000 ft)	3000 m (10000 ft)

CARBURETOR SETTING CHART

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

1982 ELAN—SPIRIT VM 28-242

TEMPERATURE (0°C) (0°F)		MAIN JET								Needle E clip position from top	Pilot jet	Air screw
		-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
Altitude Meters (feet)	0 Sea level	160	160	160	160	160	160	160	160	3°	30	1 1/2 turn
	600 m (2,000)	160	160	160	160	160	160	160	160			
	1,200 m (4,000)	160	160	160	160	160	160	160	160			
	1,800 m (6,000)	150	150	150	150	150	150	150	150			
	2,400 m (8,000)	150	150	150	150	150	150	150	150			
	3,000 m (10,000)	150	150	150	150	150	150	150	150			

1982 CITATION 3500—MIRAGE I VM 34-255

TEMPERATURE (0°C) (0°F) Altitude Meters (feet)	MAIN JET								Needle E clip position from top	Pilot jet	Air screw
	-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
0 Sea level	240	240	230	220	210	200	195	185	3°	30	1 1/2 turn
600 m (2,000)	230	230	220	210	200	190	185	175			
1,200 m (4,000)	220	210	210	200	190	180	170	165			
1,800 m (6,000)	210	200	195	190	185	180	175	170	2°	35	2 turns
2,400 m (8,000)	195	190	185	180	175	170	165	160			
3,000 m (10,000)	185	180	175	170	165	160	155	150			

1982 CITATION 4500/E—MIRAGE II/E
NORDIK, SKANDIC VM 34-276

TEMPERATURE (0°C) (0°F)		MAIN JET								Needle E clip position from top	Pilot jet	Air screw
		-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
Altitude Meters (feet)	0 Sea level	290	280	270	260	250	240	230	220	3°	35	1 1/2 turn
	600 m (2,000)	290	280	270	260	250	240	230	220			
	1,200 m (4,000)	280	270	260	250	240	230	220	210			
	1,800 m (6,000)	270	260	250	240	230	220	210	200	2°		
	2,400 m (8,000)	260	250	240	230	220	210	200	190			
	3,000 m (10,000)	250	240	230	220	210	200	190	180			

1982 CITATION SS—MIRAGE SPECIAL 2X VM 34-277

TEMPERATURE (0°C) (0°F)		MAIN JET								Needle E clip position from top	Pilot jet	Air screw
		-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
Altitude Meters (feet)	0 Sea level	175	170	165	160	155	150	145	140	3°	40	1 1/2 turn
	600 m (2,000)	165	160	155	150	145	140	135	130			
	1,200 m (4,000)	155	150	145	140	135	130	125	120			
	1,800 m (6,000)	145	140	135	130	125	120	115	110	2°		
	2,400 m (8,000)	140	135	130	125	120	115	110	105			
	3,000 m (10,000)	135	130	125	120	115	110	105	100			

1982 EVEREST 500/E—FUTURA 500/E VM 36-114

TEMPERATURE (0°C) (0°F) Altitude Meters (feet)	MAIN JET								Needle E clip position from top	Pilot jet	Air screw
	-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
0 Sea level	330	320	310	300	290	280	270	260	3°	35	1 1/2 turn
600 m (2,000)	320	310	300	290	280	270	260	250			
1,200 m (4,000)	310	300	290	280	270	260	250	240			
1,800 m (6,000)	300	290	280	270	260	250	240	230	2°	30	1 turn
2,400 m (8,000)	290	280	270	260	250	240	230	220			
3,000 m (10,000)	280	270	260	250	240	230	220	210			

1982 EVEREST L.C.—FUTURA L.C. VM-227

TEMPERATURE (0°C) (0°F) Altitude Meters (feet)	MAIN JET								Needle E clip position from top	Pilot jet	Air screw
	-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
0 Sea level	420	410	390	380	370	350	340	320	3°	40	1 1/2 turn
600 m (2,000)	400	390	370	360	350	330	320	300			
1,200 m (4,000)	370	360	340	330	310	300	290	270			
1,800 m (6,000)	340	330	310	300	280	270	260	240			
2,400 m (8,000)	310	300	280	270	260	240	230	220			
3,000 m (10,000)	290	280	260	250	230	210	200	190			

1982 BLIZZARD 5500 MX—SONIC 2X VM 34-203

TEMPERATURE (0°C) (0°F)		MAIN JET								Needle E clip position from top	Pilot jet	Air screw
		-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
Altitude Meters (feet)												
0 Sea level		240	240	230	220	210	200	195	185	3°	35	1 1/2 turn
600 m (2,000)		240	240	230	220	210	200	195	185			
1,200 m (4,000)		240	230	220	210	200	195	190	185			
1,800 m (6,000)		230	220	210	200	195	190	185	180			2 turns
2,400 m (8,000)		220	210	200	195	190	185	180	175			
3,000 m (10,000)		210	200	195	190	185	180	175	170			

1982 BLIZZARD 9500—ULTRA SONIC VM 36-118 PTO VM 36-119 MAG

TEMPERATURE (0°C) (0°F)		MAIN JET								Needle E clip position from top	Pilot jet	Air screw
		-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)			
Altitude Meters (feet)		PTO MAG	PTO MAG	PTO MAG	PTO MAG	PTO MAG	PTO MAG	PTO MAG	PTO MAG			
0 Sea level		340 360	330 350	320 340	310 330	300 320	290 310	280 300	270 290	3°	45	1 1/2 turn
600 m (2,000)		320 340	310 330	300 320	290 310	270 290	260 280	250 270	240 260			
1,200 m (4,000)		300 320	290 310	280 300	270 290	260 280	240 260	230 250	220 240			
1,800 m (6,000)		270 290	260 280	250 270	240 260	230 250	220 240	210 230	200 220		40	
2,400 m (8,000)		240 260	230 250	220 240	220 240	210 230	200 220	190 210	180 200			
3,000 m (10,000)		230 250	220 240	210 230	200 220	180 210	180 200	170 190	160 180			

1982 ALPINE VM 34-215

		MAIN JET										
Altitude Meters (feet)	TEMPERATURE (0°C) (0°F)	-50°C (-60)	-40°C (-40)	-30°C (-20)	-20°C (0)	-5°C (20)	5°C (40)	15°C (60)	25°C (80)	Needle E clip position from top	Pilot jet	Air screw
0 Sea level		310	300	290	280	270	260	250	240	3°	30	1 1/2 turn
600 m (2,000)		300	290	280	270	260	250	240	230			
1,200 m (4,000)		290	270	260	250	240	230	220	210			
1,800 m (6,000)		270	260	250	240	230	220	210	195	2°	25	
2,400 m (8,000)		250	240	230	220	210	200	190	180			
3,000 m (10,000)		240	230	220	210	195	185	175	165			



SNOWMOBILES

Service Bulletin

no. 82-10

Year month day
Date: 1982 02 12

MODELS: ALL

Serial nos: All

**Subject: Vehicle storage procedure
(Engine and primer valve)**

This Service Bulletin supersedes Service Bulletin (81-24) and also the storage procedure (cylinder lubrication) with the recommended storage oil (P/N 413 9048 00) as described in the 1982 Operator's Manual. The other procedures concerning cooling system, track, slide suspension, ski, controls, chaincase, fuel tank, carburetor, drive pulley, chassis and battery remain the same.

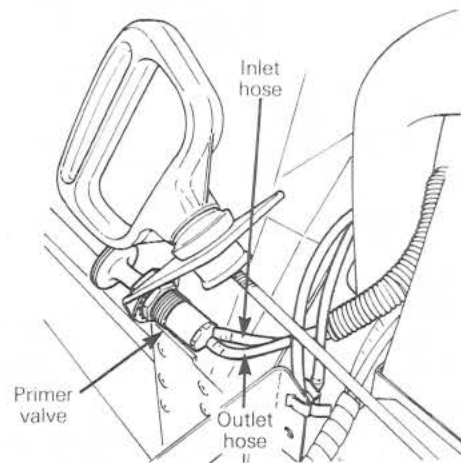
To perform the storage procedures (engine and primer valve) proceed as follows:

Engine

1. Start the engine and allow it to run at idle speed until the engine reaches its operational temperature.
2. Stop the engine, remove the air silencer box, start the engine.
3. Using the concentrated Bombardier Snowmobile Oil, squirt oil into the carburetor(s) throat until the engine dies.
4. Remove the spark plug(s) and pour approximately 85 mL (3 fl. oz. imp., 3 fl. oz. U.S.) of oil into the cylinder(s).
5. Crank the engine to allow the crankshaft to turn 2 to 3 revolutions.
6. Reinstall the spark plug(s) and the air intake silencer.

Primer valve

1. Disconnect the inlet primer hose from the primer valve.



2. Hold the hose higher than the gas tank to prevent gasoline draining.
3. Using an appropriate hose, connect one end of the hose to the inlet of the primer valve and place the other end in a concentrated Bombardier Snowmobile Oil can.
4. Activate the primer in order to fill it with oil.
5. Reinstall the inlet primer hose to the primer valve.

We highly recommend that you advise your customers of this revised storage procedure.

We suggest to post this Service bulletin to the view of your customers or to publish it to them.

**SNOWMOBILES**

Service Bulletin

no. 82-11

Date: April 19, 1982**MODELS:** 1981 EVEREST & ELITE**Serial nos:** ALL**Subject:** 1981 Red & Blue Pilot Lamps

The 1981 pilot lamps are no longer available:

P/N 410 6063 00 (blue)

P/N 110 6056 00 (red)

The 1982 pilot lamps will retrofit:

P/N 410 6066 00 (blue)

P/N 410 6065 00 (red)

NOTE: To install the 1982 pilot lamps on the 1981 Everest and Elite, a rubber grommet (P/N 570 2766 00) must be used as the lamps are smaller.

Therefore, if ordered	Will receive	Must order
1981 P/N 410 6063 00 (blue)	1-P/N 410 6066 00 (blue) 1-P/N 570 2766 00 (grommet)	
1981 P/N 110 6056 00 (red)	nothing	1-P/N 410 6065 00 (red) 1-P/N 570 2766 00 (grommet)

INSTALLATION

Install the rubber grommet(s) into the dash using a soap and water solution (applied to the retaining lips).

Install the pilot lamp(s).