

Please route to :

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



No. **2002-1**

REVISION 1 ←

Date: August 10, 2001

**SUBJECT: Units Shipped Without Skis
in the Crate**

YEAR	MODEL	PACKAGE	MODEL NUMBER	SERIAL NUMBER
2002	MX™ Z 700 R	Adrenaline	1899/1900/1903	All
2002	MX™ Z 700 R	Sport	2110/2111	All
2002	MX™ Z 700	Sport	1922/1923	All
2002	MX™ Z 600	Sport	1925/1927	All
2002	MX™ Z 500 R	Sport	2117/2118/2119	All

Because of a greater than predicted enthusiasm from the purchasers for the *Precision Skis*, such an enthusiasm that we've overloaded the supplier's production capacity, skis were not available for early production models.

Therefore, all of the above-mentioned units were shipped to dealers/distributors without skis in the crate.

Until the end of this month, missing skis will be auto-shipped to involved dealers/distributors 3 to 14 days following snowmobile reception; for units received September 1st and beyond, the delay will be 3 days.

Dealers/distributors don't need to order the skis.

Please advise all involved personnel.

Please route to :

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



No. **2002-2**

Date: September 21, 2001

SUBJECT: New Mandatory Tools

- 1) Circlip Installer**
- 2) MPEM/Accessories by-pass Harness**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER	REFERENCE
2001	Models equipped with a 793 engine	All	All	1
2002	Models equipped with a 593/693/793 engine	All	All	1
2002	Legend™ and Grand Touring™	All	All	2

The new mandatory tools mentioned in this service bulletin will be auto-shipped to all authorized Ski-Doo snowmobile dealers/distributors.

Auto-shipment has already been made for the circlip installer (P/N 529 035 686) while the by-pass harness (P/N 529 035 786) auto-shipment is scheduled for this coming October.

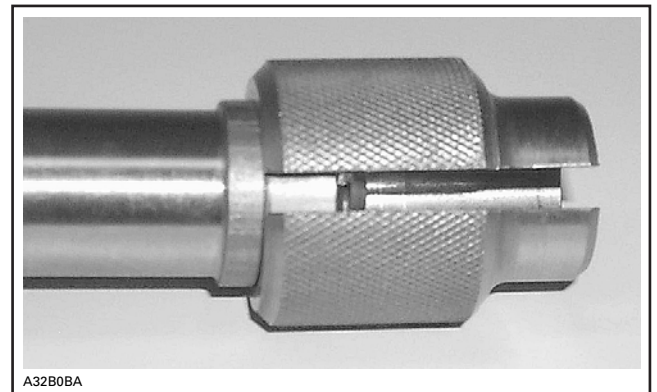
HOW TO USE THE TOOLS

1) CIRCLIP INSTALLER

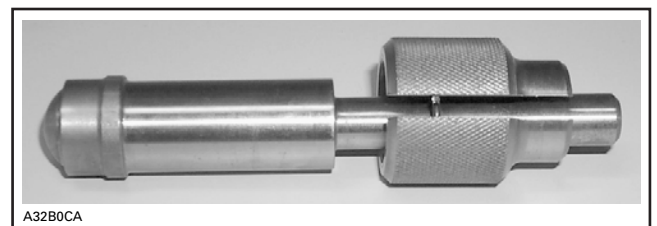
Insert circlip into support. Take care to install circlip so that tab will be toward top of piston.

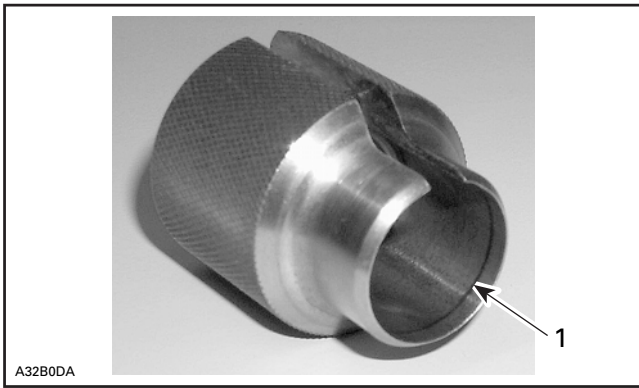


With round end of pusher, position circlip perpendicular to the support axis.



With the other end of the pusher, push circlip into the support groove.



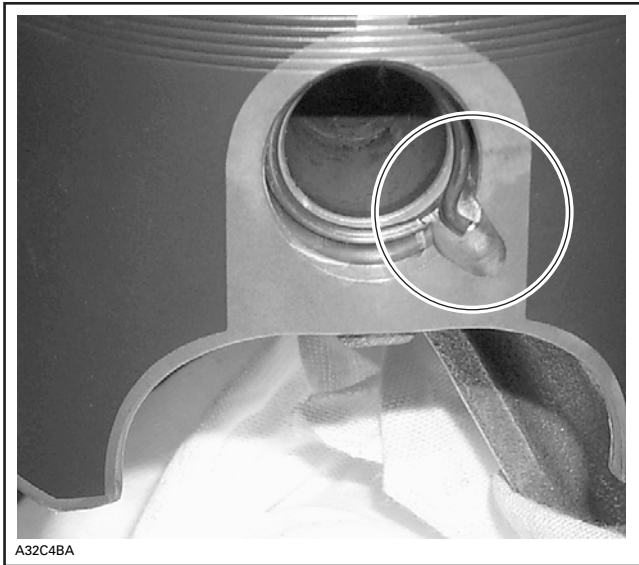


A32B0DA
1. Groove



A32B0EA
CIRCLIP READY TO BE INSTALLED ON PISTON

Using a plastic hammer, tap pusher to insert circlip in place. Take care to install new circlips with tab toward top as per following photo.

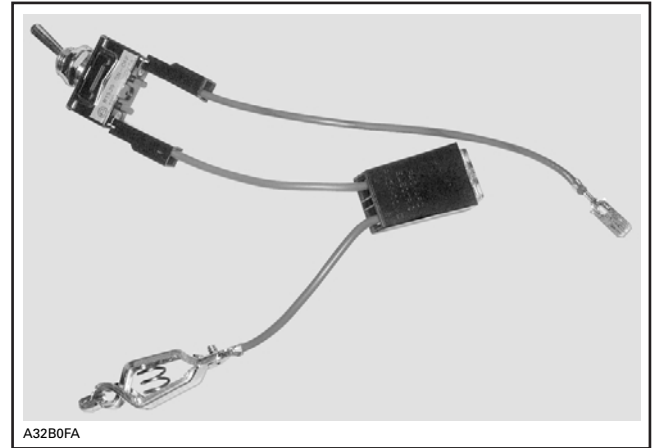


A32C4BA
TAB TOWARD TOP

CAUTION: Always install new mono-hook circlips. If circlip installation fails at the first attempt, always retry with a new one as on a second attempt circlip will lose its normal retaining capabilities.

CAUTION: Circlips must not move freely after installation; if so, replace them.

2) MPEM/ACCESSORIES BY-PASS HARNESS



A32B0FA
BYPASS WIRE

General

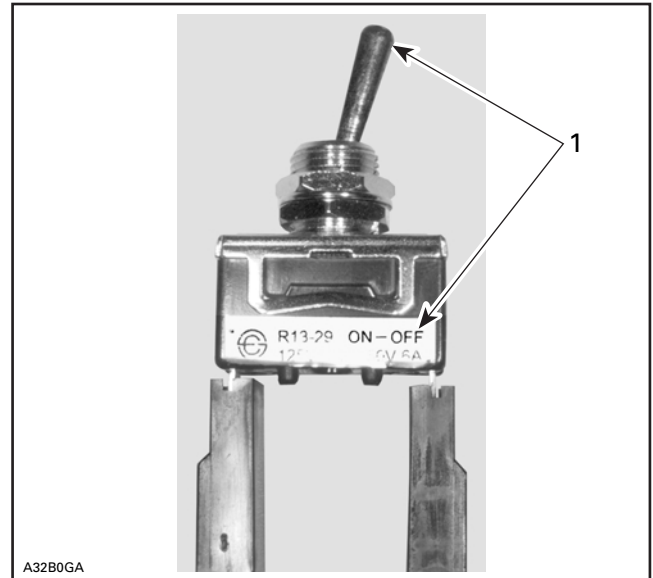
This bypass wire allows the 3 following operations without running the engine.

1. MPEM programming
2. Headlight system testing
3. Accessories testing

Instruction

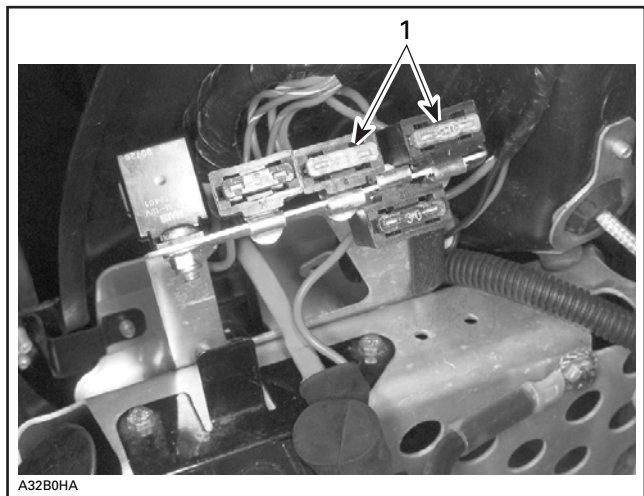
MPEM Programming

Ensure the switch on the bypass wire is in the OFF position. Refer to decal on switch.



A32B0GA
1. OFF

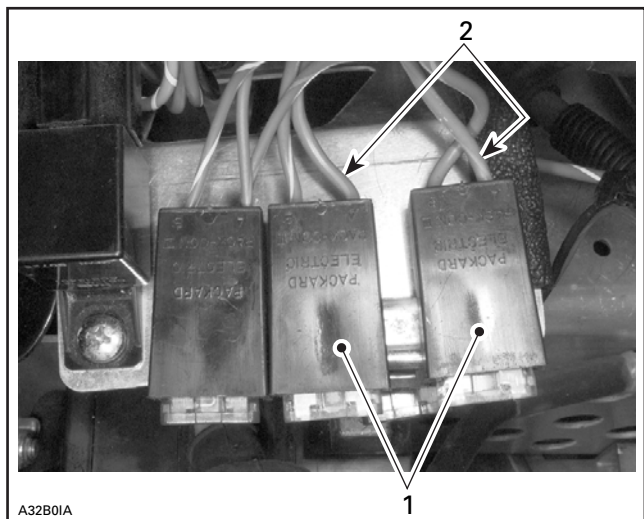
Remove both 20 A fuses.



1. 20 A fuses

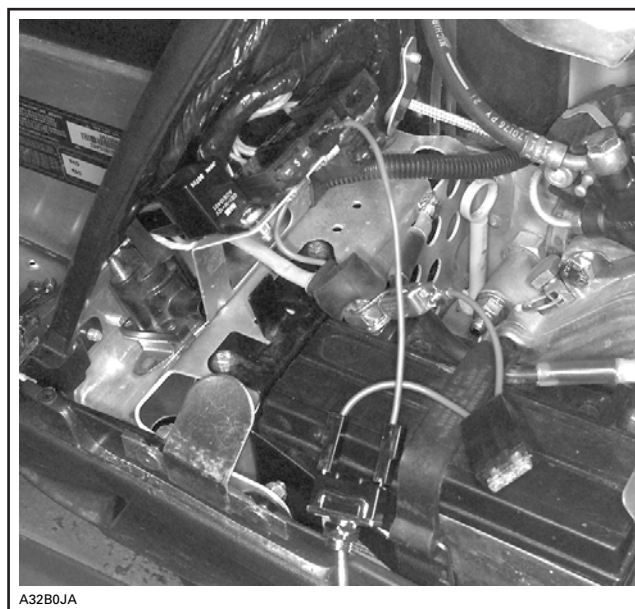
Connect the flat terminal of bypass wire in one of the 20 A fuse holders where a RED/BROWN wire comes in. Look at the back on one of 20 A fuse holders for a RED/BROWN wire.

NOTE: Both 20 A fuse holders have a RED/BROWN. Either one may be used.



TYPICAL — WIRES AND FUSE HOLDERS MAY BE INVERTED

- 1. 20 A fuse holders
- 2. RED/BROWN wires



TYPICAL — FLAT TERMINAL CONNECTED TO A RED/BROWN WIRE

Connect the bypass wire alligator clip to the positive post of vehicle battery.

Once bypass wire is properly in place, put the bypass switch to the ON position.

As switch gets turned on a beeping signal from the reverse buzzer will be heard. This indicates that the MPEM is now ready to transfer programming operations.

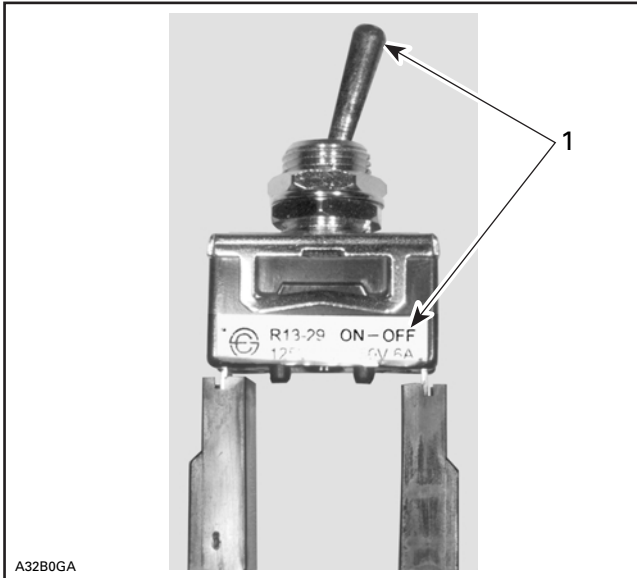
Proceed with programming as per *Shop Manual*.

If no beeping signal is heard when switch is turned on, check if either the headlight or the taillight is on. If this is the case, then the bypass wire was incorrectly installed. Turn switch off and re-verify that the flat terminal of bypass wire is connected to a RED/BROWN wire.

Once MPEM programming is done, turn switch off. Remove alligator clip from battery positive post. Remove flat terminal from fuse holder. Reinstall 20 A fuses.

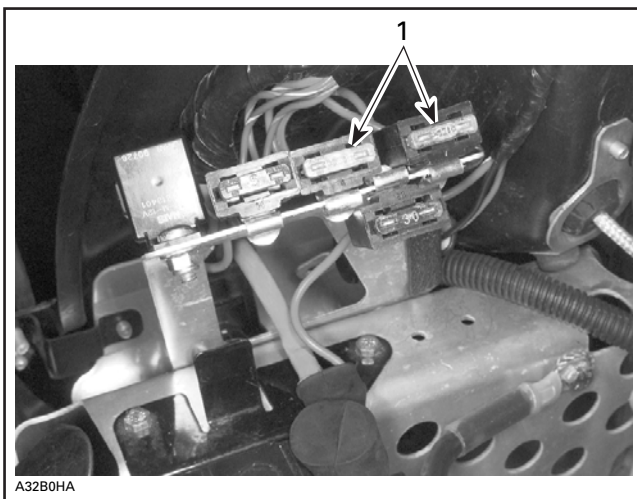
Headlight System Testing

Ensure the switch on the bypass wire is in the OFF position. Refer to decal on switch.



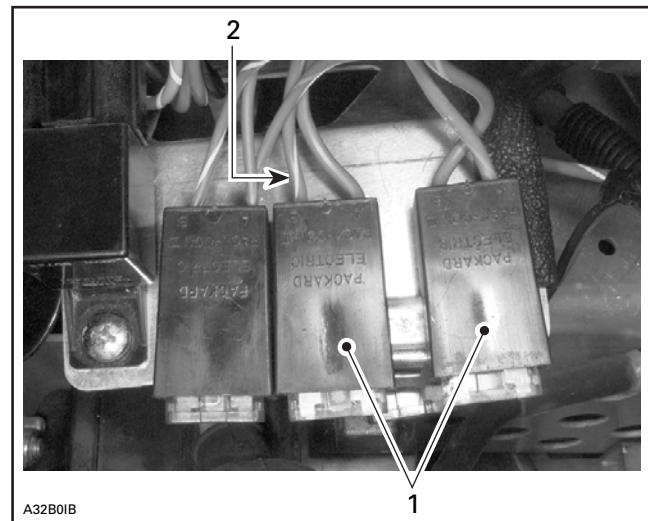
1. OFF

Remove both 20 A fuses.



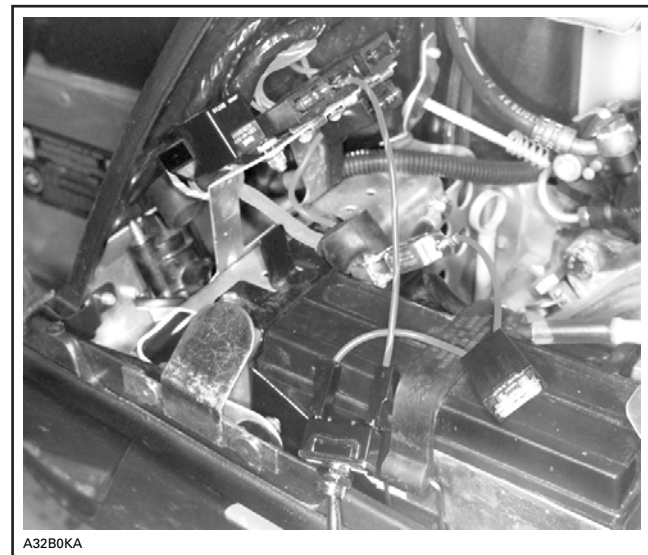
1. 20 A fuses

Connect the flat terminal of bypass wire in one of the 20 A fuse holders where the RED/ORANGE wire comes in. Look at the back on one of 20 A fuse holders for the RED/ORANGE wire.



TYPICAL — WIRES AND FUSE HOLDERS MAY BE INVERTED

1. 20 A fuse holders
2. RED/ORANGE wire



TYPICAL — FLAT TERMINAL CONNECTED TO THE RED/ORANGE WIRE

Connect the bypass wire alligator clip to the positive post of vehicle battery.

Once bypass wire is properly in place, put the bypass switch to the ON position.

Now the headlight system is supplied with 12 volts. Use appropriate wiring diagram found in *Shop Manual* to troubleshoot headlight system.

As switch gets turned on a beeping signal from the reverse buzzer **must not** be heard. Headlight system receives 12 volts and is ready to be tested.

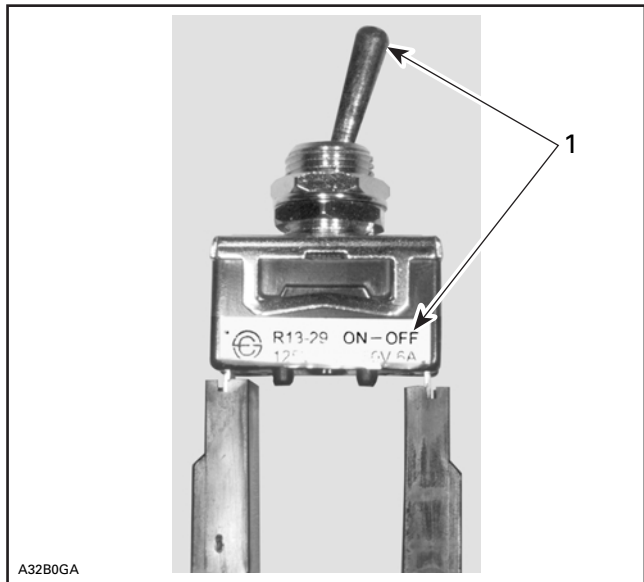
If a beeping signal is heard when switch is turned on, or the taillight is on, then the bypass harness was incorrectly installed. Turn switch off and re-verify that the flat terminal of bypass wire is connected to a RED/ORANGE wire.

Once headlight system testing is done, turn switch off. Remove alligator clip from battery positive post. Remove flat terminal from fuse holder. Reinstall 20 A fuses.

Accessories Testing

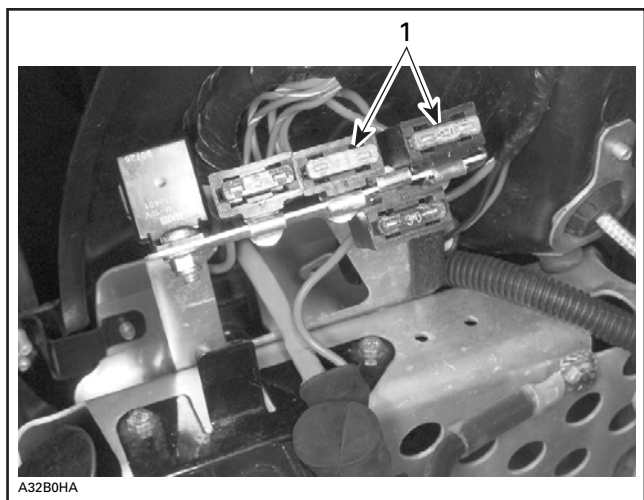
NOTE: Accessories include taillight, brake light, dash instruments, heated grips and throttle lever, BOSS shock electronics and air ride suspension when applicable.

Ensure the switch on the bypass wire is in the OFF position. Refer to decal on switch.



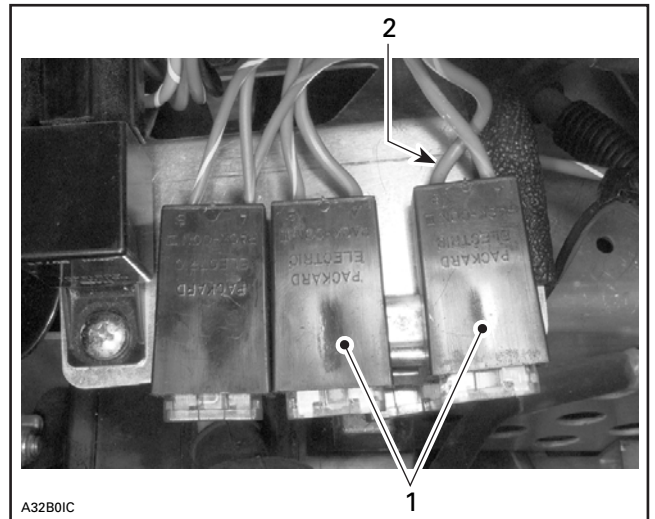
1. OFF

Remove both 20 A fuses.



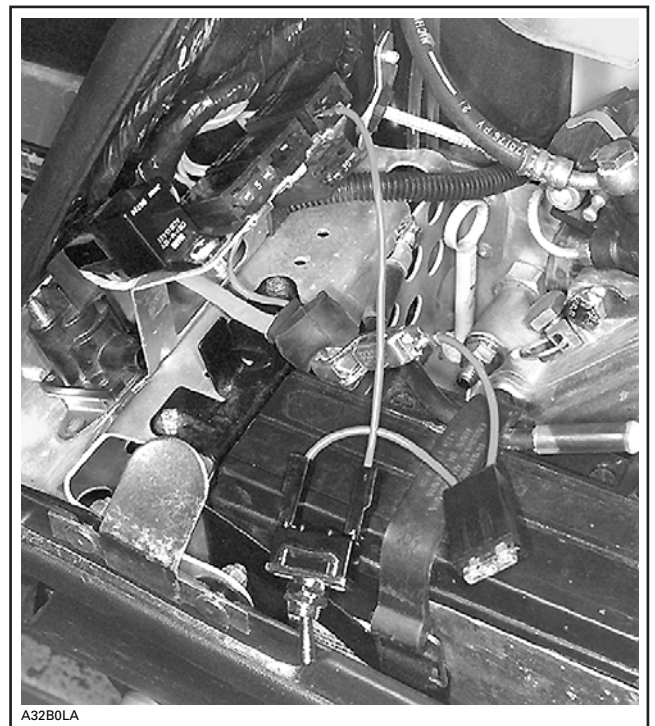
1. 20 A fuses

Connect the flat terminal of bypass wire in one of the 20 A fuse holders where the RED/YELLOW wire comes in. Look at the back on one of 20 A fuse holders for the RED/YELLOW wire.



TYPICAL — WIRES AND FUSE HOLDERS MAY BE INVERTED

1. 20 A fuse holders
2. RED/YELLOW wire



TYPICAL — FLAT TERMINAL CONNECTED TO THE RED/YELLOW WIRE

Connect the bypass wire alligator clip to the positive post of vehicle battery.

Once bypass wire is properly in place, put the bypass switch to the ON position.

Now accessories are supplied with 12 volts. Use appropriate wiring diagram found in *Shop Manual* to troubleshoot a faulty accessory.

As switch gets turned on a beeping signal from the reverse buzzer **must not** be heard. All accessories receive 12 volts and are ready to be tested.

If a beeping signal is heard when switch is turned on, or if the headlight is on, then the bypass harness was incorrectly installed. Turn switch off and re-verify that the flat terminal of bypass wire is connected to a RED/YELLOW wire.

Once accessory testing is done, turn switch off. Remove alligator clip from battery positive post. Remove flat terminal from fuse holder. Reinstall 20 A fuses.

Please notify all involved personnel.

Please route to :

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



No. **2002-3**

Date: September 14, 2001

**SUBJECT: A) Sea Level/High Altitude
2002 Summit LC Calibration
B) New Main Jets for some
2002 Models
C) New Spark Plug for 593/693/
793 Engine Types**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All liquid cooled Summit (subject A)	All	All
2002	Models equipped with 693/793 engine types (subject B)	All (according to model name)	All
2002	Models equipped with 593/693/793 engine types (subject C)	All (according to model name)	All

A) SEA LEVEL/HIGH ALTITUDE SUMMIT LC CALIBRATION

New 2002 Ski-Doo Summit snowmobiles are calibrated to operate between 600 m (2000 ft) and 2500 m (8000 ft). Next adjustments have to be done when snowmobiling under or over these altitudes.

Under 600 m (2000 ft)

Change required on drive pulley: hollow pins (P/N 417 222 477) must be replaced with solid pins (P/N 417 004 308).

CAUTION: Failure to do so may lead to major engine damage.

Over 2400 m (8000 ft)

Change required on drive pulley: The set screw must be removed from hollow pin.

Next tables are taken from *2002 High Altitude/Sea Level Specification Service Bulletin* and show only calibration items to be changed with specific altitude.

Summit 800 (X/Sport/Sport R/HM/HM X/HM R/HM X R)

DRIVE PULLEY

Altitude \ Clutching	Sea Level	600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
	Calibration screw position	3	1	4
Pin	417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100	3800	4000	4200	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (solid)	3

CARBURATION

Altitude \ Clutching	Sea Level	600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
	Idle throttle valve position	mm 1.7	1.8	2.2

Summit 800 (X Europe)

DRIVE PULLEY

Altitude		Sea Level	Altitude		
			600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching					
Spring		Violet/Yellow 415 015 300	←	Violet/Violet 414 817 900	←
Calibration Screw Position		3	4	4	5

DRIVEN PULLEY

Altitude		Sea Level	Altitude		
			600 m 2000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching					
Cam angle	° (degrees)	47° - 44° (anodized) 417 126 385	←	44° (anodized) 417 126 445	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket, 74 link chain, 13 wide.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 817 900	Spring (Violet/Violet)	1
417 126 445	Cam 44° (anodized)	1

CARBURATION

Altitude		Sea Level	Altitude		
			600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Calibration					
Idle throttle valve position	mm	1.7	1.8	2.2	←

Summit 700 (Sport/Sport R)

DRIVE PULLEY

Altitude		Sea Level	Altitude		
			600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching					
Calibration screw position		3	1	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	417 222 47 (Hollow) no set screw	←

Additional Information: At 1800 m (6000 ft), un-screw red RAVE screw to be flush with RAVE cap.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

CARBURATION

Altitude		Sea Level	Altitude		
			600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching					
Idle throttle valve position	mm	1.5	1.6	1.8	1.9

Summit 600 (Sport/Sport R)

DRIVE PULLEY

Altitude		Sea Level	Altitude		
			600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching					
Calibration screw position		3	1	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100		3800	4000	4200	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

CARBURATION

Altitude		Sea Level	Altitude		
			600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching					
Idle throttle valve position	mm	1.8	1.9	2.2	←

Summit 600 (R Europe)

DRIVE PULLEY

Altitude	Altitude			
	Sea Level	600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching				
Spring	Violet/Violet 414 817 900	←	Violet/Blue 415 034 900	←
Calibration Screw Position	3	4	3	5
Pin	417 004 308 (Solid)	←	417 004 309 (Hollow)	←
Engagement RPM ± 100	4100	←	4300	←

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
415 034 900	Spring (Violet/Blue)	1

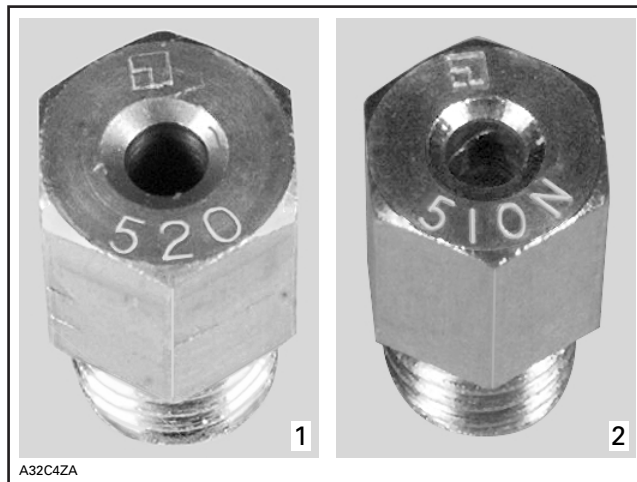
CARBURATION

Altitude	Altitude			
	Sea Level	600 m 2000 ft	2400 m 8000 ft	3000 m 10000 ft
Calibration				
Idle throttle valve position	mm	1.8	1.9	2.2
				←

IMPORTANT NOTICE: All liquid cooled Summit are factory equipped with 25 mm (1 in) set screw installed in threaded roller pins and TRA calibration screws are set at position 1. At predelivery preparation, the dealer must set calibration screws to obtain correct shift (operating) RPM for the customer's riding altitude. Refer to belt guard decal for more information.

B) NEW MAIN JETS FOR SOME 2002 MODELS

For 2002, some TM 40 carburetors are equipped with new main jets identified 510N, 520N and 530N (optional jet). These jets are different from 510, 520 and 530 main jets used previously on older model years. **NEVER** replace jets showing a N with a jet without N.



1. Old 520 main jet
2. New 510N main jet

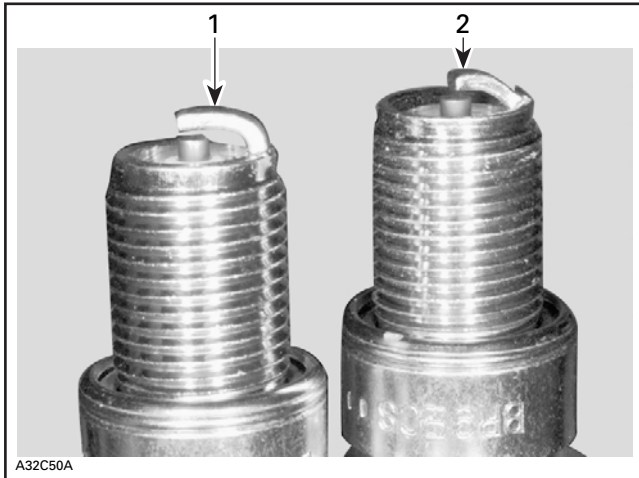
CAUTION: NEVER use both main jet showing a N with a main jet without N in the same time on the same engine.

Refer to the appropriate technical data to get the correct jetting and to find jet part numbers.

C) NEW SPARK PLUG FOR 593/693/793 ENGINE TYPES

A new spark plug is now used on 593/693/793 engine type.

The new NGK BR9ECS has a conical shape base, which can allow a short center electrode and a short ground electrode compared to the formerly used NGK BR9ES.



1. NGK BR9ES
2. NGK BR9ECS

The main benefits of this spark plug are:

- Reduction of pre-ignition and detonation by dissipating heat more efficiently via electrodes and conical shape base.
- Shorter ground electrode preventing vibration breakage.

IMPORTANT NOTICE: Do not try to adjust electrode gap. This spark plug is already gapped at factory. Because of the ground electrode shape, trying to adjust the gap through the usual feeler gauge method would not be very accurate.

Please route to :

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



No. **2002-4**

Date: September 26, 2001

**SUBJECT: Pre-Season Inspection
(owner's expense)**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	All	All	All

Proper vehicle preparation is necessary after summer months or when a vehicle has not been used for more than one month. Any worn, broken or damaged parts found during the storage procedure should have been replaced. If not, proceed with the replacement.

Unless otherwise specified, engine should be turned off for preparation procedures.

LUBRICATION/INSPECTION

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

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

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 appropriate *Shop Manual*.

FUEL SYSTEM

Remove rags from air intake and exhaust system. Replace fuel filter in reservoir. See appropriate *Shop Manual*, LUBRICATION AND MAINTENANCE section, for proper procedure.

Dismount and disassemble carburetors to make sure they are clean and set as per vehicle specifications. Pay special attention to jets cleanliness. Do not hesitate to replace any jets having gum or varnish on their surfaces (on Mini Z, clean also fuel strainer). See appropriate *Shop Manual* for procedure.

Remove and discard fuel filter at carburetor inlets if not done yet.

Check fuel valve and primer/choke for proper operation.

2001 Models Equipped with a TM40 Carburetor

Remove intake resonator.

Remove carburetors from engine. Lean carburetors backward to release carburetor strap from bracket.

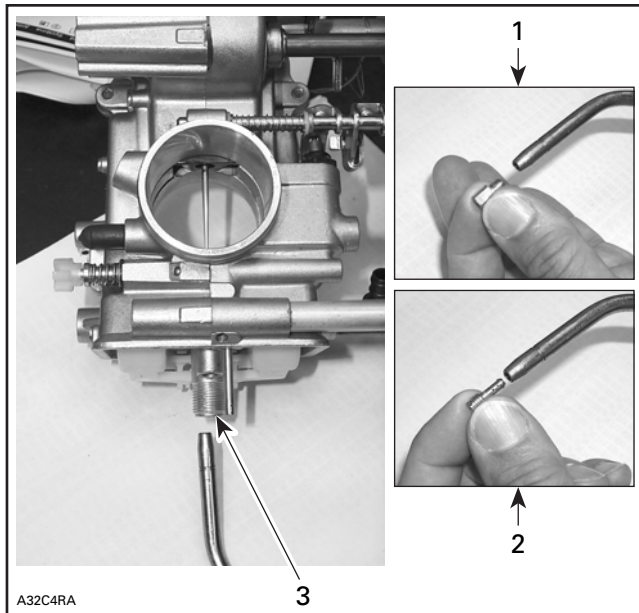
Unplug fuel intake hose.

Unscrew drain plugs and drain fuel out of carburetors.

Remove float bowl.

Fuel is flammable and explosive. Never smoke or allow flame or spark in vicinity. Always wipe off any fuel spillage from the vehicle.

On each carburetor, remove main jet and pilot jet. Blow compressed air in carburetor components as shown in following picture to remove possible silicone particles.



1. Blow compressed air in main jet
2. Blow compressed air in pilot jet
3. Blow compressed air in needle jet with throttle open

Lift piston valve and blow air in jet ducts.



Clean silicone from float bowl.



Silicone particles may severely alter carburetor operation.

Reinstall jets.

Remove and discard O-ring from float bowl.

Clean float bowl and carburetor in order to remove any silicone.

Install a new O-ring on float bowl.

Reinstall float bowl on carburetor.

Reinstall drain plug.

All Models

Inspect fuel system for any leaks.

Inspect throttle cables for proper synchronization. Refer to ENGINE section then look for **Carburetor and Fuel Pump** in appropriate *Shop Manual*.

Add 500 mL (17 U.S. oz) of recommended injection oil to the first full filled fuel tank.

ENGINE

Perform a leak test on the engine to check all seals and gaskets. Refer to ENGINE section then look for **Leak Test** in appropriate *Shop Manual*.

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

CAUTION: Use BOMBARDIER injection oil mineral or synthetic as recommended in TECHNICAL DATA.

Check condition of spark plugs. Replace if necessary. Refer to ELECTRICAL section then look for **Spark Plugs** in appropriate *Shop Manual*.

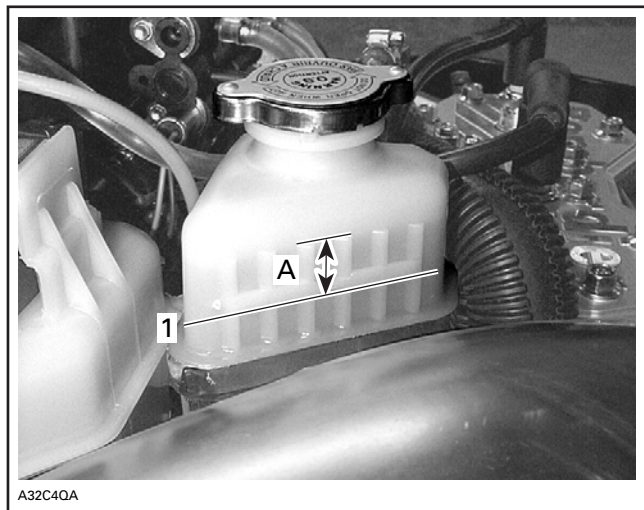
NOTE: Prior to installing new spark plugs, start engine with the old spark plugs to burn excess storage oil. Then, install new properly gapped spark plugs.

Check oil filter and change it, if needed. Adjust oil injection pump for proper engine lubrication.

COOLING SYSTEM

To perform a cooling system leak refer to ENGINE section in appropriate *Shop Manual*.

Check coolant level in coolant reservoir. Add coolant if necessary. If engine is cold, refill up to 15 mm (5/8 in) over COLD level line. If engine is hot, refill up to 25 mm (1 in) over COLD level line.



1. Cold level line
A. 15 mm (5/8 in)

Inspect fan drive belt on air-cooled models, adjust or replace if required.

AIR FILTER CLEANING

Check that the air silencer is clean and dry then properly reinstall the filter. Refer to appropriate *Shop Manual*, LUBRICATION AND MAINTENANCE section, for proper procedure.

CAUTION: These snowmobiles have been calibrated with the filter installed. Operating the snowmobile without it may cause engine damage.

TRANSMISSION/CHAINCASE

Check drive chain tension and adjust if necessary. Chaincase oil should have been changed in the vehicle storage procedure. If not, drain then refill with proper amount of chaincase oil. For liquid-cooled snowmobiles and Skandic WT Series, use Bombardier synthetic chaincase oil (P/N 413 803 300). For air-cooled snowmobiles (except Skandic WT Series), use chaincase oil (P/N 413 801 900). Refer to TRANSMISSION section in appropriate *Shop Manual*.

BRAKE SYSTEM

Inspect brake pads for proper thickness. Refer to TRANSMISSION section then look for **Brake** in appropriate *Shop Manual*.

Hydraulic Brake

Check brake fluid in reservoir for proper level. Add fluid (DOT 4) as required.

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

Mechanical Brake

For vehicles equipped with a ratchet wheel, check for proper ratchet operation. Refer to TRANSMISSION section then look for **Brake** in appropriate *Shop Manual*.

DRIVE AND DRIVEN PULLEYS

Clean drive and driven pulleys with parts cleaner (P/N 413 711 809).

Refer to TRANSMISSION section then look for **Drive and Driven Pulleys** in appropriate *Shop Manual*.

All Models Except Mini Z

Inspect belt for cracks, fraying or abnormal wear. Replace if necessary. Make sure to install the proper belt with arrow printed on belt pointing toward front of vehicle.

Mini Z Model Only

Retorque clutch screw. Refer to TRANSMISSION section then look for **Clutch** in the appropriate *Shop Manual*.

BATTERY (if equipped)

Wet Batteries Only

Check electrolyte level in battery. Refill if necessary with distilled water.

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.

All Batteries

Fully charge battery.

Never charge or boost battery while installed on vehicle.

Reinstall battery in vehicle. Refer to ELECTRICAL section then look for **Battery** in appropriate *Shop Manual*.

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 293 550 004), as required.

Inspect spark plug cables condition and proper connection.

Perform engine timing according to appropriate *Shop Manual* procedure.

Check headlamp beam aiming, brake/taillight, gauges and pilot lamps, electrical instruments, switches and DESS system (if applicable). Adjust or replace if needed.

Start engine and check for proper engine and electrical operation.

Models with DPM and Air Pump (enrichment mode)

Unplug hose coming from air pump at DPM manifold.

Run engine at 3000 RPM until all liquid has escaped from that hose (about 2 to 3 minutes).

Reconnect hose.

Please route to :

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



No. **2002-5**

Date: October 5, 2001

SUBJECT: High Altitude/Sea Level Specifications

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All	All	All

The present bulletin supplies all information **required to modify** above mentioned models for **high altitude and sea level** riding.

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

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

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

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

Mach Z (Tech Plus)

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
Clutching											
Spring	Green/Blue 414 768 200	←	←	←	←	←	←	←	←	←	←
Ramp	417 005 295	←	←	←	←	←	←	←	←	←	←
Calibration screw position	2	3	4	3	4	5					
Pin	417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100	4200	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100	8300	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude	Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
Clutching											
Spring	Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° (anodized) 417 126 385	←	←	←	←	←	←	←	←	←

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 300	Spring (Violet/Yellow)	1
417 004 309	Pin (Hollow)	3

CARBURATION

Altitude	Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
Calibration												
Main jet	290	←	←	←	←	←	←	←	←	←	←	PTO CTR MAG
Jet needle	8ADY1/41	←	←	←	←	←	←	←	←	←	←	3
Needle position	3	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	←	3
Pilot jet	50	←	←	←	←	←	←	←	←	←	←	3
Air screw	4.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet	O-2 (327)	←	←	←	←	←	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	←	←	←	←	—
Idle	RPM ± 200	2000	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6	—

MAIN JET CHART

Altitude	Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
Temperature												
- 40°C - 40°F												PTO CTR MAG
- 30°C - 20°F												PTO CTR MAG
- 20°C - 4°F	290	←	←	←	←	←	←	←	←	←	←	PTO CTR MAG
- 10°C 14°F												PTO CTR MAG
0°C 32°F												PTO CTR MAG
10°C 50°F												PTO CTR MAG
20°C 70°F												PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

Mach Z (Sport)

DRIVE PULLEY

Altitude	Sea Level	600 m 2000 ft		1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Green/Blue 414 768 200	←	←	Violet/Yellow 415 015 300	←	←	
Ramp	417 005 295	←	←	417 005 293X	←	←	
Calibration screw position	2	3	4	3	4	5	
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	
Engagement RPM ± 100	4200	←	←	←	←	←	
Maximum RPM ± 100	8300	←	←	←	←	←	

DRIVEN PULLEY (Mach Z)

Altitude	Sea Level	600 m 2000 ft		1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Beige 414 558 900	←	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	(degrees)	53° - 44° 417 126 387	←	←	50° - 47° 417 126 339	←	←

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 300	Spring (Violet/Yellow)	1
417 004 309	Pin (Hollow)	3
417 126 339	Cam 50° - 47°	1
404 112 300	Main jet 200	3
404 111 200	Main jet 220	3
404 100 200	Main jet 240	3
404 100 600	Main jet 260	3
404 100 400	Main jet 270	3
417 005 293X	Ramp	3

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude	Sea Level	600 m 2000 ft		1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet	290	270	260	240	220	200		PTO CTR MAG
Jet needle	8ADY1/41	←	←	←	←	←		3
Needle position	3	3	2	2	2	1		—
Slide cut-away	2.0	←	←	←	←	←		3
Pilot jet	50	←	←	←	←	←		3
Mixture screw	4.5	←	←	←	←	←		—
Valve seat	1.5	←	←	←	←	←		—
Needle jet	O-2 (327)	←	←	←	←	←		3
Float level	mm	21.0	←	←	←	←		—
Idle	RPM ± 200	2000	←	←	←	←		—
Idle throttle valve position	mm	1.3	1.4	1.4	1.5	1.5	1.6	—

MAIN JET CHART

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

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

MX Z 800 (Trail/Sport/Sport R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet/Yellow 415 015 300	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 474	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	5					
Pin		417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		7900	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° - 44° (anodized) 417 126 385	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket, 74 link chain, 13 wide.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 754 200	Spring (Pink/Violet)	1
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 107 900	Main jet 420	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	2
404 161 977	Jet needle (9ZLY5-58)	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		520N	470	440	420	390	360	PTO MAG					
Jet needle		9ZLY2-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level		mm	N.A.	—	—	—	—	—	—	—	—	—	—
Idle		RPM ± 200	1500	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position		mm	1.7	1.8	1.9	2.0	2.2	←	←	←	←	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		530N	500	470	450	420	390	PTO MAG					
- 30°C - 20°F		530N	480	450	430	400	370	PTO MAG					
- 20°C - 4°F		520N	470	440	420	390	360	PTO MAG					
- 10°C 14°F		510N	460	430	410	380	350	PTO MAG					
0°C 32°F		500	450	420	400	370	340	PTO MAG					
10°C 50°F		490	440	410	390	360	330	PTO MAG					
20°C 70°F		480	430	400	380	350	320	PTO MAG					

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

MX Z 800 (X/X R/Adrenaline R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet/Yellow 415 015 300	←	←	Pink/Violet 414 754 200	←	←					
Ramp		417 222 474	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	5					
Pin		417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	4200	←	←	←	←	←	←	←
Maximum RPM ± 100		7900	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° - 44° (anodized) 417 126 385	←	←	44° (anodized) 417 126 445	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket, 74 link chain, 13 wide.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 754 200	Spring (Pink/Violet)	1
417 126 445	Cam 44° (anodized)	1

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		520N	←	←	←	←	←	←	←	←	←	←	PTO MAG
Jet needle		9ZLY2-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	2.0	2.2	←	←	←	←	←	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		←	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 30°C - 20°F		←	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 2°C - 4°F		520N	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 10°C 14°F		←	←	←	←	←	←	←	←	←	←	←	PTO MAG
0°C 32°F		←	←	←	←	←	←	←	←	←	←	←	PTO MAG
10°C 50°F		←	←	←	←	←	←	←	←	←	←	←	PTO MAG
20°C 70°F		←	←	←	←	←	←	←	←	←	←	←	PTO MAG

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

NOTE: Shaded columns give factory settings.

Summit 800 (X/Sport/Sport R/HM/HM X/HM R/HM X R)

DRIVE PULLEY

Altitude		Sea Level	Altitude				
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching	Spring	←	Blue/Orange 414 639 000	←	←	←	←
	Ramp	←	417 222 381	←	←	←	←
	Calibration screw position	3	1	3	5	4	6
	Pin	417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
	Engagement RPM ± 100	3800	4000	←	←	4200	←
	Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	Altitude					
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Clutching	Spring	←	Violet 414 978 300	←	←	←	←	
	Spring tension	Kg ± 0.7 lb ± 1.5	←	N.A.	←	←	←	←
	Cam angle	° (degrees)	←	44° (anodized) 417 126 445	←	←	←	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

CARBURATION

Altitude		Sea Level	Altitude					Qty	
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Calibration	Main jet	←	520N	←	←	←	←	PTO MAG	
	Jet needle	←	9ZLY2-58	←	←	←	←	2	
	Needle position	←	N.A.	←	←	←	←	—	
	Slide cut-away	←	2.0	←	←	←	←	2	
	Pilot jet	←	17.5	←	←	←	←	2	
	Air screw	←	1.5	←	←	←	←	—	
	Valve seat	←	1.5	←	←	←	←	—	
	Needle jet	←	N.A.	←	←	←	←	2	
	Float level	mm	—	N.A.	—	—	←	—	—
	Idle	RPM ± 200	←	← 1500	←	←	←	←	—
	Idle throttle valve position	mm	1.7	1.8	1.9	2.0	2.2	←	—

MAIN JET CHART

Altitude		Sea Level	Altitude					Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Temperature	- 40°C - 40°F							PTO MAG
	- 30°C - 20°F							PTO MAG
	- 20°C - 4°F	←	520N	←	←	←	←	PTO MAG
	- 10°C 14°F							PTO MAG
	0°C 32°F							PTO MAG
	10°C 50°F							PTO MAG
	20°C 70°F							PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700 (Adrenaline/X R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Green/Violet 414 762 800	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 381	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	6					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	50° - 47° 417 126 580	←	←	←	←	←	←	←	←	←	←

Additional information: At 1800 m (6000 ft), un-screw red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	←	←	←	←	←	←	←	←	←	←	PTO MAG
Jet needle		9ZLY3-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.7	1.8	1.9	—	—	—	—	—	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 10°C 14°F													PTO MAG
0°C 32°F													PTO MAG
10°C 50°F													PTO MAG
20°C 70°F													PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700 (X)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Green/Violet 414 762 800	←	←	←	←	←
Ramp		417 222 381	←	←	←	←	←
Calibration screw position		3	4	5	3	4	6
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100		3800	←	←	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←	←
Cam angle	° (degrees)	48° - 44° 417 126 585	←	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		510N	←	←	←	←	←	PTO MAG
Jet needle		9ZLY3-58	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.7	1.8	1.9	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	PTO MAG
- 10°C 14°F								PTO MAG
0°C 32°F								PTO MAG
10°C 50°F								PTO MAG
20°C 70°F								PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700 (Renegade R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet/Yellow 414 015 300	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 372	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	6					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° 417 126 580	←	←	←	←	←	←	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	←	←	←	←	←	←	←	←	←	←	PTO MAG
Jet needle		9ZLY3-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.7	1.8	1.9	—	—	—	—	—	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 10°C 14°F													PTO MAG
0°C 32°F													PTO MAG
10°C 50°F													PTO MAG
20°C 70°F													PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700 (Sport/Trail)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Green/Violet 414 762 800	←	←	←	←	←	←	←	←	←	←
	Ramp	417 222 381	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	3	4	5	3	4	6					
	Pin	417 004 308 (Solid)	←	←	←	417 004 309 (Hollow)	←	←	←	←	←	←
	Engagement RPM ± 100	3800	←	←	←	←	←	←	←	←	←	←
	Maximum RPM ± 100	8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Beige 414 558 900	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	48° - 44° 417 126 585	←	←	←	←	←	←	←	←	←

Additional information: At 1800 m (6000 ft), un-screw red RAVE screw to be flush with RAVE cap.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 104 900	Main jet 340	2
404 106 300	Main jet 380	2
404 101 000	Main jet 410	2
404 106 500	Main jet 450	2
404 106 800	Main jet 480	2
404 161 976	Jet needle (9ZLY4-58)	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	510N	480	450	410	380	340	PTO MAG					
	Jet needle	9ZLY3-58	←	←	9ZLY4-58	←	←	←	←	←	←	←	2
	Needle position	N.A.	←	←	←	←	←	←	←	←	←	←	—
	Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	←	2
	Pilot jet	17.5	←	←	←	←	←	←	←	←	←	←	2
	Mixture screw	1.5	←	←	←	←	←	←	←	←	←	←	—
	Valve seat	1.5	←	←	←	←	←	←	←	←	←	←	—
	Needle jet	P-0	←	←	←	←	←	←	←	←	←	←	2
	Float level	mm	—	—	—	—	—	—	—	—	—	—	—
	Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	—
	Idle throttle valve position	mm	1.5	1.6	1.7	1.7	1.8	1.9	—				

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature	- 40°C - 40°F	520N	510N	480	440	400	370	PTO MAG					
	- 30°C - 20°F	510N	500	460	430	390	350	PTO MAG					
	- 20°C - 4°F	510N	480	450	410	380	340	PTO MAG					
	- 10°C 14°F	500	470	430	400	360	330	PTO MAG					
	0°C 32°F	480	450	420	380	350	310	PTO MAG					
	10°C 50°F	470	440	400	370	340	300	PTO MAG					
	20°C 70°F	460	430	390	360	330	290	PTO MAG					

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

MX Z 700 (Sport R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Green/Violet 414 762 800	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 381	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	6					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	50° - 47° 417 126 580	←	←	←	←	←	←	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 104 900	Main jet 340	2
404 106 300	Main jet 380	2
404 101 000	Main jet 410	2
404 106 500	Main jet 450	2
404 106 800	Main jet 480	2
404 161 976	Jet needle (9ZLY4-58)	2

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	480	450	410	380	340	PTO MAG					
Jet needle		9ZLY3-58	←	←	9ZLY4-58	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.7	1.8	1.9	—	—	—	—	—	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		520N	510N	480	440	400	370	PTO MAG					
- 30°C - 20°F		510N	500	460	430	390	350	PTO MAG					
- 20°C - 4°F		510N	480	450	410	380	340	PTO MAG					
- 10°C 14°F		500	470	430	400	360	330	PTO MAG					
0°C 32°F		480	450	420	380	350	310	PTO MAG					
10°C 50°F		470	440	400	370	340	300	PTO MAG					
20°C 70°F		460	430	390	360	330	290	PTO MAG					

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

NOTE: Shaded columns give factory settings.

Summit 700 (Sport)

DRIVE PULLEY

Altitude		Sea Level	Altitude				
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	←	Violet/Yellow 415 015 300	←	←	←	←	
Ramp	←	417 222 372	←	←	←	←	
Calibration screw position	3	1	3	5	4	6	
Pin	417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←	
Engagement RPM ± 100	←	4100	←	←	←	←	
Maximum RPM ± 100	←	8000	←	←	←	←	

DRIVEN PULLEY

Altitude		Sea Level	Altitude				
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	←	Beige 414 558 900	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	8.0 17.6	←	←	←	←	
Cam angle	° (degrees)	47° 417 126 580	←	←	←	←	

Additional information: At 1800 m (6000 ft), un-screw red RAVE screw to be flush with RAVE cap.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	Altitude					Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Calibration								
Main jet	←	510N	←	←	←	←	PTO MAG	
Jet needle	←	9ZLY3-58	←	←	←	←	2	
Needle position	←	N.A.	←	←	←	←	—	
Slide cut-away	←	2.0	←	←	←	←	2	
Pilot jet	←	17.5	←	←	←	←	2	
Mixture screw	←	1.5	←	←	←	←	—	
Valve seat	←	1.5	←	←	←	←	—	
Needle jet	←	P-0	←	←	←	←	2	
Float level	mm	—	—	—	—	—	—	
Idle	RPM ± 200	←	1500	←	←	←	←	
Idle throttle valve position	mm	1.5	1.6	1.7	←	1.8	1.9	

MAIN JET CHART

Altitude		Sea Level	Altitude					Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Temperature								
- 40°C - 40°F							PTO MAG	
- 30°C - 20°F							PTO MAG	
- 20°C - 4°F	←	510N	←	←	←	←	PTO MAG	
- 10°C 14°F							PTO MAG	
0°C 32°F							PTO MAG	
10°C 50°F							PTO MAG	
20°C 70°F							PTO MAG	

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

Summit 700 (Sport R), Grand Touring 700 (Olympic)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	←	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	←	417 222 381	←	←	←	←	←
Calibration screw position	3	1	3	5	4	6	
Pin	417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←	←
Engagement RPM ± 100	←	4100	←	←	←	←	←
Maximum RPM ± 100	←	8000	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	←	Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	N.A.	←	←	←	←
Cam angle	° (degrees)	←	44° 417 126 445	←	←	←	←

Additional information: At 1800 m (6000 ft), un-screw red RAVE screw to be flush with RAVE cap.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet	←	510N	←	←	←	←	←	PTO MAG
Jet needle	←	9ZLY3-58	←	←	←	←	←	2
Needle position	←	N.A.	←	←	←	←	←	—
Slide cut-away	←	2.0	←	←	←	←	←	2
Pilot jet	←	17.5	←	←	←	←	←	2
Mixture screw	←	1.5	←	←	←	←	←	—
Valve seat	←	1.5	←	←	←	←	←	—
Needle jet	←	P-0	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—	—
Idle	RPM ± 200	←	1500	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	←	1.8	1.9	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F	←	510N	←	←	←	←	←	PTO MAG
- 10°C 14°F								PTO MAG
0°C 32°F								PTO MAG
10°C 50°F								PTO MAG
20°C 70°F								PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 600 (Adrenaline/X R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Green/Violet 414 762 800	←	←	Green/Blue 414 768 200	←	←
Ramp		417 222 372	←	←	←	←	←
Calibration screw position		3	4	5	3	4	5
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100		4100	←	←	4300	←	←
Maximum RPM ± 100		8000	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←
Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 768 200	Spring (Green/Blue)	1
417 004 309	Pin (Hollow)	3

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		500	←	←	←	←	←	PTO MAG
Jet needle		9HGY1-58	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		20	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		500	←	←	←	←	←	PTO MAG
- 10°C 14°F								PTO MAG
0°C 32°F								PTO MAG
10°C 50°F								PTO MAG
20°C 70°F								PTO MAG

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

MX Z 600 (X)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Green/White 417 222 371	←	←	Green/Blue 414 768 200	←	←					
Ramp		417 222 372	←	←	417 005 294	←	←					
Calibration screw position		4	5	6	3	4	5					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←					
Engagement RPM ± 100		4100	←	←	4300	←	←					
Maximum RPM ± 100		8000	←	←	←	←	←					

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Beige 414 558 900	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.65 17.0	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° 417 126 337	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 768 200	Spring (Green/Blue)	1
417 005 294	Ramp	3

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		500	←	←	←	←	←	←	←	←	←	←	PTO MAG
Jet needle		9HGY1-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		20	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	←	←	←	←	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		500	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 10°C 14°F													PTO MAG
0°C 32°F													PTO MAG
10°C 50°F													PTO MAG
20°C 70°F													PTO MAG

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

MX Z 600 (Renegade R), Summit 600 (R Europe)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Violet/Violet 414 817 900	←	←	←	←	←	←	←	←	←	←
	Ramp	417 222 372	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	3	4	5	3	4	5					
	Pin	417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
	Engagement RPM ± 100	4100	←	←	←	←	←	←	←	←	←	←
	Maximum RPM ± 100	8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←	←	←	←	←

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
415 034 900	Spring (Violet/Blue)	1

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	500	←	←	←	←	←	←	←	←	←	PTO MAG	
	Jet needle	9HGY1-58	←	←	←	←	←	←	←	←	←	2	
	Needle position	N.A.	←	←	←	←	←	←	←	←	←	—	
	Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	2	
	Pilot jet	20	←	←	←	←	←	←	←	←	←	2	
	Mixture screw	1.5	←	←	←	←	←	←	←	←	←	—	
	Valve seat	1.5	←	←	←	←	←	←	←	←	←	—	
	Needle jet	N.A.	←	←	←	←	←	←	←	←	←	2	
	Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—
	Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	—
	Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	←	←	←	—	

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature	- 40°C - 40°F											PTO MAG	
	- 30°C - 20°F											PTO MAG	
	- 20°C - 4°F	500	←	←	←	←	←	←	←	←	←	PTO MAG	
	- 10°C 14°F											PTO MAG	
	0°C 32°F											PTO MAG	
	10°C 50°F											PTO MAG	
	20°C 70°F											PTO MAG	

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

NOTE: Shaded columns give factory settings.

MX Z 600 (Sport/Trail)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Green/White 417 222 371	←	←	Green/Blue 414 768 200	←	←					
Ramp		417 222 372	←	←	417 005 294	←	←					
Calibration screw position		4	5	6	3	4	5					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←					
Engagement RPM ± 100		4100	←	←	4300	←	←					
Maximum RPM ± 100		8000	←	←	←	←	←					

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Beige 414 558 900	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.65 17.0	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° 417 126 337	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 768 200	Spring (Green/Blue)	1
417 005 294	Ramp	3
404 161 992	Jet needle (9HGY4-58)	2
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 101 000	Main jet 410	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	2

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		500	470	440	410	390	360	PTO MAG					
Jet needle		9HGY1-58	←	←	9HGY4-58	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	2	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		20	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	2.0	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	←	←	←	←	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		520N	500	470	450	420	390	PTO MAG					
- 30°C - 20°F		510N	480	450	430	400	370	PTO MAG					
- 20°C - 4°F		500	470	440	420	390	360	PTO MAG					
- 10°C 14°F		490	460	430	410	380	350	PTO MAG					
0°C 32°F		480	450	420	400	370	340	PTO MAG					
10°C 50°F		470	440	410	390	360	330	PTO MAG					
20°C 70°F		460	430	400	380	350	320	PTO MAG					

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

NOTE: Shaded columns give factory settings.

MX Z 600 (Sport R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Green/Violet 414 762 800	←	←	Green/Blue 414 768 200	←	←					
	Ramp	417 222 372	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	3	4	5	3	4	5					
	Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←					
	Engagement RPM ± 100	4100	←	←	4300	←	←					
	Maximum RPM ± 100	8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 768 200	Spring (Green/Blue)	1
404 161 992	Jet needle (9HGY4-58)	2
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 101 000	Main jet 410	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	500	470	440	410	390	360	PTO MAG					
	Jet needle	9HGY1-58	←	←	9HGY4-58	←	←	←	←	←	←	←	2
	Needle position	N.A.	←	←	2	←	←	←	←	←	←	←	—
	Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	←	2
	Pilot jet	20	←	←	←	←	←	←	←	←	←	←	2
	Mixture screw	1.5	←	←	2.0	←	←	←	←	←	←	←	—
	Valve seat	1.5	←	←	←	←	←	←	←	←	←	←	—
	Needle jet	N.A.	←	←	←	←	←	←	←	←	←	←	2
	Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—
	Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	—
	Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	←	←	←	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature	- 40°C - 40°F	520N	500	470	450	420	390	PTO MAG					
	- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG					
	- 20°C - 4°F	500	470	440	420	390	360	PTO MAG					
	- 10°C 14°F	490	460	430	410	380	350	PTO MAG					
	0°C 32°F	480	450	420	400	370	340	PTO MAG					
	10°C 50°F	470	440	410	390	360	330	PTO MAG					
	20°C 70°F	460	430	400	380	350	320	PTO MAG					

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

Summit 600 (Sport)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	Violet/Green 415 015 400	←	←	←	←
Ramp		←	417 222 381	←	←	←	←
Calibration screw position		3	1	3	5	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100		← 3800	4000	←	←	4200	←
Maximum RPM ± 100		←	8000	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	Beige 414 558 900	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	8.1 18.0	←	←	←	←
Cam angle	° (degrees)	←	44° 417 126 333	←	←	←	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		←	500	←	←	←	←	PTO MAG
Jet needle		←	9HGY1-58	←	←	←	←	2
Needle position		←	N.A.	←	←	←	←	—
Slide cut-away		←	2.0	←	←	←	←	2
Pilot jet		←	20	←	←	←	←	2
Mixture screw		←	1.5	←	←	←	←	—
Valve seat		←	1.5	←	←	←	←	—
Needle jet		←	N.A.	←	←	←	←	2
Float level	mm	←	N.A.	←	←	←	←	—
Idle	RPM ± 200	←	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		←	500	←	←	←	←	PTO MAG
- 10°C 14°F								PTO MAG
0°C 32°F								PTO MAG
10°C 50°F								PTO MAG
20°C 70°F								PTO MAG

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

NOTE: Shaded columns give factory settings.

Summit 600 (Sport R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	Violet/Blue 415 034 900	←	←	←	←
Ramp		←	417 222 372	←	←	←	←
Calibration screw position		3	1	3	5	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100		3800	4000	←	←	4200	←
Maximum RPM ± 100		←	8000	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		←	Violet 414 978 300	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	N.A.	←	←	←	←
Cam angle	° (degrees)	←	47° - 44° (anodized) 417 126 385	←	←	←	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		←	500	←	←	←	←	PTO MAG
Jet needle		←	9HGY1-58	←	←	←	←	2
Needle position		←	N.A.	←	←	←	←	—
Slide cut-away		←	2.0	←	←	←	←	2
Pilot jet		←	20	←	←	←	←	2
Mixture screw		←	1.5	←	←	←	←	—
Valve seat		←	1.5	←	←	←	←	—
Needle jet		←	N.A.	←	←	←	←	2
Float level	mm	←	N.A.	←	←	←	←	—
Idle	RPM ± 200	←	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		←	500	←	←	←	←	PTO MAG
- 10°C 14°F								PTO MAG
0°C 32°F								PTO MAG
10°C 50°F								PTO MAG
20°C 70°F								PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 500 (Sport/Trail)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching	Spring	Green/White 414 222 371	←	←	←	←	←
	Ramp	417 222 376	←	←	←	←	←
	Calibration screw position	4	5	6	3	4	5
	Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
	Engagement RPM ± 100	4400	←	←	4600	←	←
	Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching	Spring	Beige 414 558 900	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	7.9 17.5	←	←	←	←
	Cam angle	° (degrees)	42° 417 126 590	←	←	←	←

Additional information: At 1800 m (6000 ft) and higher, install RAVE valve spring (P/N 420 239 941).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 108 600	Pilot jet 20	2
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 107 900	Main jet 420	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	2
420 239 941	RAVE valve spring (0.8 mm x 52.5 mm)	2
404 161 992	Jet needle (9HGY4-58)	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Calibration	Main jet	500	470	440	420	390	360	PTO MAG	
	Jet needle	9HGY1-58	←	←	9HGY4-58	←	←	2	
	Needle position	N.A.	←	←	2	←	←	—	
	Slide cut-away	2.0	←	←	←	←	←	2	
	Pilot jet	17.5	←	←	20	←	←	2	
	Mixture screw	1.0	←	←	2.0	←	←	—	
	Valve seat	1.5	←	←	←	←	←	—	
	Needle jet	N.A.	←	←	←	←	←	2	
	Float level	mm	N.A.	←	←	←	←	←	—
	Idle	RPM ± 200	1600	←	←	←	←	←	—
	Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature	- 40°C - 40°F	520N	500	470	450	420	390	PTO MAG
	- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG
	- 20°C - 4°F	500	470	440	420	390	360	PTO MAG
	- 10°C 14°F	490	460	430	410	380	350	PTO MAG
	0°C 32°F	480	450	420	400	370	340	PTO MAG
	10°C 50°F	470	440	410	390	360	330	PTO MAG
	20°C 70°F	460	430	400	380	350	320	PTO MAG

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

MX Z 500 (Sport R)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Green/Pink 414 756 900	←	←	←	Green/Violet 414 762 800	←	←
Ramp	417 222 376	←	←	417 005 296	←	←	
Calibration screw position	3	4	5	3	4	5	
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	
Engagement RPM ± 100	4400	←	←	4700	←	←	
Maximum RPM ± 100	8000	←	←	←	←	←	

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Violet 414 978 300	←	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←
Cam angle	° (degrees)	44° (anodized) 417 126 445	←	←	←	←	←

Additional information: At 1800 m (6000 ft) and higher, install RAVE valve spring (P/N 420 239 941).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 762 800	Spring (Green/Violet)	1
417 005 296	Ramp 296	3
404 108 600	Pilot jet 20	2
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 107 900	Main jet 420	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	2
420 239 941	RAVE valve spring (0.8 mm x 52.5 mm)	2
404 161 992	Jet needle (9HGY4-58)	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		500	470	440	420	390	360	PTO MAG
Jet needle		9HGY1-58	←	←	9HGY4-58	←	←	2
Needle position		N.A.	←	←	2	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		17.5	←	←	20	←	←	2
Mixture screw		1.0	←	←	2.0	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	2
Float level	mm	N.A.	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F		520N	500	470	450	420	390	PTO MAG
- 30°C - 20°F		510N	480	450	430	400	370	PTO MAG
- 20°C - 4°F		500	470	440	420	390	360	PTO MAG
- 10°C 14°F		490	460	430	410	380	350	PTO MAG
0°C 32°F		480	450	420	400	370	340	PTO MAG
10°C 50°F		470	440	410	390	360	330	PTO MAG
20°C 70°F		460	430	400	380	350	320	PTO MAG

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

MX Z 500 F (Fan)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Red/Yellow 414 817 500	←	←	Blue/Violet 414 817 800	←	←					
	Ramp	417 005 296	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	3	4	5	3	4	5					
	Pin	417 004 309 (Hollow)	←	←	←	←	←	←	←	←	←	←
	Engagement RPM ± 100	3500	←	←	4000	←	←	←	←	←	←	←
	Maximum RPM ± 100	6700	←	←	6800	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Yellow 415 092 800	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	0.0	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	47° - 44° 417 124 700	←	←	44° 417 126 574	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700). This connector must be plugged-in permanently in electronic box connector.

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 817 800	Spring (Blue/Violet)	1
417 005 296	Ramp 296	3
404 153 100	Pilot jet 45	2
404 130 400	Main jet 135	2
404 120 900	Main jet 150	2
404 119 300	Main jet 165	2
404 112 200	Main jet 180	2
404 119 400	Main jet 195	2
417 126 574	44° cam	1

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	210	195	180	165	150	135	PTO MAG					
	Jet needle	6AFY5	←	←	←	←	←	←	←	←	←	2	
	Needle position	4	4	3	3	←	←	←	←	←	←	—	
	Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	2	
	Pilot jet	40	←	←	45	←	←	←	←	←	←	2	
	Mixture screw	1.5	←	←	2.0	←	←	←	←	←	←	—	
	Valve seat	1.2	←	←	←	←	←	←	←	←	←	—	
	Needle jet	P-4 (159)	←	←	←	←	←	←	←	←	←	2	
	Float level	mm	23.9	←	←	←	←	←	←	←	←	—	
	Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	—	
	Idle throttle valve position	mm	1.9	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2	—	

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature	- 40°C - 40°F	220	210	190	175	160	145	PTO MAG					
	- 30°C - 20°F	220	200	185	170	155	140	PTO MAG					
	- 20°C - 4°F	210	195	180	165	150	135	PTO MAG					
	- 10°C 14°F	205	190	175	160	145	130	PTO MAG					
	0°C 32°F	200	185	170	155	140	125	PTO MAG					
	10°C 50°F	195	180	165	150	135	120	PTO MAG					
	20°C 70°F	195	180	165	150	135	120	PTO MAG					

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

MX Z 380 F (Fan)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Blue/Green on Violet 417 126 621	←	←	Violet/Green 415 015 400	←	←	
Block (Bombardier Lite)	417 118 100	←	←	←	←	←	
Weight (Bombardier Lite)	1 x 417 120 400 4 x 417 114 400	← 1 x ← 3 x	← 1 x ← 2 x	1 x 417 120 400	←	←	
Capsule (Bombardier Lite)	1 x 417 114 500	←	←	←	←	←	
Engagement RPM ± 100	3600	3700	3800	3900	←	←	
Maximum RPM ± 100	6800	←	←	←	←	←	

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Yellow 415 092 800	←	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	←	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 400	Spring (Violet/Green)	1
404 123 900	Main jet 120	1
404 130 400	Main jet 135	1
404 130 500	Main jet 145	1
404 118 200	Main jet 160	1
404 123 800	Main jet 170	1

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		185	170	160	145	135	120	2
Jet needle		6CDY1	←	←	←	←	←	2
Needle position		3	3	2	2	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Mixture screw		1.5	←	←	1.5	←	←	—
Valve seat		1.2	←	←	←	←	←	—
Needle jet		Q-2 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	1.9	2.0	2.0	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F		195	180	170	155	145	130	2
- 30°C - 20°F		190	175	165	150	140	125	2
- 20°C - 4°F		185	170	160	145	135	120	2
- 10°C 14°F		180	165	155	140	130	115	2
0°C 32°F		175	160	150	135	125	110	2
10°C 50°F		170	155	145	130	120	110	2
20°C 70°F		170	155	145	130	120	110	2

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

Legend 380 F (Fan)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Blue/Green on Violet 417 126 621	←	←	←	←	←	←	←	←	←	←
Block (Bombardier Lite)		417 118 100	←	←	←	←	←	←	←	←	←	←
Weight (Bombardier Lite)		1 x 417 120 400 4 x 417 114 400	← 1 x ← 3 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x
Capsule (Bombardier Lite)		1 x 417 114 500	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3600	3700	3800	3900	←	←	←	←	←	←	←
Maximum RPM ± 100		6800	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Yellow 415 092 800	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 400	Spring (Violet/Green)	1
404 123 900	Main jet 120	1
404 130 400	Main jet 135	1
404 130 500	Main jet 145	1
404 118 200	Main jet 160	1
404 123 800	Main jet 170	1

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		185	170	160	145	135	120	2					
Jet needle		6CDY1	←	←	←	←	←	←	←	←	←	←	2
Needle position		3	3	2	2	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	1.5	←	←	←	←	←	←	—
Valve seat		1.2	←	←	←	←	←	←	←	←	←	←	—
Needle jet		Q-2 (159)	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		195	180	170	155	145	130	2					
- 30°C - 20°F		190	175	165	150	140	125	2					
- 20°C - 4°F		185	170	160	145	135	120	2					
- 10°C 14°F		180	165	155	140	130	115	2					
0°C 32°F		175	160	150	135	125	110	2					
10°C 50°F		170	155	145	130	120	110	2					
20°C 70°F		170	155	145	130	120	110	2					

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

Grand Touring 380 F (Fan)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Blue/Green on Violet 417 126 621	←	←	←	←	←	←	←	←	←	←
Block (Bombardier Lite)		417 118 100	←	←	←	←	←	←	←	←	←	←
Weight (Bombardier Lite)		1 x 417 120 400 4 x 417 114 400	← 1 x ← 3 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x
Capsule (Bombardier Lite)		1 x 417 114 500	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3600	3700	3800	3900	←	←	←	←	←	←	←
Maximum RPM ± 100		6800	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Yellow 415 092 800	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 400	Spring (Violet/Green)	1
404 123 900	Main jet 120	1
404 130 400	Main jet 135	1
404 130 500	Main jet 145	1
404 118 200	Main jet 160	1
404 123 800	Main jet 170	1

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		185	170	160	145	135	120	←	←	←	←	←	2
Jet needle		6CDY1	←	←	←	←	←	←	←	←	←	←	2
Needle position		3	3	2	2	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	1.5	←	←	←	←	←	←	—
Valve seat		1.2	←	←	←	←	←	←	←	←	←	←	—
Needle jet		Q-2 (159)	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		195	180	170	155	145	130	110	100	90	80	70	2
- 30°C - 20°F		190	175	165	150	140	125	110	100	90	80	70	2
- 20°C - 4°F		185	170	160	145	135	120	110	100	90	80	70	2
- 10°C 14°F		180	165	155	140	130	115	100	90	80	70	60	2
0°C 32°F		175	160	150	135	125	110	100	90	80	70	60	2
10°C 50°F		170	155	145	130	120	110	100	90	80	70	60	2
20°C 70°F		170	155	145	130	120	110	100	90	80	70	60	2

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

Legend 500 F (Fan)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Red/Red 414 689 800	←	Yellow/Green 414 742 100	←	←	←	
Ramp	417 005 292X	←	←	←	←	←	
Calibration screw position	3	4	2	3	4	5	
Pin	417 004 309 (Hollow)	←	←	←	←	←	
Engagement RPM ± 100	2900	←	3300	←	←	←	
Maximum RPM ± 100	7000	←	←	←	←	←	

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Yellow 415 092 800	←	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	←	←	←	←	←
Cam angle	° (degrees)	47° - 44° 417 124 700	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 742 100	Spring (Yellow/Green)	1
404 153 100	Pilot jet (45)	2
404 130 400	Main jet 135	2
404 120 900	Main jet 150	2
404 119 300	Main jet 165	2
404 112 200	Main jet 180	2
404 119 400	Main jet 195	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet	210	195	180	165	150	135	PTO MAG	
Jet needle	6AFY5	←	←	←	←	←	2	
Needle position	4	4	3	3	←	←	—	
Slide cut-away	2.0	←	←	←	←	←	2	
Pilot jet	40	←	←	45	←	←	2	
Mixture screw	1.5	←	←	2.0	←	←	—	
Valve seat	1.2	←	←	←	←	←	—	
Needle jet	P-4 (159)	←	←	←	←	←	2	
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.0	2.1	2.2	2.2	2.2	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F	220	210	190	175	160	145	PTO MAG	
- 30°C - 20°F	220	200	185	170	155	140	PTO MAG	
- 20°C - 4°F	210	195	180	165	150	135	PTO MAG	
- 10°C 14°F	205	190	175	160	145	130	PTO MAG	
0°C 32°F	200	185	170	155	140	125	PTO MAG	
10°C 50°F	195	180	165	150	135	120	PTO MAG	
20°C 70°F	195	180	165	150	135	120	PTO MAG	

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

Summit 500 F (Fan)

DRIVE PULLEY

Altitude		Sea Level	Altitude				
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Yellow/Yellow 414 748 600	←	←	←	←	←	
Ramp	417 005 296	←	←	←	←	←	
Calibration screw position	1	1	2	3	4	5	
Pin	417 004 309 (Hollow)	←	←	←	←	←	
Engagement RPM ± 100	3800	←	←	←	←	←	
Maximum RPM ± 100	6700	←	←	←	←	←	

DRIVEN PULLEY

Altitude		Sea Level	Altitude				
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Yellow 415 092 800	←	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 pos. 3	←	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

Altitude		Sea Level	Altitude					Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Calibration								
Main jet	240	←	←	←	←	←	PTO MAG	
Jet needle	6AFY5	←	←	←	←	←	2	
Needle position	4	←	←	←	←	←	—	
Slide cut-away	2.0	←	←	←	←	←	2	
Pilot jet	70	←	←	←	←	←	2	
Mixture screw	2.25	2.5	3.0	3.5	←	←	—	
Valve seat	1.2	←	←	←	←	←	—	
Needle jet	P-8 (159)	←	←	←	←	←	2	
Float level	mm	23.9	←	←	←	←	—	
Idle	RPM ± 200	1650	←	←	←	←	—	
Idle throttle valve position	mm	1.8	2.0	2.1	2.2	←	←	—

MAIN JET CHART

Altitude		Sea Level	Altitude					Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Temperature								
- 40°C - 40°F							PTO MAG	
- 30°C - 20°F							PTO MAG	
- 20°C - 4°F	240	←	←	←	←	←	PTO MAG	
- 10°C 14°F							PTO MAG	
0°C 32°F							PTO MAG	
10°C 50°F							PTO MAG	
20°C 70°F							PTO MAG	

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

NOTE: Shaded columns give factory settings.

Grand Touring 800 (SE/SE Europe/Renegade R), Legend 800 (SE), Summit 800 (X Europe)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
Clutching												
Spring		Violet/Yellow 415 015 300	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 474	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	5					
Pin		417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		7900	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° (anodized) 417 126 385	←	←	←	←	44° (anodized) 417 126 445	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket, 74 link chain, 13 wide.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 817 900	Spring (Violet/Violet)	1
417 126 445	Cam 44° (anodized)	1

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
Calibration													
Main jet		520N	←	←	←	←	←	←	←	←	←	←	PTO MAG
Jet needle		9ZLY2-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level		mm	N.A.	←	←	←	←	←	←	←	←	←	—
Idle		RPM ± 200	1500	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position		mm	1.7	1.8	1.9	2.0	2.2	←	←	←	←	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
Temperature													
- 40°C - 40°F													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		520N	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 10°C 14°F													PTO MAG
0°C 32°F													PTO MAG
10°C 50°F													PTO MAG
20°C 70°F													PTO MAG

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

NOTE: Shaded columns give factory settings.

Grand Touring 700 (GS), Legend 700 (GS)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Blue/Yellow 414 689 500	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 372	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	6					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° 417 126 577	←	←	←	←	←	←	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	←	←	←	←	←	←	←	←	←	←	PTO MAG
Jet needle		9ZLY3-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	←	1.8	1.9	—	—	—	—	—	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 10°C 14°F													PTO MAG
0°C 32°F													PTO MAG
10°C 50°F													PTO MAG
20°C 70°F													PTO MAG

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

NOTE: Shaded columns give factory settings.

Grand Touring 700 (Sport), Legend 700 (Sport)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Blue/Yellow 414 689 500	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 372	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	6					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° 417 126 577	←	←	←	←	←	←	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 109 400	Main jet 340	2
404 106 300	Main jet 380	2
404 101 000	Main jet 410	2
404 106 500	Main jet 450	2
404 106 800	Main jet 480	2
404 161 976	Jet needle (9ZLY4-58)	2

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	480	450	410	380	340	PTO MAG					
Jet needle		9ZLY3-58	←	←	9ZLY4-58	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		17.5	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	←	1.8	1.9	—	—	—	—	—	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		520N	510N	480	440	400	370	PTO MAG					
- 30°C - 20°F		510N	500	460	430	390	350	PTO MAG					
- 20°C - 4°F		510N	480	450	410	380	340	PTO MAG					
- 10°C 14°F		500	470	430	400	360	330	PTO MAG					
0°C 32°F		480	450	420	380	350	310	PTO MAG					
10°C 50°F		470	440	400	370	340	300	PTO MAG					
20°C 70°F		460	430	390	360	330	290	PTO MAG					

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

NOTE: Shaded columns give factory settings.

Grand Touring 600 (GS/SE), Legend 600 (GS/SE)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Violet/Violet 414 817 900	←	←	Violet/Blue 415 034 900	←	←	
Ramp	417 222 372	←	←	←	←	←	
Calibration screw position	3	4	5	3	4	5	
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	
Engagement RPM ± 100	3600	←	←	3800	←	←	
Maximum RPM ± 100	8000	←	←	←	←	←	

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Violet 414 978 300	←	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←
Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 034 900	Spring (Violet/Blue)	1
417 004 309	Pin (Hollow)	3

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet	500	←	←	←	←	←	←	PTO MAG
Jet needle	9HGY1-58	←	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	←	2
Pilot jet	20	←	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	←	—
Needle jet	N.A.	←	←	←	←	←	←	2
Float level	mm	N.A.	←	←	←	←	←	←
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F	500	←	←	←	←	←	←	PTO MAG
- 10°C 14°F								PTO MAG
0°C 32°F								PTO MAG
10°C 50°F								PTO MAG
20°C 70°F								PTO MAG

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

Grand Touring 600 (Sport), Legend 600 (Sport)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Violet/Violet 414 817 900	←	←	←	←	←	←	←	←	←	←
	Ramp	417 222 372	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	3	4	5	3	4	5					
	Pin	417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
	Engagement RPM ± 100	3600	←	←	←	←	←	←	←	←	←	←
	Maximum RPM ± 100	8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—	—	—
	Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 034 900	Spring (Violet/Blue)	1
417 004 309	Pin (Hollow)	3
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 101 000	Main jet 410	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	2

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	500	470	440	410	390	360	PTO MAG					
	Jet needle	9HGY1-58	←	←	←	←	←	←	←	←	←	2	
	Needle position	N.A.	←	←	←	←	←	←	←	←	←	—	
	Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	2	
	Pilot jet	20	←	←	←	←	←	←	←	←	←	2	
	Mixture screw	1.5	←	←	←	2.0	←	←	←	←	←	—	
	Valve seat	1.5	←	←	←	←	←	←	←	←	←	—	
	Needle jet	N.A.	←	←	←	←	←	←	←	←	←	2	
	Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	
	Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	—	
	Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←	←	←	←	—	

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature	- 40°C - 40°F	520N	500	470	450	420	390	PTO MAG					
	- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG					
	- 20°C - 4°F	500	470	440	420	390	360	PTO MAG					
	- 10°C 14°F	490	460	430	410	380	350	PTO MAG					
	0°C 32°F	480	450	420	400	370	340	PTO MAG					
	10°C 50°F	470	440	410	390	360	330	PTO MAG					
	20°C 70°F	460	430	400	380	350	320	PTO MAG					

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

NOTE: Shaded columns give factory settings.

Grand Touring 500 (Sport/Europe), Legend 500 (Sport)

DRIVE PULLEY

Altitude	Sea Level	Altitude				
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet/Pink 414 949 500	←	←	Violet/Violet 414 817 900	←	←
Ramp	417 222 376	←	←	← 417 005 296	←	←
Calibration screw position	4	5	6	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100	3500	←	←	4000	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY (HPV)

Altitude	Sea Level	Altitude				
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	←
Cam angle	44° (anodized) 417 126 445	←	←	←	←	←

Additional information: At 1800 m (6000 ft) and higher, install RAVE valve spring (P/N 420 239 941).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 817 900	Spring (Violet/Violet)	1
417 004 309	Pin (Hollow)	3
417 005 296	Ramp (296)	3
404 108 600	Pilot jet 20	2
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 107 900	Main jet 420	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	2
420 239 941	RAVE valve spring (0.8 mm x 52.5 mm)	2
404 161 992	Jet needle (9HGY4-58)	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude	Sea Level	Altitude					Qty
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Calibration							
Main jet	500	470	440	420	390	360	PTO MAG
Jet needle	9HGY1-58	←	←	9HGY4-58	←	←	2
Needle position	N.A.	←	←	2	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	20	←	←	2
Mixture screw	1.0	←	←	2.0	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	N.A.	←	←	←	←	←	2
Float level	mm	N.A.	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←

MAIN JET CHART

Altitude	Sea Level	Altitude					Qty
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Temperature							
- 40°C - 40°F	520N	500	470	450	420	390	PTO MAG
- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG
- 20°C - 4°F	500	470	440	420	390	360	PTO MAG
- 10°C 14°F	490	460	430	410	380	350	PTO MAG
0°C 32°F	480	450	420	400	370	340	PTO MAG
10°C 50°F	470	440	410	390	360	330	PTO MAG
20°C 70°F	460	430	400	380	350	320	PTO MAG

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

Grand Touring 500 F (Fan)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Red/Orange 414 015 200	←	←	Yellow/Violet 414 678 400	←	←	
Ramp	417 005 296	←	←	←	←	←	
Calibration screw position	3	4	5	3	4	5	
Pin	417 004 309 (Hollow)	←	←	←	←	←	
Engagement RPM ± 100	3500	←	←	3800	←	←	
Maximum RPM ± 100	6700	←	←	6800	←	←	

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
Spring	Yellow 415 092 800	←	←	←	←	←	
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	←	←	←	←	←
Cam angle	° (degrees)	47° - 44° 417 124 700	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 678 400	Spring (Yellow/Violet)	1
404 153 100	Pilot jet (45)	2
417 005 296	Ramp	3
404 130 400	Main jet 135	2
404 120 900	Main jet 150	2
404 119 300	Main jet 165	2
404 112 200	Main jet 180	2
404 119 400	Main jet 195	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet	210	195	180	165	150	135	PTO MAG	
Jet needle	6AFY5	←	←	←	←	←	2	
Needle position	4	4	3	3	←	←	—	
Slide cut-away	2.0	←	←	←	←	←	2	
Pilot jet	40	←	←	45	←	←	2	
Mixture screw	1.5	←	←	2.0	←	←	—	
Valve seat	1.2	←	←	←	←	←	—	
Needle jet	P-4 (159)	←	←	←	←	←	2	
Float level	mm	23.9	←	←	←	←	—	
Idle	RPM ± 200	1650	←	←	←	←	—	
Idle throttle valve position	mm	1.9	2.0	2.1	2.2	2.2	2.2	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F	220	210	190	175	160	145	PTO MAG	
- 30°C - 20°F	220	200	185	170	155	140	PTO MAG	
- 20°C - 4°F	210	195	180	165	150	135	PTO MAG	
- 10°C 14°F	205	190	175	160	145	130	PTO MAG	
0°C 32°F	200	185	170	155	140	125	PTO MAG	
10°C 50°F	195	180	165	150	135	120	PTO MAG	
20°C 70°F	195	180	165	150	135	120	PTO MAG	

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

Skandic 600 WT (LC)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Red/Red 414 689 800	←	←	Yellow/Red 414 993 000	←	←					
Ramp		417 005 290	←	←	417 005 291	←	←					
Calibration screw position		3	4	5	2	3	4					
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←					
Engagement RPM ± 100		3600	←	←	←	←	←					
Maximum RPM ± 100		7000	←	←	←	←	←					

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Blue ACS 3-188 (417 119 100)	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	40°	←	←	←	←	←	←	←	←	←	←

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
417 005 291	Ramp	3
414 993 000	Spring (Yellow/Red)	1
404 161 979	Main jet 215	2
404 100 200	Main jet 240	2
404 100 600	Main jet 260	2
404 101 100	Main jet 290	2
404 107 800	Main jet 310	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		330	310	290	260	240	215	PTO MAG					
Jet needle		6FL14	←	←	←	←	←	←	←	←	←	←	2
Needle position		5	←	←	4	←	←	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	1.0	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-9 (480)	←	←	←	←	←	←	←	←	←	←	2
Float level		mm	18.1	←	←	←	←	←	←	←	←	←	—
Idle		RPM ± 200	1500	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position		mm	1.5	1.5	1.6	1.8	1.9	2.0	←	←	←	←	—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Temperature													
- 40°C - 40°F		350	330	300	280	250	230	PTO MAG					
- 30°C - 20°F		340	320	290	270	250	220	PTO MAG					
- 20°C - 4°F		330	310	290	260	240	215	PTO MAG					
- 10°C 14°F		320	300	280	250	230	210	PTO MAG					
0°C 32°F		310	290	270	240	220	200	PTO MAG					
10°C 50°F		300	280	260	230	210	190	PTO MAG					
20°C 70°F		290	270	250	220	205	185	PTO MAG					

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

Skandic 500 F (SWT)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching	Spring	Yellow/Orange 414 689 700	←	←	←	←	Blue/Yellow 414 689 500
	Ramp	417 005 290	←	←	←	←	←
	Calibration screw position	2	3	4	5	6	3
	Pin	417 004 309 (Hollow)	←	←	←	←	←
	Engagement RPM ± 100	3000	←	←	←	←	3300
	Maximum RPM ± 100	6800	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching	Spring	Blue ACS 3-188 (417 119 100)	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←
	Cam angle	° (degrees)	40°	←	←	←	←

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 689 500	Spring (Blue/Yellow)	1
404 130 400	Main jet 135	2
404 130 500	Main jet 145	2
404 128 700	Main jet 155	2
404 119 300	Main jet 165	2
404 119 200	Main jet 175	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Calibration	Main jet	185	175	165	155	145	135	PTO MAG	
	Jet needle	6DH2	←	←	←	←	←	2	
	Needle position	3	←	←	2	←	←	—	
	Slide cut-away	2.5	←	←	←	←	←	2	
	Pilot jet	40	←	←	←	←	←	2	
	Mixture screw	2.0	←	←	2.5	←	←	—	
	Valve seat	1.5	←	←	←	←	←	—	
	Needle jet	P-1 (159)	←	←	←	←	←	2	
	Float level	mm	23.9	←	←	←	←	←	—
	Idle	RPM ± 200	1650	←	←	←	←	←	—
	Idle throttle valve position	mm	1.5	1.5	1.6	1.7	1.8	1.9	—

MAIN JET CHART

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

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

Skandic 500 F (WT)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Yellow/Orange 414 689 700	←	←	←	←	←	←	←	←	←	←
	Ramp	417 005 290	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	4	5	6	2	3	4					
	Pin	417 004 309 (Hollow)	←	←	←	←	←	←	←	←	←	←
	Engagement RPM ± 100	3000	←	←	←	←	←	←	←	←	←	←
	Maximum RPM ± 100	6800	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2000 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft				
Clutching	Spring	Blue ACS 3-188 (417 119 100)	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	40°	←	←	←	←	←	←	←	←	←

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 817 700	Spring (Blue/Green)	1
404 130 400	Main jet 135	2
404 130 500	Main jet 145	2
404 128 700	Main jet 155	2
404 119 300	Main jet 165	2
404 119 200	Main jet 175	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft						
Calibration	Main jet	185	175	165	155	145	135	PTO MAG						
	Jet needle	6DH2	←	←	←	←	←	←	←	←	←	←	2	
	Needle position	3	←	←	←	←	←	←	←	←	←	←	—	
	Slide cut-away	2.5	←	←	←	←	←	←	←	←	←	←	2	
	Pilot jet	40	←	←	←	←	←	←	←	←	←	←	2	
	Mixture screw	2.0	←	←	←	←	←	←	←	←	←	←	—	
	Valve seat	1.5	←	←	←	←	←	←	←	←	←	←	—	
	Needle jet	P-1	←	←	←	←	←	←	←	←	←	←	2	
	Float level	mm	23.9	←	←	←	←	←	←	←	←	←	—	
	Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	←	—	
	Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—					

MAIN JET CHART

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

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

Skandic 440 LT (Fan)

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Silver M140032	←	←	←	←	←	←	←	←	←	←
Ramp		M140030	←	←	←	←	←	←	←	←	←	←
Calibration screw position		N.A.	—	—	—	—	—	—	—	—	—	—
Pin		N.A.	—	—	—	—	—	—	—	—	—	—
Engagement RPM ± 100		3200	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		6900	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft	
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft				
Clutching												
Spring		Yellow 415 092 800	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	40°	←	←	←	←	←	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
M207758A	Spring (Purple)	1
404 123 900	Main jet 120	2
404 124 900	Main jet 130	2
404 130 500	Main jet 145	2
404 128 700	Main jet 155	2
404 123 800	Main jet 170	2

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		180	170	155	145	130	120	PTO MAG					
Jet needle		6DGY12	←	←	←	←	←	←	←	←	←	←	2
Needle position		3	←	2	←	←	←	←	←	←	←	←	—
Slide cut-away		3.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.0	1.25	←	1.5	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		(159) 0-0	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.4	1.6	1.8	1.8	2.0	2.0						—

MAIN JET CHART

Altitude		Sea Level	600 m 2000 ft		1200 m 4000 ft		1800 m 6000 ft		2400 m 8000 ft		3000 m 10000 ft		Qty
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
- 40°C - 40°F		190	180	165	155	140	130						1
- 30°C - 20°F		185	175	160	150	135	125						1
- 20°C - 4°F		180	170	155	145	130	120						1
- 10°C 14°F		175	165	150	140	125	115						1
0°C 32°F		170	160	145	135	120	110						1
10°C 50°F		165	155	140	130	120	110						1
20°C 70°F		165	155	140	130	120	100						1

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

Tundra Skandic 277 (Fan)

DRIVE PULLEY

Altitude		Sea Level	Altitude				
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Turquoise 417 115 900	←	Yellow/Green on Violet 417 118 500	←	←	←
Block (Bombardier Lite)		417 114 300	←	←	←	←	←
Weight (Bombardier Lite)		3 x 417 114 400	2 x ←	3 x ←	2 x ←	1 x ←	—
Capsule (Bombardier Lite)		1 x 417 114 500	←	←	Qty 2 x ←	2 x ←	3 x ←
Engagement RPM ± 100		3000	←	3500	←	←	←
Maximum RPM ± 100		6900	←	←	←	←	←

DRIVEN PULLEY

Altitude		Sea Level	Altitude				
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Yellow 415 094 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3 0.0	←	←	←	←	←
Cam angle	° (degrees)	37.8° 417 126 350	←	←	←	←	←

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 118 500	Spring (Yellow/Green on Violet)	1
404 126 600	Main jet 140	1
404 120 900	Main jet 150	1
404 118 200	Main jet 160	1
404 119 500	Main jet 185	1
404 119 400	Main jet 195	1

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude		Sea Level	Altitude					Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Calibration								
Main jet		200	195	185	160	150	140	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	←	←	←	1
Mixture screw		1.00	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		0-8 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Altitude		Sea Level	Altitude					Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Temperature								
- 40°C - 40°F		220	210	200	180	170	160	1
- 30°C - 20°F		210	200	190	170	160	150	1
- 20°C - 4°F		200	195	185	160	150	140	1
- 10°C 14°F		195	190	180	155	145	135	1
0°C 32°F		190	185	175	150	140	130	1
10°C 50°F		180	175	165	140	130	120	1
20°C 70°F		175	170	160	135	125	115	1

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

Please route to :

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



SNOWMOBILES



SERVICE
Bulletin

No. **2002-6**

Date: October 2, 2001

**SUBJECT: DPM Manifold Leak
Testing Procedure**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
From 1999	All DPM equipped models	All	All

The following leak test procedure should be performed if and when a DPM manifold is suspected to be faulty, in other words, if it's not compensating as altitude increases.

An indicator that the DPM manifold is not compensating correctly could be a sudden decrease in engine performance as well as an increase in fuel consumption (rich running condition) during use in high altitudes.

Visual Inspection

With DPM manifold removed from vehicle and all hoses disconnected from DPM manifold, inspect for any broken fittings or missing dust caps. If any parts are broken, replace DPM manifold and **do not proceed** with leak test procedure. If any parts are missing, order necessary parts as listed in tables further in this document, replace, **then perform leak test procedure**.

If there is no apparent breakage or missing parts on DPM manifold, perform the following leak test procedure.

PROCEDURE

Required Items

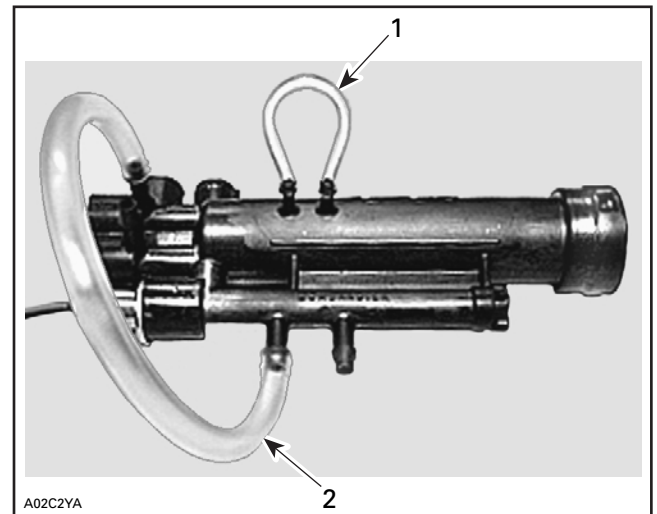
The following items will be required:

- Water column with at least 350 mm (13-3/4 in) in height.
- Engine leak test kit (P/N 861 749 100).
- 4.8 mm (3/16 in) "T" fitting.
- 3.5 mm (9/64 in) ID x 100 mm (4 in) hose.
- 6 mm (15/64 in) ID x 300 mm (12 in) hose.

DPM Manifold Preparation

Connect both carburetor bowl outlets on the distribution gallery using the 3.5 mm (9/64 in) ID x 100 mm (4 in) hose. The hose will have a "U" shape once connected.

Connect one of the vacuum collector ports from carburetor using one end of the 6 mm (15/64 in) ID x 300 mm (12 in) hose and connect the other end to the atmospheric pressure inlet port. Refer to following photo.

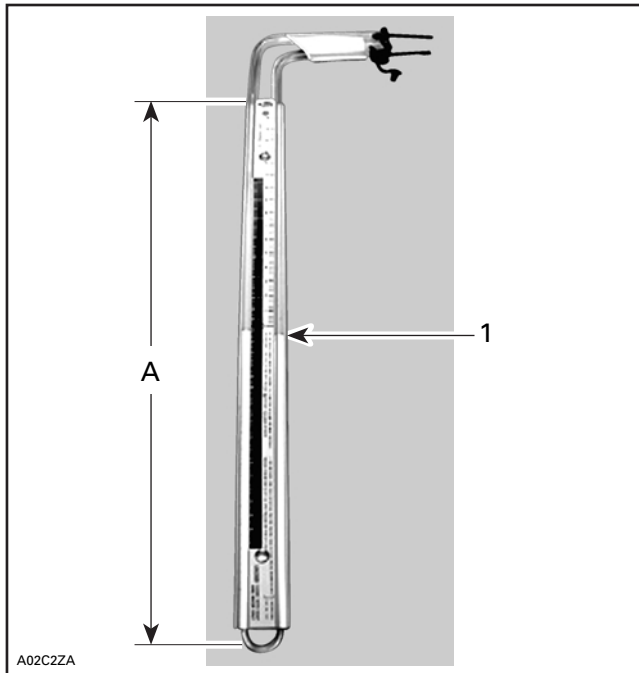


1. 3.5 mm (9/64 in) ID hose
2. 6.0 mm (15/64 in) ID hose

Water Column Preparation

Mount water column vertically and secure it to a wall or workbench.

Fill water column to center line (at least 175 mm (6-7/8 in)) in height. Refer to following photo.



1. Center line at 175 mm (6-7/8 in)
- A. 350 mm (13-3/4 in)

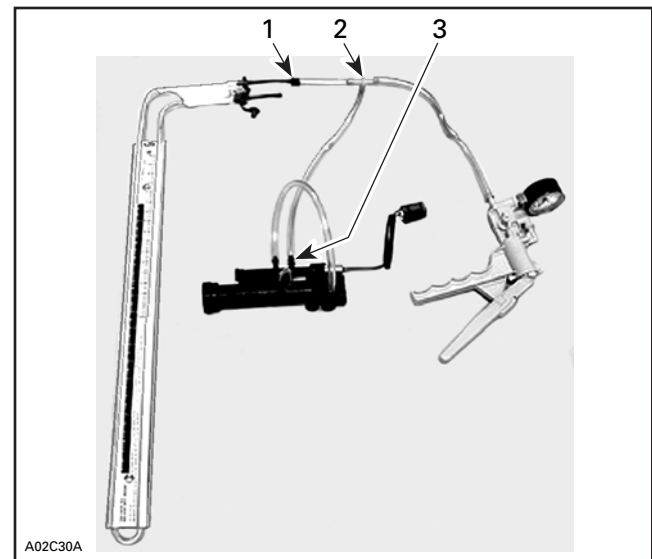
Connecting the Pump, DPM Manifold and Water Column

Connect one of the supplied hoses in the engine leak test kit to vacuum collector port fitting on DPM manifold.

Connect other end to bottom of the 4.8 mm (3/16 in) "T" fitting.

Using another small hose from kit, connect a small cone-type fitting to one end and the other end to the 4.8 mm (3/16 in) "T" fitting.

Take another length of hose and connect pump from kit to the 4.8 mm (3/16 in) "T" fitting. Refer to following photo.



1. Cone fitting
2. "T" fitting
3. Collector port fitting

Insert cone-type fitting into one of the water column tubes, leave the other tube at atmospheric pressure.

Testing

Set pump to "vacuum".

Apply negative pressure (vacuum) until the extremities of the water in the tube attain a difference of 350 mm (13-3/4 in).

Stop pumping and allow water levels to stabilize in tube.

Analysis

If water level remains unchanged, the DPM manifold **is not** defective.

If water level drops slowly to return to an even level in **more than** 10 seconds, the DPM manifold **is not** defective.

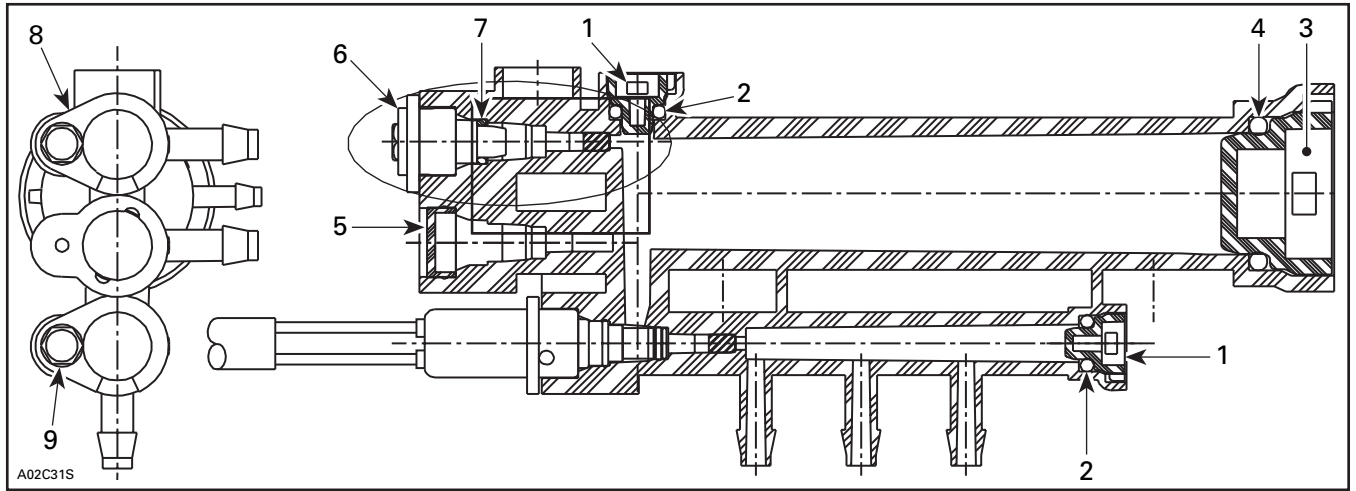
If water level drops to an even level **in less than** 10 seconds, the DPM manifold **is** defective. Replace DPM manifold parts (refer to tables below) and re-test. If test fails again, replace DPM manifold.

If you are unable to attain any amount of vacuum (water level increases and decreases immediately in tube), check your set-up and re-do the test.

If you still cannot attain any vacuum, DPM manifold **is** defective. Replace DPM manifold.

DPM Manifold Replacement Parts

Refer to following illustration for references.



The following tables give the required components part numbers according to DPM manifold part numbers for a specific model year.

1999 Models

DESCRIPTION	PART NUMBER	QTY	MANIFOLD P/N
Cap	512 058 921 (no. 1 in illustration)	2	512 059 194 512 059 571
O-ring	512 058 925 (no. 2 in illustration)	2	512 059 194 512 059 571
Cap	512 058 949 (no. 3 in illustration)	1	512 059 194 512 059 571
O-ring	512 058 950 (no. 4 in illustration)	1	512 059 194 512 059 571
Cap①	512 058 982 (no. 5 in illustration)	2	512 059 194

2000 Models

DESCRIPTION	PART NUMBER	QTY	MANIFOLD P/N
Cap	512 058 921 (no. 1 in illustration)	2	512 059 114 512 059 160 512 059 193 512 059 570 512 059 572 512 059 573
O-ring	512 058 925 (no. 2 in illustration)	2	512 059 114 512 059 160 512 059 193 512 059 570 512 059 572 512 059 573
Cap	512 058 949 (no. 3 in illustration)	1	512 059 114 512 059 160 512 059 193 512 059 570 512 059 572 512 059 573
O-ring	512 058 950 (no. 4 in illustration)	1	512 059 114 512 059 160 512 059 193 512 059 570 512 059 572 512 059 573
Cap①.....512 059 982 (no. 5 in illustration)		1	512 059 570 512 059 573
		2	512 059 160
		3	512 059 114 512 059 193
Cap	512 059 557 (no. 6 in illustration)	1	512 059 570 512 059 572 512 059 573
O-ring	512 059 558 (no. 7 in illustration)	1	512 059 570 512 059 572 512 059 573

2001 Models

DESCRIPTION	PART NUMBER	QTY	MANIFOLD P/N
Cap	512 058 921 (no. 1 in illustration)	2	512 059 323 512 059 327 512 059 342 512 059 408 512 059 417 512 059 566 512 059 567 512 059 568 512 059 569
O-ring	512 058 925 (no. 2 in illustration)	2	512 059 323 512 059 327 512 059 342 512 059 408 512 059 417 512 059 566 512 059 567 512 059 568 512 059 569
Cap	512 058 949 (no. 3 in illustration)	1	512 059 323 512 059 327 512 059 342 512 059 408 512 059 417 512 059 566 512 059 567 512 059 568 512 059 569
O-ring	512 058 950 (no. 4 in illustration)	1	512 059 323 512 059 327 512 059 342 512 059 408 512 059 417 512 059 566 512 059 567 512 059 568 512 059 569
Cap①.....	512 058 982 (no. 5 in illustration)	1	512 059 566 512 059 567 512 059 568 512 059 569
		3	512 059 323 512 059 327 512 059 342 512 059 408 512 059 417
Cap	512 059 557 (no. 6 in illustration)	1	512 059 566 512 059 567 512 059 568 512 059 569
O-ring	512 059 558 (no. 7 in illustration)	1	512 059 566 512 059 567 512 059 568 512 059 569

2002 Models

DESCRIPTION	PART NUMBER	QTY	MANIFOLD P/N
Cap	512 058 921 (no. 1 in illustration)	2	512 059 496 512 059 497
O-ring	512 058 925 (no. 2 in illustration)	2	512 059 496 512 059 497
Cap	512 058 949 (no. 3 in illustration)	1	512 059 496 512 059 497
O-ring	512 058 950 (no. 4 in illustration)	1	512 059 496 512 059 497
Cap①	512 058 982 (no. 5 in illustration)	1	512 059 496 512 059 497
Cap	512 059 557 (no. 6 in illustration)	1	512 059 496 512 059 497
O-ring	512 059 558 (no. 7 in illustration)	1	512 059 496 512 059 497
Lock Clip	415 061 600 (no. 8 in illustration)	1	512 059 496 512 059 497
Screw②	241 140 060 (no. 9 in illustration)	1	512 059 496 512 059 497

① Black Max[†] glue (P/N 413 408 300) is required for the upper cap only.

② Torque from 1.2 to 1.5 N•m (11 to 13 lbf•in).

Please review this procedure with all involved personnel.

[†] Black Max is a registered trademark of Loctite Corporation

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No. **2002-7**

Date: October 24, 2001

SUBJECT: Paint Codes

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All	All	All

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

It is divided in 3 sections:

- 2002 Ski-Doo paint codes.
- List of all Ski-Doo paint codes and corresponding B.A.S.F., P.P.G. and spray can equivalents.
- List of new paint code mixes.

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

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

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

2002 SKI-DOO PAINT CODES

Description	Model Number	Hood Paint Code	Frame Paint Code	Cylinder Head/Cover Paint Code	Suspension Component Paint Code		
					Wheel	Swing Arm	Spring
MACH Z <i>Tech Plus/Sport</i> BLACK	1876/1877/ 1878/1879	B-160	AL	B-205R	B-190	B-211	B-190
MX Z 800/700/600 X 2-TONE	1880/1881/1886/ 1887/2125/2126/ 2166/2167/2172/ 2173/2178/2179/ 2184/2185	B-160 B-190	AL	B-205R	B-190	B-211	B-190
MX Z 800/700/600 <i>X/Adrenaline/Sport/Trail/</i> <i>Renegade</i> BLACK	1882/1883/1888/ 1889/1894/1895/ 1900/1901/1906/ 1907/1918/1919/ 1922/1923/1926/ 1927/1934/1935/ 1938/1939/1942/ 1943/1993/1994/ 1997/1998/2005/ 2006/2106/2107/ 2110/2111/2114/ 2115/2168/2169/ 2174/2175/2180/ 2181/2186/2187	B-160	AL	B-205R	B-190	B-211	B-190
MX Z 800/700/600 <i>X/Adrenaline /Renegade</i> RED	1884/1885/1890/ 1891/1896/1897/ 1902/1903/1908/ 1909/1996/1999/ 2000/2007/2008/ 2134/2135/2143/ 2170/2171/2176/ 2177/2182/2183/ 2188/2189	B-215	AL	B-205R	B-190	B-211	B-190
MX Z 700 <i>Adrenaline (Heritage Edition)</i> <i>Adrenaline (Olympic Edition)</i> <i>Renegade (Olympic Edition)</i>	2206 2207 2157	B-190 B-228	AL	B-205R	B-190	B-211	B-190
MX Z 800/700/600 <i>Trail/Adrenaline/Sport</i> YELLOW	1892/1893/1898/ 1899/1904/1905/ 1916/1917/1920/ 1921/1924/1925/ 1932/1933/1936/ 1937/1940/1941/ 2104/2105/2108/ 2109/2112/2113	B-190	AL	B-205R	B-190	B-211	B-190
MX Z 500 <i>Trail/Sport</i> YELLOW	1928/1929/1944/ 1945/2116/2117/ 2127/2128	B-190	AL	B-205R	B-190	B-211	B-190
MX Z 500 <i>Trail/Sport</i> BLACK	1930/1931/1946/ 1947/2118/2119	B-160	AL	B-205R	B-190	B-211	B-190
MX Zx 440 LC <i>Racing</i> YELLOW	1948/2120/2129/ 2219	B-190	AL	B-205R	B-190	B-211	B-190
MX Z 500 F/380 F <i>Fan</i> YELLOW	1949/1950/1953/ 1954/2130/2131	B-190	AL	N.A.	B-190	B-211	B-190

2002 SKI-DOO PAINT CODES (continued)

Description	Model Number	Hood Paint Code	Frame Paint Code	Cylinder Head/Cover Paint Code	Suspension Component Paint Code		
					Wheel	Swing Arm	Spring
MX Z 500 F/380 F <i>Fan</i> BLACK	1951/1952/1955/ 1956	B-160	AL	N.A.	B-190	B-211	B-190
SUMMIT 800 <i>X/HM X</i> 2-TONE	1957/1958/1967/ 1968/2132/2190/ 2191/2196/2197	B-160 B-190	AL	B-205R	B-190	B-211	B-190
SUMMIT 800 <i>X/HM X</i> BLUE	1959/1960/1969/ 1970/2192/2193/ 2198/2199	B-225	AL	B-205R	B-190	B-211	B-190
SUMMIT 800 <i>X/HM X/HM</i> RED	1961/1962/1965/ 1966/1971/1972/ 2194/2195/2200/ 2205/2217/2218	B-215	AL	B-205R	B-190	B-211	B-190
SUMMIT 800 <i>HM</i> BLACK	1936/1964/2215/ 2216	B-160	AL	B-205R	B-190	B-211	B-190
SUMMIT 800/700/600 <i>Sport</i> BLACK	1973/1974/1977/ 1978/1981/1982/ 1985/1986/1989/ 1990/2121/2122/ 2133	B-160	AL	B-205R	B-190	B-211	B-190
SUMMIT 800/700/600 <i>Sport</i> RED	1975/1976/1979/ 1980/1983/1984/ 1987/1988/1991/ 1992/2123/2124	B-215	AL	B-205R	B-190	B-211	B-190
SUMMIT 500 F <i>Fan</i> BLACK	2009/2010	B-160	AL	B-205R	B-190	B-211	B-190
SUMMIT 700 <i>Sport (Heritage Edition)</i> <i>Sport (Olympic Edition)</i> <i>Renegade</i> <i>(Olympic Colors)</i>	2208 2209 2157	B-190 B-228	AL	B-205R	B-190	B-211	B-190
LEGEND 800/600 <i>SE</i> 2-TONE	2011/2012/2015/ 2016/2136	B-211 B-225	AI	B-205R	B-211	B-211	B-211
LEGEND 800/600 <i>SE</i> BLACK	2013/2014/2017/ 2018	B-160	AI	B-205R	B-211	B-211	B-211
LEGEND 700/600 <i>GS</i> BLACK	2021/2022/2025/ 2026	B-160	AI	B-205R	B-211	B-211	B-211
LEGEND 700/600 <i>GS</i> BLUE	2019/2020/2023/ 2024	B-225	AI	B-205R	B-211	B-211	B-211
LEGEND 700/600/500 <i>Sport</i> BLACK	2029/2030/2033/ 2034/2037/2038	B-160	AI	B-205R	B-211	B-211	B-211
LEGEND 700/600/500 <i>Sport</i> BLUE	2027/2028/2031/ 2032/2035/2036	B-225	AI	B-205R	B-211	B-211	B-211
LEGEND 500 F/380 F <i>Fan</i> BLACK	2041/2042/2045/ 2046	B-160	AI	B-205R	B-211	B-211	B-211
LEGEND 500 F/380 F <i>Fan</i> BLUE	2039/2040/2043/ 2044	B-225	AI	B-205R	B-211	B-211	B-211

2002 SKI-DOO PAINT CODES (continued)

Description	Model Number	Hood Paint Code	Frame Paint Code	Cylinder Head/Cover Paint Code	Suspension Component Paint Code		
					Wheel	Swing Arm	Spring
GRAND TOURING 800/600 SE BLACK	2047/2048/2049/ 2050/2051/2052/ 2137/2138/2148/ 2149	B-160	B-160	B-250R	Chrome Cap	B-211	B-211
GRAND TOURING 700/600 GS FULL MOON	2073/2074/2077/ 2078	B-211	B-211	B-250R	B-211	B-211	B-211
GRAND TOURING 700/600 GS BLACK	2071/2072/2075/ 2076	B-160	B-211	B-250R	B-211	B-211	B-211
GRAND TOURING 700 GS (Olympic Colors)	2159	B-190 B-228	B-211	B-250R	B-190	B-211	B-190
GRAND TOURING 700/600/500 Sport BLACK	2079/2080/2083/ 2084/2087/2088	B-160	B-211	B-250R	B-211	B-211	B-211
GRAND TOURING 700/600/500 Sport FULL MOON	2081/2082/2085/ 2086/2089/2090/ 2140	B-211	B-211	B-250R	B-211	B-211	B-211
GRAND TOURING 500 F/380 F Fan BLACK	2091/2092/2093/ 2094/2141/2142	B-160	AL	B-250R	B-211	B-211	B-211
SKANDIC 500/600 WT LC YELLOW	2095/2096	B-190	B-160	B-205R	B-190	N.A.	N.A.
SKANDIC 500 F SWT YELLOW	2097/2098/2099/ 2100	B-190	B-160	N.A.	B-190	N.A.	N.A.
SKANDIC 440 LT YELLOW	2101/2102	B-190	B-160	N.A.	B-190	N.A.	N.A.
SKANDIC 600 WT LC (Olympic)	2160	B-228	B-160	B-205R	B-190	N.A.	N.A.
MINI Z	2103	B-190	B-190	N.A.	B-190	N.A.	N.A.
TUNDRA R	3278	B-190	B-160	N.A.	B-160	N.A.	N.A.

AL: Aluminum (no paint).

N.A.: Not Applicable.

CORRESPONDING PAINT CODES

BOMBARDIER		B.A.S.F. R-M	PPG	SPRAY CAN
B-160	DEEP BLACK	RM 85366	DCC 95066 DBC 9554	413 409 100
B-190	YELLOW 2000 (HOOD)	89849F	DBU 88272	413 413 000
B-205R	DIAMOND	Refer to paint code mix below		
B-206	ALLOY GREY	Refer to paint code mix below		
B-211	FULL MOON	94880	DBC 37415	N.A.
B-214	NEVADA BEIGE	Refer to paint code mix below		
B-215	METALLIC RADICAL RED	Refer to paint code mix below		
B-217	SOLID RADICAL RED	97354	DCC 74927	N.A.
B-225	VOLTAGE BLUE METALLIC	Refer to paint code mix below		
B-228	SATURN ORANGE	Refer to paint code mix below		

N.A.: Not Available.

NEW SKI-DOO PAINT CODE MIX

B-206	ALLOY GREY		①
RM			
BC	190	=	907.3
BC	605 LS	=	962.3
BC	200	=	994.2
BC	510 LS	=	1010.5
BC	402 LS	=	1019.9

B205R	DIAMOND		①
BASF			
	M2	=	157.4
	M99/12	=	593.4
	M99/10	=	807.9
	A125	=	820.8
	A926	=	833.8
	A098	=	845.9
	A5563	=	857.2
	M1	=	865.0

B-215	METALLIC RADICAL RED		①
GLAZURIT 55 BASF			
	352-91	=	80.0
	A352	=	579.2
	M800	=	640.0
	A324	=	800.0
	M1	=	840.0
	M363	=	1000.0

B-214	NEVADA BEIGE		①
GLAZURIT 55 BASF			
	UR-50	=	83.8
	BC-90	=	580.3
	BC-605	=	818.9
	BC-805	=	899.3
	BC-200	=	928.0
	BC-250	=	949.2
	BC-655	=	957.2

B-225	VOLTAGE BLUE METALLIC		①
GLAZURIT 55 BASF			
	352-91	=	165.9
	M-506	=	403.2
	A-531	=	555.9
	M-401	=	653.7
	A-552	=	731.4
	A-555	=	785.3
	A-125	=	837.5
	M-1	=	883.1

B-228	SATURN ORANGE		①
RM			
	UR-50	=	73.2
	BC-810	=	498.9
	BC-670	=	697.7
	BC-190	=	756.8
	BC-710	=	804.7

① Total mixed quantity does not equal 1 liter.

Please route to :

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



No. **2002-8**

Date: October 26, 2001

SUBJECT: Spring Reference According to Load

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All	All	All

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

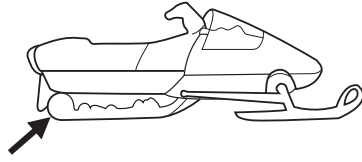
NOTE: The A.C.M. (Accelerator and Control Modulator) nut must be fully tightened when performing suspension adjustments (see *Operator's Guide*). Following table gives a quick access to proper page.

MODEL NAME	PAGE
Grand Touring GS (Can/U.S.)	10
Grand Touring SE (Can/U.S.)	8
Grand Touring SE (Europe)	9
Grand Touring Sport (Can/U.S.)	10
Grand Touring Sport (Europe)	11
Legend GS (Can/U.S.)	16
Legend SE (Can/U.S.)	16
Legend SE (Europe)	18
Legend Sport (Can/U.S.)	16
Legend 380 Fan (Can/U.S.)	5
Legend 500 Fan (Can/U.S.)	5
Mach Z Standard (Can/U.S.)	2-3
Mach Z Tech Plus (Can/U.S.)	2-3
MX Z Adrenaline (Can/U.S.)	4
MX Z Renegade (Can/U.S.)	16
MX Z Renegade (Europe)	17
MX Z Sport (Can/U.S.)	4
MX Z Sport (Europe)	14
MX Z Trail (Can/U.S.)	16

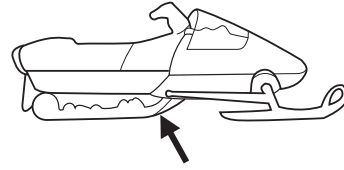
MODEL NAME	PAGE
MX Zx (Can/U.S.)	4
MX Zx (Europe)	15
MX Z 380 Fan (Can/U.S.)	5
MX Z 380 Fan (Europe)	6
MX Z 500 Fan (Can/U.S.)	5
MX Z 500 Fan (Europe)	6
Summit HM Sport (Can/U.S.)	7
Summit HM X (Can/U.S.)	7
Summit Sport (Can/U.S.)/(Europe)	7
Summit X (Can/U.S.)	7
Summit X (Europe)	12
Summit 500 Fan (Can/U.S.)	13
Touring 380 Fan (Can/U.S.)	11
Touring 380 Fan (Europe)	12
Touring 500 Fan (Can/U.S.)	11
Touring 500 Fan (Europe)	12

MACH Z STD, MACH Z TECH PLUS (CAN, U.S.)

REAR SPRING

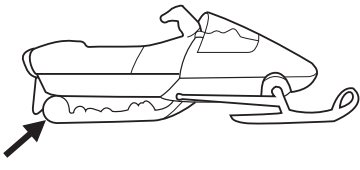
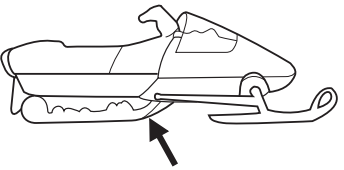


CENTER SPRING



	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N (SHORT)	COLOR CODE (COLOR)	P/N (LONG)	CAM POSITION	COLOR CODE (COLOR)
STANDARD									
Up to 150 lb	503 189 615	503 189 616	1	RD/YL	415 090 500	YL/BL/YL (BLACK)	415 090 600	1	RD/BL/YL (BLACK)
150 lb to 180 lb	503 189 615	503 189 616	2	RD/YL	415 090 500	YL/BL/YL (BLACK)	415 090 600	2	RD/BL/YL (BLACK)
180 lb to 210 lb	503 189 615	503 189 616	3	RD/YL	415 090 500	YL/BL/YL (BLACK)	415 090 600	3	RD/BL/YL (BLACK)
210 lb to 250 lb	503 189 615	503 189 616	4	RD/YL	415 090 500	YL/BL/YL (BLACK)	415 090 600	5	RD/BL/YL (BLACK)
250 lb to 265 lb	503 189 615	503 189 616	4	RD/YL	415 090 500	YL/BL/YL (BLACK)	415 090 600	6	RD/BL/YL (BLACK)
265 lb to 280 lb	503 189 615	503 189 616	4	RD/YL	415 090 500	YL/BL/YL (BLACK)	415 090 600	7	RD/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									

MACH Z STD, MACH Z TECH PLUS (CAN, U.S.) (continued)

REAR SPRING				CENTER SPRING			
							
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR

OPTION 1

Up to 200 lb	503 189 522	503 189 524	1	GN/GN/YL	415 103 600	1	GN/GN/YL	BLACK
200 lb to 230 lb	503 189 522	503 189 524	2	GN/GN/YL	415 103 600	2	GN/GN/YL	BLACK
230 lb to 260 lb	503 189 522	503 189 524	3	GN/GN/YL	415 103 600	3	GN/GN/YL	BLACK
260 lb to 300 lb	503 189 522	503 189 524	4	GN/GN/YL	415 103 600	5	GN/GN/YL	BLACK
300 lb to 315 lb	503 189 522	503 189 524	4	GN/GN/YL	415 103 600	6	GN/GN/YL	BLACK
315 lb to 330 lb	503 189 522	503 189 524	4	GN/GN/YL	415 103 600	7	GN/GN/YL	BLACK

OPTION 2

Up to 250 lb	503 189 674	503 189 675	1	SI/YL/YL	415 103 600	1	GN/GN/YL	BLACK
250 lb to 280 lb	503 189 674	503 189 675	2	SI/YL/YL	415 103 600	2	GN/GN/YL	BLACK
280 lb to 310 lb	503 189 674	503 189 675	3	SI/YL/YL	415 103 600	3	GN/GN/YL	BLACK
310 lb to 350 lb	503 189 674	503 189 675	4	SI/YL/YL	415 103 600	5	GN/GN/YL	BLACK
350 lb to 365 lb	503 189 674	503 189 675	4	SI/YL/YL	415 103 600	6	GN/GN/YL	BLACK
365 lb to 380 lb	503 189 674	503 189 675	4	SI/YL/YL	415 103 600	7	GN/GN/YL	BLACK

OPTION 3

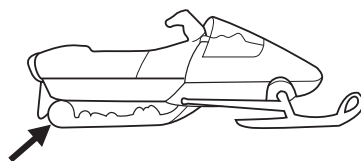
Up to 300 lb	503 189 681	503 189 682	1	SI/SI	415 103 600	1	GN/GN/YL	BLACK
300 lb to 330 lb	503 189 681	503 189 682	2	SI/SI	415 103 600	2	GN/GN/YL	BLACK
330 lb to 360 lb	503 189 681	503 189 682	3	SI/SI	415 103 600	3	GN/GN/YL	BLACK
360 lb to 400 lb	503 189 681	503 189 682	4	SI/SI	415 103 600	5	GN/GN/YL	BLACK
400 lb to 415 lb	503 189 681	503 189 682	4	SI/SI	415 103 600	6	GN/GN/YL	BLACK
415 lb to 430 lb	503 189 681	503 189 682	4	SI/SI	415 103 600	7	GN/GN/YL	BLACK

SPRING COLOR CODES

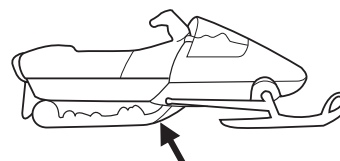
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

MX Z ADRENALINE, SPORT, X (CAN, U.S.)

REAR SPRING



CENTER SPRING

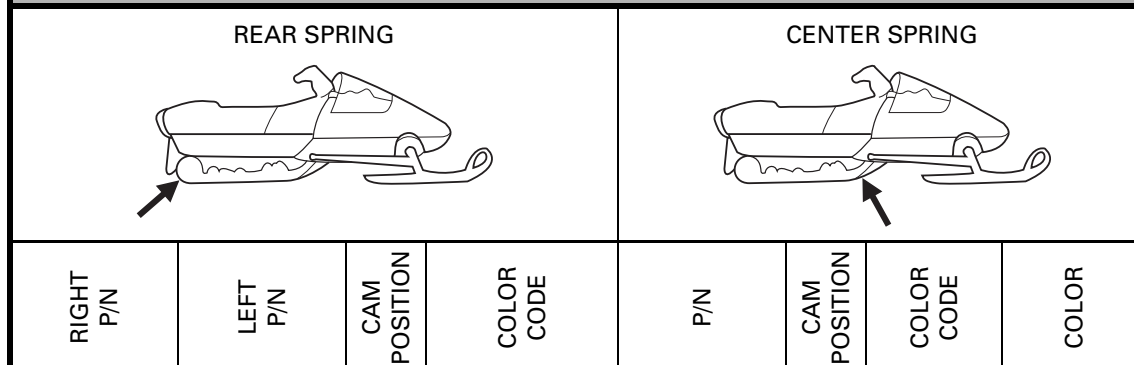


RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	
STANDARD								
Up to 170 lb	503 189 902	503 189 904	1	RD/RD/YL	503 189 812	1	BL/GN/YL	BLACK
170 lb to 200 lb	503 189 902	503 189 904	2	RD/RD/YL	503 189 812	2	BL/GN/YL	BLACK
200 lb to 230 lb	503 189 902	503 189 904	3	RD/RD/YL	503 189 812	3	BL/GN/YL	BLACK
230 lb to 260 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 812	5	BL/GN/YL	BLACK
260 lb to 270 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 812	6	BL/GN/YL	BLACK
270 lb to 280 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 812	7	BL/GN/YL	BLACK
OPTION 1								
Up to 220 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 325	1	YL/SI/YL	BLACK
220 lb to 250 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 325	2	YL/SI/YL	BLACK
250 lb to 280 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 325	3	YL/SI/YL	BLACK
280 lb to 310 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 325	5	YL/SI/YL	BLACK
310 lb to 320 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 325	6	YL/SI/YL	BLACK
320 lb to 330 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 325	7	YL/SI/YL	BLACK
OPTION 2								
Up to 270 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 325	1	YL/SI/YL	BLACK
270 lb to 300 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 325	2	YL/SI/YL	BLACK
300 lb to 330 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 325	3	YL/SI/YL	BLACK
330 lb to 360 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	5	YL/SI/YL	BLACK
360 lb to 370 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	6	YL/SI/YL	BLACK
370 lb to 380 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	7	YL/SI/YL	BLACK
OPTION 3								
Up to 320 lb	503 189 327	503 189 329	1	SI	503 189 325	1	YL/SI/YL	BLACK
320 lb to 350 lb	503 189 327	503 189 329	2	SI	503 189 325	2	YL/SI/YL	BLACK
350 lb to 380 lb	503 189 327	503 189 329	3	SI	503 189 325	3	YL/SI/YL	BLACK
380 lb to 410 lb	503 189 327	503 189 329	4	SI	503 189 325	5	YL/SI/YL	BLACK
410 lb to 420 lb	503 189 327	503 189 329	4	SI	503 189 325	6	YL/SI/YL	BLACK
420 lb to 430 lb	503 189 327	503 189 329	4	SI	503 189 325	7	YL/SI/YL	BLACK
OPTION 4								
Up to 370 lb	503 189 681	503 189 682	1	SI/SI	503 189 325	1	YL/SI/YL	BLACK
370 lb to 400 lb	503 189 681	503 189 682	2	SI/SI	503 189 325	2	YL/SI/YL	BLACK
400 lb to 430 lb	503 189 681	503 189 682	3	SI/SI	503 189 325	3	YL/SI/YL	BLACK
430 lb to 460 lb	503 189 681	503 189 682	4	SI/SI	503 189 325	5	YL/SI/YL	BLACK
460 lb to 475 lb	503 189 681	503 189 682	4	SI/SI	503 189 325	6	YL/SI/YL	BLACK
475 lb to 490 lb	503 189 681	503 189 682	4	SI/SI	503 189 325	7	YL/SI/YL	BLACK

SPRING COLOR CODES

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

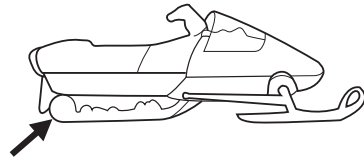
**LEGEND 500 FAN / 380 FAN (CAN, U.S.)
MX Z 500 FAN / 380 FAN (CAN, U.S.)**



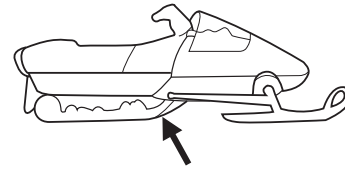
STANDARD								
Up to 125 lb	503 189 592	503 189 594	1	GD/RD	415 070 500	N.A.	BL/YL/YL	BLACK
125 lb to 150 lb	503 189 592	503 189 594	2	GD/RD	415 070 500	N.A.	BL/YL/YL	BLACK
150 lb to 175 lb	503 189 592	503 189 594	3	GD/RD	415 070 500	N.A.	BL/YL/YL	BLACK
175 lb to 200 lb	503 189 592	503 189 594	4	GD/RD	415 070 500	N.A.	BL/YL/YL	BLACK
OPTION 1								
Up to 175 lb	503 189 627	503 189 629	1	YL/WH	503 189 325	N.A.	YL/SI/YL	BLACK
175 lb to 200 lb	503 189 627	503 189 629	2	YL/WH	503 189 325	N.A.	YL/SI/YL	BLACK
200 lb to 225 lb	503 189 627	503 189 629	3	YL/WH	503 189 325	N.A.	YL/SI/YL	BLACK
225 lb to 250 lb	503 189 627	503 189 629	4	YL/WH	503 189 325	N.A.	YL/SI/YL	BLACK
OPTION 2								
Up to 225 lb	503 189 902	503 189 904	1	RD/RD/YL	503 189 325	N.A.	YL/SI/YL	BLACK
225 lb to 250 lb	503 189 902	503 189 904	2	RD/RD/YL	503 189 325	N.A.	YL/SI/YL	BLACK
250 lb to 275 lb	503 189 902	503 189 904	3	RD/RD/YL	503 189 325	N.A.	YL/SI/YL	BLACK
275 lb to 300 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 325	N.A.	YL/SI/YL	BLACK
OPTION 3								
Up to 275 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
275 lb to 300 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
300 lb to 325 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
325 lb to 350 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
OPTION 4								
Up to 325 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
325 lb to 350 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
350 lb to 375 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
375 lb to 400 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

MX Z 380 FAN / 500 FAN (EUROPE)

REAR SPRING



CENTER SPRING



RIGHT
P/N

LEFT
P/N

CAM
POSITION

COLOR
CODE

P/N

CAM
POSITION

COLOR
CODE

COLOR

STANDARD

Up to 225 lb	503 189 627	503 189 629	1	YL/WH	503 189 659	N.A.	BL/RD/YL	BLACK
225 lb to 250 lb	503 189 627	503 189 629	2	YL/WH	503 189 659	N.A.	BL/RD/YL	BLACK
250 lb to 275 lb	503 189 627	503 189 629	3	YL/WH	503 189 659	N.A.	BL/RD/YL	BLACK
275 lb to 300 lb	503 189 627	503 189 629	4	YL/WH	503 189 659	N.A.	BL/RD/YL	BLACK

OPTION 1

Up to 275 lb	503 189 902	503 189 904	1	RD/RD/YL	503 189 659	N.A.	BL/RD/YL	BLACK
275 lb to 300 lb	503 189 902	503 189 904	2	RD/RD/YL	503 189 659	N.A.	BL/RD/YL	BLACK
300 lb to 325 lb	503 189 902	503 189 904	3	RD/RD/YL	503 189 659	N.A.	BL/RD/YL	BLACK
325 lb to 350 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 659	N.A.	BL/RD/YL	BLACK

OPTION 2

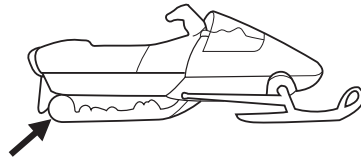
Up to 325 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
325 lb to 350 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
350 lb to 375 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
375 lb to 400 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK

SPRING COLOR CODES

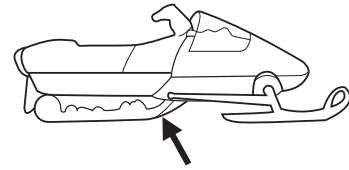
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

SUMMIT X / SPORT / HM X / HM SPORT (CAN, U.S.)

REAR SPRING



CENTER SPRING



RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR
-----------	----------	--------------	------------	-----	--------------	------------	-------

STANDARD

Up to 150 lb	503 189 522	503 189 524	1	GN/GN/YL	415 070 500	1	BL/YL/YL	BLACK
150 lb to 180 lb	503 189 522	503 189 524	2	GN/GN/YL	415 070 500	2	BL/YL/YL	BLACK
180 lb to 210 lb	503 189 522	503 189 524	3	GN/GN/YL	415 070 500	3	BL/YL/YL	BLACK
210 lb to 240 lb	503 189 522	503 189 524	4	GN/GN/YL	415 070 500	4	BL/YL/YL	BLACK
240 lb to 265 lb	503 189 522	503 189 524	4	GN/GN/YL	415 070 500	5	BL/YL/YL	BLACK

OPTION 1

Up to 200 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 325	1	YL/SI/YL	BLACK
200 lb to 230 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 325	2	YL/SI/YL	BLACK
230 lb to 265 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 325	3	YL/SI/YL	BLACK
265 lb to 300 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	4	YL/SI/YL	BLACK
300 lb to 325 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	5	YL/SI/YL	BLACK

SUMMIT SPORT (EUROPE)

STANDARD

Up to 150 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 325	1	YL/SI/YL	BLACK
150 lb to 180 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 325	2	YL/SI/YL	BLACK
180 lb to 210 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 325	3	YL/SI/YL	BLACK
210 lb to 240 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 325	4	YL/SI/YL	BLACK
240 lb to 265 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 325	5	YL/SI/YL	BLACK

OPTION 1

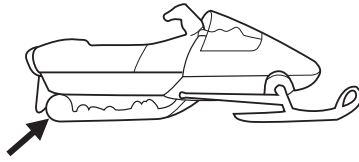
Up to 200 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 325	1	YL/SI/YL	BLACK
200 lb to 230 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 325	2	YL/SI/YL	BLACK
230 lb to 265 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 325	3	YL/SI/YL	BLACK
265 lb to 300 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	4	YL/SI/YL	BLACK
300 lb to 325 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	5	YL/SI/YL	BLACK

SPRING COLOR CODES

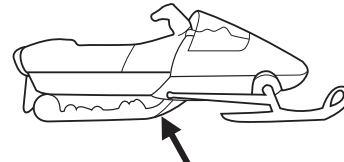
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

GRAND TOURING SE (CAN, U.S.)

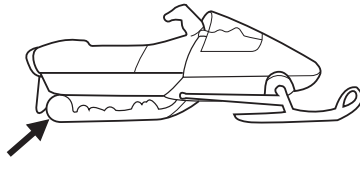
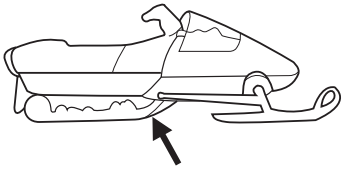
REAR SPRING



CENTER SPRING



RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	AIR PRESSURE	
STANDARD									
Up to 175 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	1/8
175 lb to 225 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	1/4
225 lb to 300 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	1/2
300 lb to 350 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
350 lb to 400 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
400 lb to 450 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
450 lb to 500 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
500 lb to 550 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK	4/4
OPTION 1									
Up to 225 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	1/8
225 lb to 275 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	1/4
275 lb to 325 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	1/2
325 lb to 385 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
385 lb to 440 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
440 lb to 500 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
500 lb to 550 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	3/4
550 lb to 600 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK	4/4
OPTION 2									
Up to 275 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	1/8
275 lb to 325 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	1/4
325 lb to 375 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	1/2
375 lb to 435 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
435 lb to 490 lb	503 189 681	503 189 683	2	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
490 lb to 550 lb	503 189 681	503 189 683	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
550 lb to 600 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
600 lb to 650 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	3	BL/RD/YL	BLACK	4/4
SPRING COLOR CODES									
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW									

GRAND TOURING SE (EUROPE)									
REAR SPRING					CENTER SPRING				
									
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	AIR PRESSURE	

STANDARD

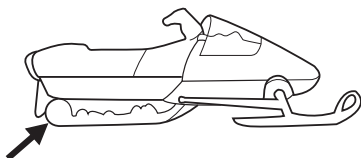
Up to 175 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	1/8
175 lb to 225 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	1/4
225 lb to 300 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	1/2
300 lb to 350 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
350 lb to 400 lb	503 189 681	503 189 683	2	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
400 lb to 450 lb	503 189 681	503 189 683	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
450 lb to 500 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	3	BL/RD/YL	BLACK	3/4
500 lb to 550 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	3	BL/RD/YL	BLACK	4/4

SPRING COLOR CODES

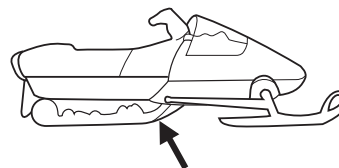
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

GRAND TOURING SPORT / GS (CAN, U.S.)

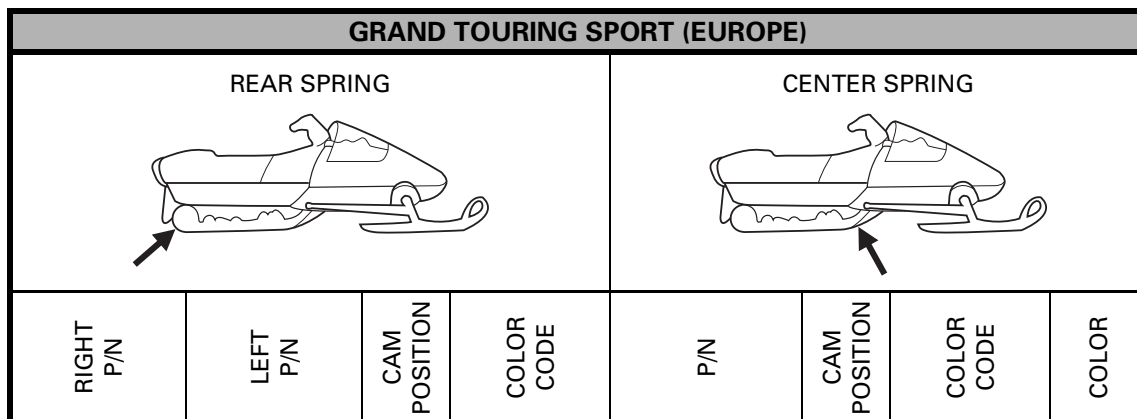
REAR SPRING



CENTER SPRING



RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	
STANDARD								
Up to 190 lb	503 189 898	503 189 900	1	GD/GD/GD	503 189 659	1	BL/RD/YL	BLACK
190 lb to 250 lb	503 189 898	503 189 900	2	GD/GD/GD	503 189 659	2	BL/RD/YL	BLACK
250 lb to 300 lb	503 189 898	503 189 900	3	GD/GD/GD	503 189 659	3	BL/RD/YL	BLACK
300 lb to 350 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	4	BL/RD/YL	BLACK
350 lb to 375 lb	503 189 898	503 189 900	4	GD/GD/GD	503 189 659	5	BL/RD/YL	BLACK
OPTION 1								
Up to 240 lb	503 189 327	503 189 329	1	SI	503 189 659	1	BL/RD/YL	BLACK
240 lb to 300 lb	503 189 327	503 189 329	2	SI	503 189 659	2	BL/RD/YL	BLACK
300 lb to 350 lb	503 189 327	503 189 329	3	SI	503 189 659	3	BL/RD/YL	BLACK
350 lb to 400 lb	503 189 327	503 189 329	4	SI	503 189 659	4	BL/RD/YL	BLACK
400 lb to 425 lb	503 189 327	503 189 329	4	SI	503 189 659	5	BL/RD/YL	BLACK
OPTION 2								
Up to 290 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	1	BL/RD/YL	BLACK
290 lb to 350 lb	503 189 681	503 189 683	2	SI/SI	503 189 659	2	BL/RD/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK
400 lb to 450 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	4	BL/RD/YL	BLACK
450 lb to 475 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	5	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								



STANDARD								
Up to 240 lb	503 189 681	503 189 683	1	SI/SI	503 189 659	1	BL/RD/YL	BLACK
240 lb to 300 lb	503 189 681	503 189 683	2	SI/SI	503 189 659	2	BL/RD/YL	BLACK
300 lb to 350 lb	503 189 681	503 189 683	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK
350 lb to 400 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	4	BL/RD/YL	BLACK
400 lb to 425 lb	503 189 681	503 189 683	4	SI/SI	503 189 659	5	BL/RD/YL	BLACK

SPRING COLOR CODES

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

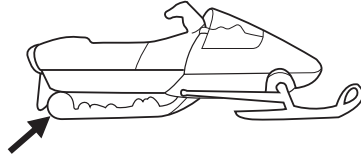
TOURING 500 FAN / 380 FAN (CAN, U.S.)								
STANDARD								
Up to 200 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
200 lb to 280 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
280 lb to 320 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
320 lb to 350 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 325	N.A.	YL/SI/YL	BLACK
OPTION 1								
Up to 250 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
250 lb to 330 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
330 lb to 370 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
370 lb to 400 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK

SPRING COLOR CODES

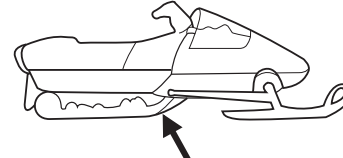
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

TOURING 500 FAN / 380 FAN (EUROPE)

REAR SPRING



CENTER SPRING



RIGHT
P/N

LEFT
P/N

CAM
POSITION

COLOR
CODE

P/N

CAM
POSITION

COLOR
CODE

COLOR

STANDARD

Up to 200 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 659	N.A.	BL/RD/YL	BLACK
200 lb to 280 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 659	N.A.	BL/RD/YL	BLACK
280 lb to 320 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 659	N.A.	BL/RD/YL	BLACK
320 lb to 350 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	N.A.	BL/RD/YL	BLACK

OPTION 1

Up to 250 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
250 lb to 330 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
330 lb to 370 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK
370 lb to 400 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	N.A.	BL/RD/YL	BLACK

SPRING COLOR CODES

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

SUMMIT X (EUROPE)

STANDARD

Up to 150 lb	503 189 627	503 189 629	1	YL/WH	503 189 686	1	RD/SI/YL	BLACK
150 lb to 180 lb	503 189 627	503 189 629	2	YL/WH	503 189 686	2	RD/SI/YL	BLACK
180 lb to 210 lb	503 189 627	503 189 629	3	YL/WH	503 189 686	3	RD/SI/YL	BLACK
210 lb to 240 lb	503 189 627	503 189 629	4	YL/WH	503 189 686	4	RD/SI/YL	BLACK
240 lb to 265 lb	503 189 627	503 189 629	4	YL/WH	503 189 686	5	RD/SI/YL	BLACK

OPTION 1

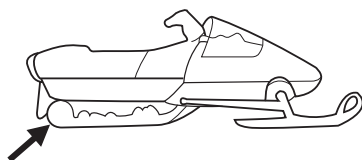
Up to 200 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 686	1	RD/SI/YL	BLACK
200 lb to 230 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 686	2	RD/SI/YL	BLACK
230 lb to 265 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 686	3	RD/SI/YL	BLACK
265 lb to 300 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	4	RD/SI/YL	BLACK
300 lb to 325 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	5	RD/SI/YL	BLACK

SPRING COLOR CODES

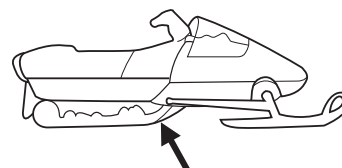
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW

SUMMIT 500 FAN (CAN, U.S.)

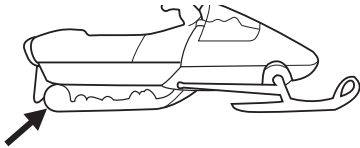
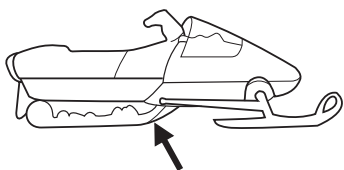
REAR SPRING

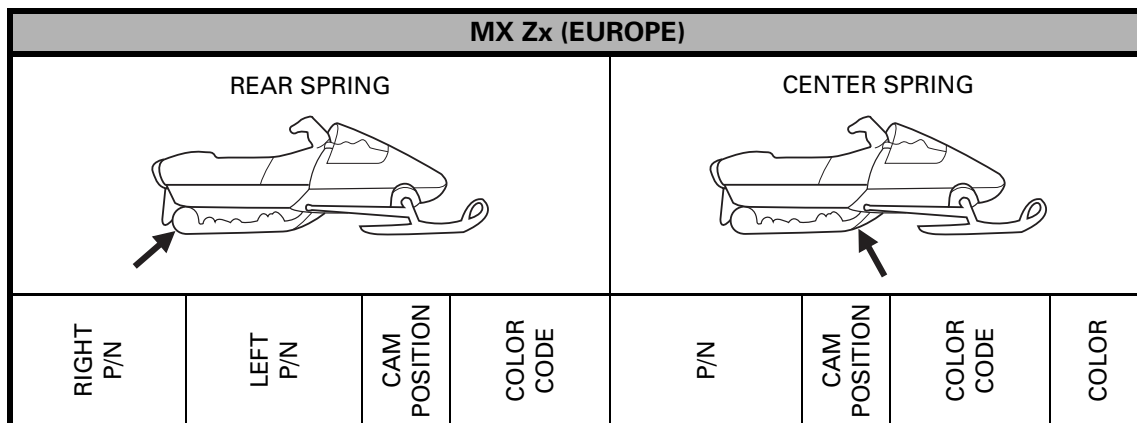


CENTER SPRING



RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	
STANDARD								
Up to 125 lb	503 189 902	503 189 904	1	RD/RD/YL	415 070 100	N.A.	GD/YL/YL	BLACK
125 lb to 150 lb	503 189 902	503 189 904	2	RD/RD/YL	415 070 100	N.A.	GD/YL/YL	BLACK
150 lb to 175 lb	503 189 902	503 189 904	3	RD/RD/YL	415 070 100	N.A.	GD/YL/YL	BLACK
175 lb to 200 lb	503 189 902	503 189 904	4	RD/RD/YL	415 070 100	N.A.	GD/YL/YL	BLACK
OPTION 1								
Up to 175 lb	503 189 522	503 189 524	1	GN/GN/YL	415 070 500	N.A.	BL/YL/YL	BLACK
175 lb to 200 lb	503 189 522	503 189 524	2	GN/GN/YL	415 070 500	N.A.	BL/YL/YL	BLACK
200 lb to 225 lb	503 189 522	503 189 524	3	GN/GN/YL	415 070 500	N.A.	BL/YL/YL	BLACK
225 lb to 250 lb	503 189 522	503 189 524	4	GN/GN/YL	415 070 500	N.A.	BL/YL/YL	BLACK
OPTION 2								
Up to 225 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
225 lb to 250 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
250 lb to 275 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
275 lb to 300 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 325	N.A.	YL/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

MX Z SPORT (EUROPE)								
REAR SPRING				CENTER SPRING				
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	
STANDARD								
Up to 170 lb	503 189 443	503 189 445	1	GN/GN/GN	503 189 686	1	RD/SI/YL	BLACK
170 lb to 200 lb	503 189 443	503 189 445	2	GN/GN/GN	503 189 686	2	RD/SI/YL	BLACK
200 lb to 230 lb	503 189 443	503 189 445	3	GN/GN/GN	503 189 686	3	RD/SI/YL	BLACK
230 lb to 260 lb	503 189 443	503 189 445	4	GN/GN/GN	503 189 686	5	RD/SI/YL	BLACK
260 lb to 270 lb	503 189 443	503 189 445	4	GN/GN/GN	503 189 686	6	RD/SI/YL	BLACK
270 lb to 280 lb	503 189 443	503 189 445	4	GN/GN/GN	503 189 686	7	RD/SI/YL	BLACK
OPTION 1								
Up to 220 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 686	1	RD/SI/YL	BLACK
220 lb to 250 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 686	2	RD/SI/YL	BLACK
250 lb to 280 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 686	3	RD/SI/YL	BLACK
280 lb to 310 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 686	5	RD/SI/YL	BLACK
310 lb to 320 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 686	6	RD/SI/YL	BLACK
320 lb to 330 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 686	7	RD/SI/YL	BLACK
OPTION 2								
Up to 270 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 686	1	RD/SI/YL	BLACK
270 lb to 300 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 686	2	RD/SI/YL	BLACK
300 lb to 330 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 686	3	RD/SI/YL	BLACK
330 lb to 360 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	5	RD/SI/YL	BLACK
360 lb to 370 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	6	RD/SI/YL	BLACK
370 lb to 380 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	7	RD/SI/YL	BLACK
OPTION 3								
Up to 320 lb	503 189 327	503 189 329	1	SI	503 189 686	1	RD/SI/YL	BLACK
320 lb to 350 lb	503 189 327	503 189 329	2	SI	503 189 686	2	RD/SI/YL	BLACK
350 lb to 380 lb	503 189 327	503 189 329	3	SI	503 189 686	3	RD/SI/YL	BLACK
380 lb to 410 lb	503 189 327	503 189 329	4	SI	503 189 686	5	RD/SI/YL	BLACK
410 lb to 420 lb	503 189 327	503 189 329	4	SI	503 189 686	6	RD/SI/YL	BLACK
420 lb to 430 lb	503 189 327	503 189 329	4	SI	503 189 686	7	RD/SI/YL	BLACK
OPTION 4								
Up to 370 lb	503 189 681	503 189 682	1	SI/SI	503 189 686	1	RD/SI/YL	BLACK
370 lb to 400 lb	503 189 681	503 189 682	2	SI/SI	503 189 686	2	RD/SI/YL	BLACK
400 lb to 430 lb	503 189 681	503 189 682	3	SI/SI	503 189 686	3	RD/SI/YL	BLACK
430 lb to 460 lb	503 189 681	503 189 682	4	SI/SI	503 189 686	5	RD/SI/YL	BLACK
460 lb to 475 lb	503 189 681	503 189 682	4	SI/SI	503 189 686	6	RD/SI/YL	BLACK
475 lb to 490 lb	503 189 681	503 189 682	4	SI/SI	503 189 686	7	RD/SI/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								



STANDARD								
Up to 170 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 686	1	RD/SI/YL	BLACK
170 lb to 200 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 686	2	RD/SI/YL	BLACK
200 lb to 230 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 686	3	RD/SI/YL	BLACK
230 lb to 260 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	5	RD/SI/YL	BLACK
260 lb to 270 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	6	RD/SI/YL	BLACK
270 lb to 280 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 686	7	RD/SI/YL	BLACK

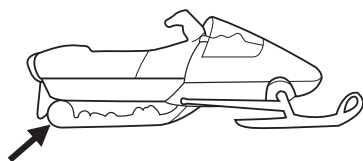
OPTION 1								
Up to 220 lb	503 189 327	503 189 329	1	SI	503 189 686	1	RD/SI/YL	BLACK
220 lb to 250 lb	503 189 327	503 189 329	2	SI	503 189 686	2	RD/SI/YL	BLACK
250 lb to 280 lb	503 189 327	503 189 329	3	SI	503 189 686	3	RD/SI/YL	BLACK
280 lb to 310 lb	503 189 327	503 189 329	4	SI	503 189 686	5	RD/SI/YL	BLACK
310 lb to 320 lb	503 189 327	503 189 329	4	SI	503 189 686	6	RD/SI/YL	BLACK
320 lb to 330 lb	503 189 327	503 189 329	4	SI	503 189 686	7	RD/SI/YL	BLACK

OPTION 2								
Up to 270 lb	503 189 681	503 189 682	1	SI/SI	503 189 686	1	RD/SI/YL	BLACK
270 lb to 300 lb	503 189 681	503 189 682	2	SI/SI	503 189 686	2	RD/SI/YL	BLACK
300 lb to 330 lb	503 189 681	503 189 682	3	SI/SI	503 189 686	3	RD/SI/YL	BLACK
330 lb to 360 lb	503 189 681	503 189 682	4	SI/SI	503 189 686	5	RD/SI/YL	BLACK
360 lb to 370 lb	503 189 681	503 189 682	4	SI/SI	503 189 686	6	RD/SI/YL	BLACK
370 lb to 380 lb	503 189 681	503 189 682	4	SI/SI	503 189 686	7	RD/SI/YL	BLACK

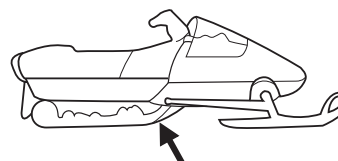
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

MX Z TRAIL/RENEGADE; LEGEND SPORT/GS/SE (CAN/U.S.)

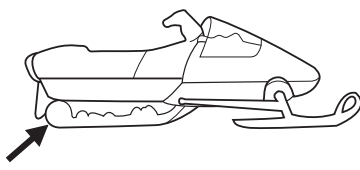
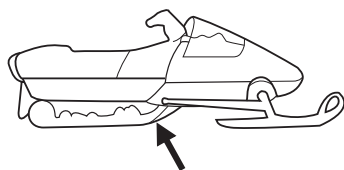
REAR SPRING



CENTER SPRING

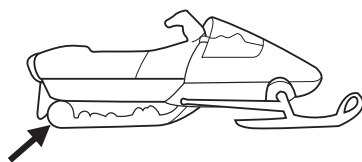


	RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE		P/N	CAM POSITION	COLOR CODE	COLOR
STANDARD									
Up to 170 lb	503 189 902	503 189 904	1	RD/RD/YL		503 189 325	1	YL/SI/YL	BLACK
170 lb to 200 lb	503 189 902	503 189 904	2	RD/RD/YL		503 189 325	2	YL/SI/YL	BLACK
200 lb to 230 lb	503 189 902	503 189 904	3	RD/RD/YL		503 189 325	3	YL/SI/YL	BLACK
230 lb to 260 lb	503 189 902	503 189 904	4	RD/RD/YL		503 189 325	5	YL/SI/YL	BLACK
260 lb to 270 lb	503 189 902	503 189 904	4	RD/RD/YL		503 189 325	6	YL/SI/YL	BLACK
270 lb to 280 lb	503 189 902	503 189 904	4	RD/RD/YL		503 189 325	7	YL/SI/YL	BLACK
OPTION 1									
Up to 220 lb	503 189 522	503 189 524	1	GN/GN/YL		503 189 325	1	YL/SI/YL	BLACK
220 lb to 250 lb	503 189 522	503 189 524	2	GN/GN/YL		503 189 325	2	YL/SI/YL	BLACK
250 lb to 280 lb	503 189 522	503 189 524	3	GN/GN/YL		503 189 325	3	YL/SI/YL	BLACK
280 lb to 310 lb	503 189 522	503 189 524	4	GN/GN/YL		503 189 325	5	YL/SI/YL	BLACK
310 lb to 320 lb	503 189 522	503 189 524	4	GN/GN/YL		503 189 325	6	YL/SI/YL	BLACK
320 lb to 330 lb	503 189 522	503 189 524	4	GN/GN/YL		503 189 325	7	YL/SI/YL	BLACK
OPTION 2									
Up to 270 lb	503 189 674	503 189 675	1	SI/YL/YL		503 189 325	1	YL/SI/YL	BLACK
270 lb to 300 lb	503 189 674	503 189 675	2	SI/YL/YL		503 189 325	2	YL/SI/YL	BLACK
300 lb to 330 lb	503 189 674	503 189 675	3	SI/YL/YL		503 189 325	3	YL/SI/YL	BLACK
330 lb to 360 lb	503 189 674	503 189 675	4	SI/YL/YL		503 189 325	5	YL/SI/YL	BLACK
360 lb to 370 lb	503 189 674	503 189 675	4	SI/YL/YL		503 189 325	6	YL/SI/YL	BLACK
370 lb to 380 lb	503 189 674	503 189 675	4	SI/YL/YL		503 189 325	7	YL/SI/YL	BLACK
OPTION 3									
Up to 320 lb	503 189 327	503 189 329	1	SI		503 189 325	1	YL/SI/YL	BLACK
320 lb to 350 lb	503 189 327	503 189 329	2	SI		503 189 325	2	YL/SI/YL	BLACK
350 lb to 380 lb	503 189 327	503 189 329	3	SI		503 189 325	3	YL/SI/YL	BLACK
380 lb to 410 lb	503 189 327	503 189 329	4	SI		503 189 325	5	YL/SI/YL	BLACK
410 lb to 420 lb	503 189 327	503 189 329	4	SI		503 189 325	6	YL/SI/YL	BLACK
420 lb to 430 lb	503 189 327	503 189 329	4	SI		503 189 325	7	YL/SI/YL	BLACK
OPTION 4									
Up to 370 lb	503 189 681	503 189 682	1	SI/SI		503 189 325	1	YL/SI/YL	BLACK
370 lb to 400 lb	503 189 681	503 189 682	2	SI/SI		503 189 325	2	YL/SI/YL	BLACK
400 lb to 430 lb	503 189 681	503 189 682	3	SI/SI		503 189 325	3	YL/SI/YL	BLACK
430 lb to 460 lb	503 189 681	503 189 682	4	SI/SI		503 189 325	5	YL/SI/YL	BLACK
460 lb to 475 lb	503 189 681	503 189 682	4	SI/SI		503 189 325	6	YL/SI/YL	BLACK
475 lb to 490 lb	503 189 681	503 189 682	4	SI/SI		503 189 325	7	YL/SI/YL	BLACK
SPRING COLOR CODES									
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW									

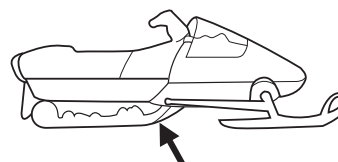
MX Z RENEGADE (EUROPE)								
REAR SPRING					CENTER SPRING			
								
RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	
STANDARD								
Up to 170 lb	503 189 902	503 189 904	1	RD/RD/YL	503 189 659	1	BL/RD/YL	BLACK
170 lb to 200 lb	503 189 902	503 189 904	2	RD/RD/YL	503 189 659	2	BL/RD/YL	BLACK
200 lb to 230 lb	503 189 902	503 189 904	3	RD/RD/YL	503 189 659	3	BL/RD/YL	BLACK
230 lb to 260 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 659	5	BL/RD/YL	BLACK
260 lb to 270 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 659	6	BL/RD/YL	BLACK
270 lb to 280 lb	503 189 902	503 189 904	4	RD/RD/YL	503 189 659	7	BL/RD/YL	BLACK
OPTION 1								
Up to 220 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK
280 lb to 310 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	5	BL/RD/YL	BLACK
310 lb to 320 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	6	BL/RD/YL	BLACK
320 lb to 330 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	7	BL/RD/YL	BLACK
OPTION 2								
Up to 270 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	1	BL/RD/YL	BLACK
270 lb to 300 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 659	2	BL/RD/YL	BLACK
300 lb to 330 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK
330 lb to 360 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	5	BL/RD/YL	BLACK
360 lb to 370 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	6	BL/RD/YL	BLACK
370 lb to 380 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	7	BL/RD/YL	BLACK
OPTION 3								
Up to 320 lb	503 189 327	503 189 329	1	SI	503 189 659	1	BL/RD/YL	BLACK
320 lb to 350 lb	503 189 327	503 189 329	2	SI	503 189 659	2	BL/RD/YL	BLACK
350 lb to 380 lb	503 189 327	503 189 329	3	SI	503 189 659	3	BL/RD/YL	BLACK
380 lb to 410 lb	503 189 327	503 189 329	4	SI	503 189 659	5	BL/RD/YL	BLACK
410 lb to 420 lb	503 189 327	503 189 329	4	SI	503 189 659	6	BL/RD/YL	BLACK
420 lb to 430 lb	503 189 327	503 189 329	4	SI	503 189 659	7	BL/RD/YL	BLACK
OPTION 4								
Up to 370 lb	503 189 681	503 189 682	1	SI/SI	503 189 659	1	BL/RD/YL	BLACK
370 lb to 400 lb	503 189 681	503 189 682	2	SI/SI	503 189 659	2	BL/RD/YL	BLACK
400 lb to 430 lb	503 189 681	503 189 682	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK
430 lb to 460 lb	503 189 681	503 189 682	4	SI/SI	503 189 659	5	BL/RD/YL	BLACK
460 lb to 475 lb	503 189 681	503 189 682	4	SI/SI	503 189 659	6	BL/RD/YL	BLACK
475 lb to 490 lb	503 189 681	503 189 682	4	SI/SI	503 189 659	7	BL/RD/YL	BLACK
SPRING COLOR CODES								
BK = BLACK BL = BLUE GD = GOLD GN = GREEN OR = ORANGE PI = PINK RD = RED SI = SILVER WH = WHITE YL = YELLOW								

LEGEND SE (EUROPE)

REAR SPRING



CENTER SPRING



RIGHT P/N	LEFT P/N	CAM POSITION	COLOR CODE	P/N	CAM POSITION	COLOR CODE	COLOR	
STANDARD								
Up to 170 lb	503 189 522	503 189 524	1	GN/GN/YL	503 189 659	1	BL/RD/YL	BLACK
170 lb to 200 lb	503 189 522	503 189 524	2	GN/GN/YL	503 189 659	2	BL/RD/YL	BLACK
200 lb to 230 lb	503 189 522	503 189 524	3	GN/GN/YL	503 189 659	3	BL/RD/YL	BLACK
230 lb to 260 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	5	BL/RD/YL	BLACK
260 lb to 270 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	6	BL/RD/YL	BLACK
270 lb to 280 lb	503 189 522	503 189 524	4	GN/GN/YL	503 189 659	7	BL/RD/YL	BLACK
OPTION 1								
Up to 220 lb	503 189 674	503 189 675	1	SI/YL/YL	503 189 659	1	BL/RD/YL	BLACK
220 lb to 250 lb	503 189 674	503 189 675	2	SI/YL/YL	503 189 659	2	BL/RD/YL	BLACK
250 lb to 280 lb	503 189 674	503 189 675	3	SI/YL/YL	503 189 659	3	BL/RD/YL	BLACK
280 lb to 310 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	5	BL/RD/YL	BLACK
310 lb to 320 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	6	BL/RD/YL	BLACK
320 lb to 330 lb	503 189 674	503 189 675	4	SI/YL/YL	503 189 659	7	BL/RD/YL	BLACK
OPTION 2								
Up to 270 lb	503 189 327	503 189 329	1	SI	503 189 659	1	BL/RD/YL	BLACK
270 lb to 300 lb	503 189 327	503 189 329	2	SI	503 189 659	2	BL/RD/YL	BLACK
300 lb to 330 lb	503 189 327	503 189 329	3	SI	503 189 659	3	BL/RD/YL	BLACK
330 lb to 360 lb	503 189 327	503 189 329	4	SI	503 189 659	5	BL/RD/YL	BLACK
360 lb to 370 lb	503 189 327	503 189 329	4	SI	503 189 659	6	BL/RD/YL	BLACK
370 lb to 380 lb	503 189 327	503 189 329	4	SI	503 189 659	7	BL/RD/YL	BLACK
OPTION 3								
Up to 320 lb	503 189 681	503 189 682	1	SI/SI	503 189 659	1	BL/RD/YL	BLACK
320 lb to 350 lb	503 189 681	503 189 682	2	SI/SI	503 189 659	2	BL/RD/YL	BLACK
350 lb to 380 lb	503 189 681	503 189 682	3	SI/SI	503 189 659	3	BL/RD/YL	BLACK
380 lb to 410 lb	503 189 681	503 189 682	4	SI/SI	503 189 659	5	BL/RD/YL	BLACK
410 lb to 420 lb	503 189 681	503 189 682	4	SI/SI	503 189 659	6	BL/RD/YL	BLACK
420 lb to 430 lb	503 189 681	503 189 682	4	SI/SI	503 189 659	7	BL/RD/YL	BLACK

SPRING COLOR CODES

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

Please route to:

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



No. **2002-9**

Date: October 24, 2001

SUBJECT: Start/RER Feature

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	Legend™ (Liquid Cooled)	2011/2012/2013/2014/2015/2016/2017/2018/2019/ 2020/2021/2022/2023/2024/2025/2026/2027/2028/2029/ 2030/2031/2032/2033/2034/2035/2036/2037/2038/2136	All
2002	Grand Touring™	2047/2048/2049/2050/2051/2052/2071/2072/2073/2074/2075/ 2076/2077/2078/2079/2080/2081/2082/2083/2084/2085/2086/ 2087/2088/2089/2090/2137/2138/2140/2148/2149/2159	All

Feature

The single Start/Reverse button will

- engage starter to crank the engine
- shift into reverse
- shift back into forward.

Hint

To be sure that start/RER is properly functioning you must:

- hear 2 beeps after vehicle starts
- hear backing-up warning beeper to ensure reverse has engaged.

How it Works

- When button is depressed **with the engine not running**, it engages the starter to crank the engine.
- When button is depressed while the engine is running, and **if idle speed has exceeded and remains above 1000 RPM**, it shifts into reverse.

NOTE: If idle falls below 1000 RPM, RER will not engage.

Irregularity

- When button is depressed while the engine is running, **but idle speed never exceeded 1000 RPM**, starter will engage again.

NOTE: If idle falls below 1000 RPM, RER will not engage.

Should you encounter this irregularity with start/RER button **make sure that engine idle speed is set to specification.**

Conclusion

Make sure all involved personnel are aware of these important start/RER features and that customers are notified upon delivery of a new involved unit.

Please route to:

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



No. **2002-10**

Date: October 24, 2001

SUBJECT: Spring Chart

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All (except utility models)	All	All

This bulletin is divided into 2 main sections.

Section 1: Spring Applications

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

Section 2: Spring Specifications

Refers to spring specifications.

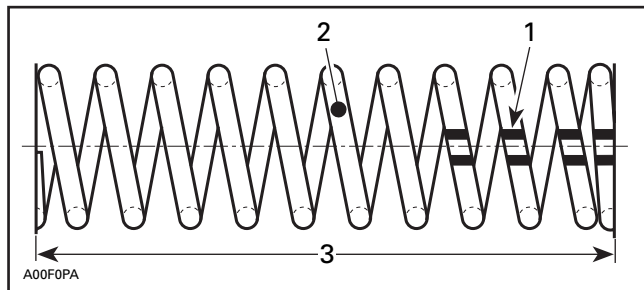
The information in this bulletin supersedes all information previously published.

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

COIL SPRINGS (compression)

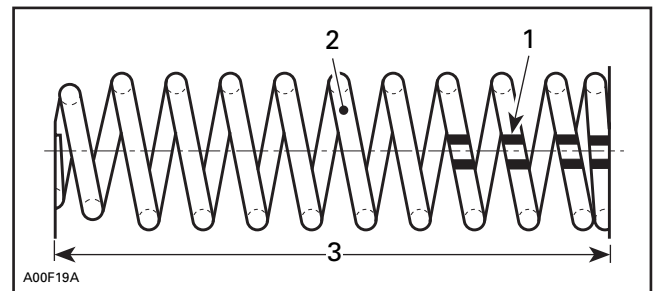
NOTE: Read color when spring is upright and stripes are down.

Type R (straight on both ends) (Single Rate Spring)



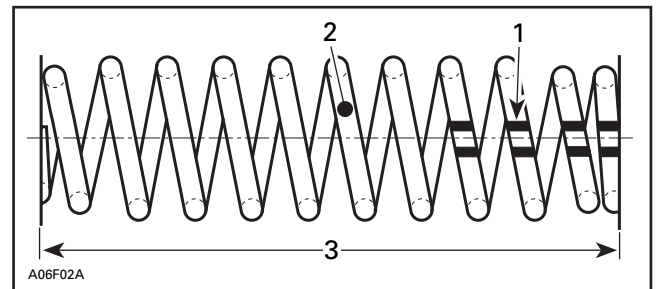
1. Color code stripes
2. Wire diameter
3. Free length

Type S (barrel shape on one end) (Single Rate Spring)



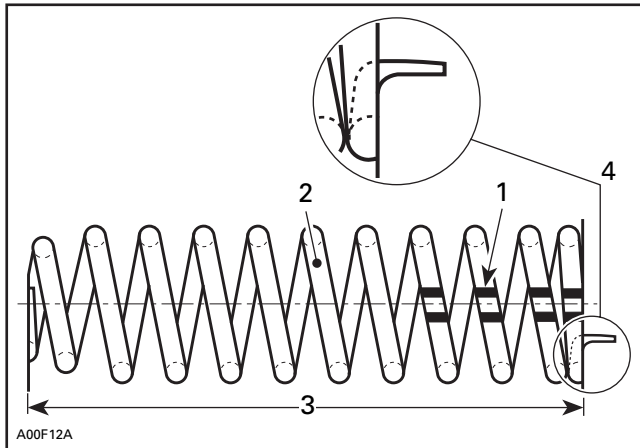
1. Color code stripes
2. Wire diameter
3. Free length

Type T (barrel shape on both ends) (Single Rate Spring)



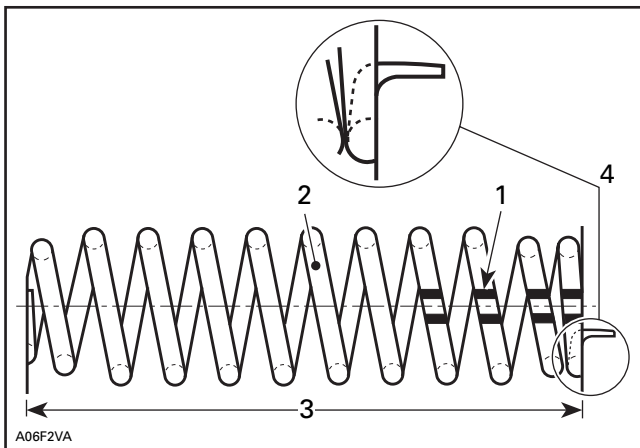
1. Color code stripes
2. Wire diameter
3. Free length

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



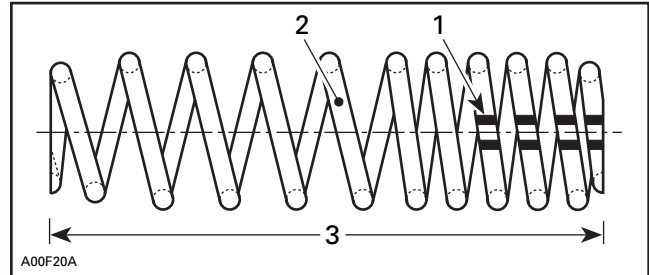
1. Color code stripes
2. Wire diameter
3. Free length
4. Positioning tab

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



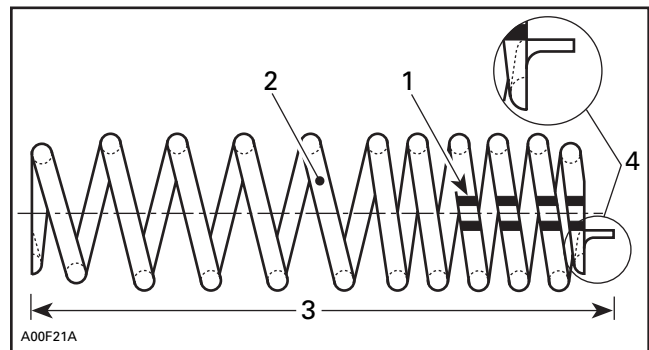
1. Color code stripes
2. Wire diameter
3. Free length
4. Positioning tab

Type 2
 (barrel shape on both ends)
 (Dual Rate Spring)



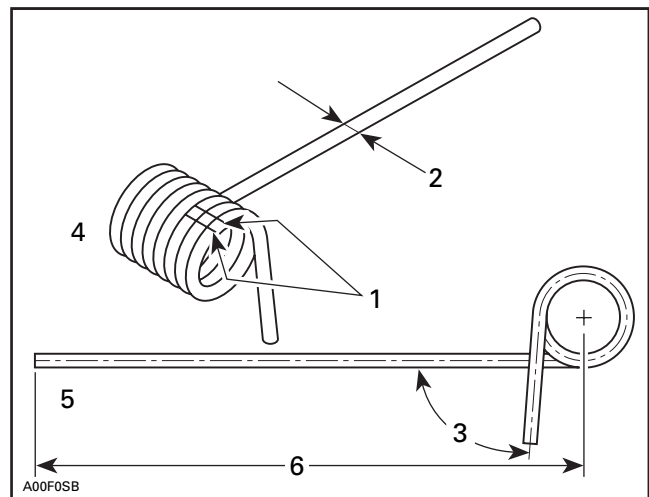
1. Color code stripes
2. Wire diameter
3. Free length

Type 4
 (barrel shape on both ends with
 positioning tab at the color code coils end)
 (Dual Rate Spring)



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

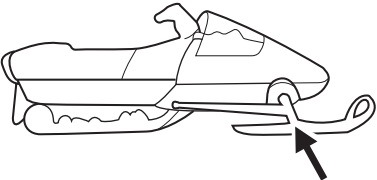
TORSION SPRINGS



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

SECTION 1

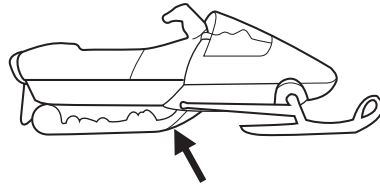
SPRING APPLICATIONS

2002		FRONT SPRINGS		2002	
					
MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING		
MACH Z	414 956 300	415 075 900	415 039 700		
MACH Z TECH PLUS	414 956 300	415 075 900	415 039 700		
MX Z SPORT	Not Applicable	505 070 852	505 070 153		
MX Z ADRENALINE	Not Applicable	505 070 852	505 070 153		
MX Z TRAIL	505 070 758	505 070 393	505 070 153		
MX Zx	Not Applicable	505 070 852	505 070 153		
MX Z RENEGADE	Not Applicable	505 070 758	505 070 393		
MX Z FAN	505 070 758	505 070 393	505 070 153		
SUMMIT SPORT	505 070 393	505 070 762	505 070 576		
SUMMIT X	505 070 393	505 070 760	505 070 144		
SUMMIT HM SPORT	505 070 393	505 070 762	505 070 576		
SUMMIT HM X	505 070 393	505 070 760	505 070 144		
SUMMIT 500 F	505 070 393	505 070 762	505 070 576		
LEGEND SPORT	505 070 758	505 070 686	505 070 153		
LEGEND GS	505 070 758	505 070 686	505 070 153		
LEGEND SE	505 070 758	505 070 686	505 070 153		
LEGEND FAN	505 070 758	505 070 686	505 070 153		
GRAND TOURING SE	505 070 758	505 070 686	505 070 153		
GRAND TOURING SPORT	505 070 758	505 070 686	505 070 153		
GRAND TOURING GS	505 070 758	505 070 686	505 070 153		
TOURING FAN	505 070 758	505 070 686	505 070 153		

2002

CENTER SPRINGS

2002

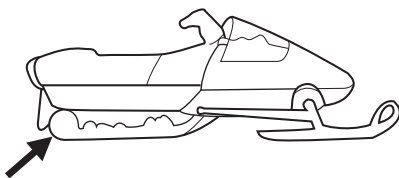


MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	415 070 400	415 090 500 415 090 600	415 103 600
MACH Z TECH PLUS	415 070 400	415 090 500 415 090 600	415 103 600
MX Z SPORT	415 070 500	503 189 812	503 189 325
MX Z ADRENALINE	415 070 500	503 189 812	503 189 325
MX Z TRAIL	415 070 500	503 189 325	503 189 659
MX Zx	415 070 500	503 189 812	503 189 325
MX Z RENEGADE	415 070 500	503 189 325	503 189 659
MX Z FAN	415 070 100	415 070 500	503 189 325
SUMMIT SPORT	415 070 100	415 070 500	503 189 325
SUMMIT X	415 070 100	415 070 500	503 189 325
SUMMIT HM SPORT	415 070 100	415 070 500	503 189 325
SUMMIT HM X	415 070 100	415 070 500	503 189 325
SUMMIT 500 F	505 070 020	415 070 100	415 070 500
LEGEND SPORT	415 070 500	503 189 325	503 189 659
LEGEND GS	415 070 500	503 189 325	503 189 659
LEGEND SE	415 070 500	503 189 325	503 189 659
LEGEND FAN	415 070 100	415 070 500	503 189 325
GRAND TOURING SE	503 189 325	503 189 659	503 189 686
GRAND TOURING STANDARD	503 189 325	503 189 659	503 189 686
GRAND TOURING GS	503 189 325	503 189 659	503 189 686
TOURING FAN	415 070 500	503 189 325	503 189 659

2002

REAR SPRINGS

2002



MODEL	(P/N) SOFTER SPRING	(P/N) STANDARD	(P/N) HARDER SPRING
MACH Z	503 189 629 LH 503 189 627 RH	503 189 616 LH 503 189 615 RH	503 189 524 LH 503 189 522 RH
MACH Z TECH PLUS	503 189 629 LH 503 189 627 RH	503 189 616 LH 503 189 615 RH	503 189 524 LH 503 189 522 RH
MX Z SPORT	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
MX Z ADRENALINE	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
MX Z TRAIL	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
MX Zx	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
MX Z RENEGADE	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
MX Z FAN	Not Applicable	503 189 594 LH 503 189 592 RH	503 189 629 LH 503 189 627 RH
SUMMIT SPORT	503 189 616 LH 503 189 615 RH	503 189 524 LH 503 189 522 RH	503 189 675 LH 503 189 674 RH
SUMMIT X	503 189 616 LH 503 189 615 RH	503 189 524 LH 503 189 522 RH	503 189 675 LH 503 189 674 RH
SUMMIT HM SPORT	503 189 616 LH 503 189 615 RH	503 189 524 LH 503 189 522 RH	503 189 675 LH 503 189 674 RH
SUMMIT HM X	503 189 616 LH 503 189 615 RH	503 189 524 LH 503 189 522 RH	503 189 675 LH 503 189 674 RH
SUMMIT 500 F	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
LEGEND SPORT	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
LEGEND GS	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
LEGEND SE	503 189 629 LH 503 189 627 RH	503 189 904 LH 503 189 902 RH	503 189 524 LH 503 189 522 RH
LEGEND FAN	Not Applicable	503 189 594 LH 506 189 592 RH	503 189 629 LH 503 189 627 RH
GRAND TOURING SE	503 189 629 LH 503 189 627 RH	503 189 524 LH 503 189 522 RH	503 189 675 LH 503 189 674 RH
GRAND TOURING SPORT	503 189 522 LH 503 189 524 RH	503 189 900 LH 503 189 898 RH	503 189 683 LH 503 189 681 RH
GRAND TOURING GS	503 189 522 LH 503 189 524 RH	503 189 900 LH 503 189 898 RH	503 189 683 LH 503 189 681 RH
TOURING FAN	503 189 629 LH 503 189 627 RH	503 189 524 LH 503 189 522 RH	503 189 675 LH 503 189 674 RH
TUNDRA R	Not Applicable	414 880 200 LH 414 880 300 RH	503 189 252 LH 503 189 251 RH

LH = Left Hand RH = Right Hand

SECTION 2
SPRING SPECIFICATIONS
 Coil Springs Specifications

P/N	TYPE	SPRING RATE (lb/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
414 771 300	R	135	272.5	8.41	BK/BK	SAFARI RED
414 859 300	R	90 ± 7	239	7.14	BK/WH	YELLOW
414 956 300	R	100	265	7.14	PI/WH/BL	YELLOW
414 968 600	R	125	235	7.49	RD	NEON GREEN
414 974 400	R	90	265	7.14	GN/OR	BLACK
415 039 700	R	150	258	8.71	PI	BLACK
415 057 500	R	160	264	8.71	RD/GD	BLACK
415 075 900	R	125	262	7.92	BL/RD/BK	YELLOW
415 090 500	R	293	45	6.17	YL/BL/YL	BLACK
505 070 685	R	125	262	7.92	YL/YL/BK	FULL MOON
505 070 698	R	100	239	7.14	WH/BK/BK	YELLOW
415 090 600	S	220	210	9.19	RD/BL/YL	BLACK
415 057 500	T	160	264	8.71	RD/GD	BLACK
415 069 900	T	115	265	7.49	SI/YL/YL	BLACK
415 070 100	T	115	242	7.92	GD/YL/YL	BLACK
415 070 400	T	115	270	8.25	GN/YL/YL	BLACK
415 070 500	T	135	242	8.41	BL/YL/YL	BLACK
415 103 600	T	135	264	8.25	GN/GN/YL	BLACK
503 189 000	T	115	265	7.92	YL/GD/YL	BLACK
503 189 325	T	150	242	8.25	YL/SI/YL	BLACK
503 189 659	T	180	242	8.71	BL/RD/YL	BLACK
503 189 686	T	200	242	9.19	RD/SI/YL	BLACK
505 070 020	T	90	250	7.77	BK/OR/BK	YELLOW
505 070 144	T	100	290	8.25	RD/BK/RD	YELLOW
505 070 305	T	105	250	8.25	RD/OR/BK	YELLOW
505 070 475	T	90	250	7.77	BK/YL/GN	SILVER REFLECTION
505 070 576	T	150	300	9.19	RD/BL/WH	YELLOW
505 070 762	T	105	300	8.71	GN/GD/BK	YELLOW
505 070 573	Y	90	250	7.77	RD/BL/GN	YELLOW
505 070 760	Y	95	280	8.25	BL/GD/BK	YELLOW
503 189 812	2	125 - 200	250	8.41	BL/GN/YL	BLACK
505 070 153	2	65 - 95	340	8.25	GN/GN/BK	YELLOW
505 070 298	2	70 - 100	340	8.25	BL/PI/BK	YELLOW
505 070 393	2	55 - 85	320	7.77	RD/BL/RD	YELLOW
505 070 684	2	65 - 95	340	8.25	BK/GD/BK	FULL MOON

P/N	TYPE	SPRING RATE (lb/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) ± .05	COLOR CODE STRIPES	COLOR OF SPRING
505 070 686	2	55 - 85	320	7.77	YL/WH/BK	FULL MOON
505 070 758	2	45 - 85	320	7.49	RD/GD/BK	YELLOW
505 070 181	4	55 - 85	320	7.77	PI/BK/BK	YELLOW
505 070 692	4	55 - 85	320	7.77	BL/GN/RD	YELLOW
505 070 852	4	42 - 84	340	7.49	RD/GN/RD	YELLOW

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

Torsion Springs Specification

P/N	WIRE DIAMETER (mm)	OPENING ANGLE ± 7°	COLOR CODE	COLOR OF SPRING
414 880 200 LH 414 880 300 RH	9.5	100°	Not Applicable	BLACK
503 189 252 LH 503 189 251 RH	10.3	95°	RD/RD	BLACK
503 189 339 LH 503 189 338 RH	11.11	90°	GN/GN	BLACK
503 189 343 LH 503 189 342 RH	10.6	80°	RD/RD/RD	BLACK
503 189 347 LH 503 189 346 RH	10.3	85°	YL/YL/YL	BLACK
503 189 351 LH 503 189 350 RH	11.5	100°	GD/GD	BLACK
503 189 355 LH 503 189 354 RH	10.6	90°	WH/WH/WH	BLACK
503 189 359 LH 503 189 358 RH	11.11	80°	BL/BL	BLACK
503 189 445 LH 503 189 443 RH	11.11	95°	GN/GN/GN	BLACK
503 189 524 LH 503 189 522 RH	11.11	90°	GN/GN/YL	BLACK
503 189 594 LH 503 189 592 RH	10.3	85°	GD/RD	BLACK
503 189 616 LH 503 189 615 RH	11.11	100°	RD/YL	BLACK
503 189 629 LH 503 189 627 RH	10.6	90°	YL/WH	BLACK
503 189 675 LH 503 189 674 RH	11.11	80°	SI/YL/YL	BLACK
503 189 683 LH 503 189 681 RH	11.9	80°	SI/SI	BLACK
503 189 900 LH 503 189 898 RH	11.5	90°	GD/GD/GD	BLACK
503 189 904 LH 503 189 902 RH	10.6	80°	RD/RD/YL	BLACK

LH = Left Hand

RH = Right Hand

SPRING COLOR CODES

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

Please route to :

Init.

Service

Sales

Parts



No. **2002-11**
REVISION 1

Date: December 3, 2001

**SUBJECT: Summits Shipped
without Skis in Crate**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	Summit™ 800 HM X / HM / X / <u>500 FAN</u>	1960/1962/1965*/1967/1968/ 1969/1970/1971/1972/ <u>2009*/2010*</u>	Refer to attached listing of involved vehicles
2002	Summit 800 R HM X / HM / X	2190/2193/2196/2197/2198/ 2199/2200/2205/2216*/2218*	Refer to attached listing of involved vehicles

*Models with black handles. Other involved models must be equipped with yellow handles.

Some clearly identified units were delivered without their skis in the crate following the situation related to campaign no. 2002-0002 on *Warranty Bulletin no. 2002-2*.

By taking this special procedure, we assure that our and your customers will only receive skis that meet our highest quality standards.

Dealers/distributors do not need to order the skis.

The skis will be auto-shipped, free of charge, to each dealer/distributor as per vehicles invoiced.

The skis will be shipped to the dealers/distributors in order of vehicles shipped from Valcourt.

If you have placed an order for the missing skis, **please cancel this order** as they will be auto-shipped free of charge.

All regular orders for ski assembly will be delayed until this campaign-related auto-shipment is completed.

The situation has been corrected at our supplier's and high quality skis are provided to our dealers/distributors since mid-November.

From the beginning of this shipment up to November 23, black skis with black handle only were shipped. As of November 27, yellow handles were auto-shipped free of charge for involved vehicles accordingly to the dealer/distributor vehicle orders. Dealers/distributors can keep the black handle for their own inventory, no return is necessary.

Spring Promotion Units

All units sold under the Spring Promotion will receive the applicable rebate and the security deposit will be reimbursed.

These units are being monitored separately from the promotion and the parameters per which the unit must be delivered, paid-off and warranty registered within 25 days of invoice date will not apply until all the skis have been shipped to the dealers/distributors.

Upon registering your unit for warranty, simply enter the previously issued Spring Promotion Authorization Number which will issue the credits. The same policy will apply for the Fall Promotion. All the units will be tracked by serial numbers.

You can rest assure that we are taking all the required actions to ship, in the shortest period of time, skis that meet our highest quality standards.

Refer to attached list for involved units.

Serial Number Listing of Involved Units

1960 Model

2BPS196002V000002	2BPS196002V000033	2BPS1960X2V000069	2BPS196082V000104
2BPS196022V000003	2BPS196042V000035	2BPS196062V000070	2BPS196012V000106
2BPS196062V000005	2BPS196082V000037	2BPS196082V000071	2BPS196032V000107
2BPS196082V000006	2BPS1960X2V000038	2BPS1960X2V000072	2BPS196052V000108
2BPS1960X2V000007	2BPS196012V000039	2BPS196012V000073	2BPS196002V000114
2BPS196012V000008	2BPS196082V000040	2BPS196032V000074	2BPS196022V000115
2BPS196032V000009	2BPS196032V000043	2BPS196052V000075	2BPS196042V000116
2BPS1960X2V000010	2BPS196092V000046	2BPS196072V000076	2BPS196082V000121
2BPS196032V000012	2BPS196002V000047	2BPS196092V000077	2BPS1960X2V000122
2BPS196072V000014	2BPS196022V000048	2BPS196002V000078	2BPS196092V000130
2BPS196092V000015	2BPS196042V000049	2BPS196092V000080	2BPS196022V000132
2BPS196002V000016	2BPS196002V000050	2BPS196002V000081	2BPS196082V000135
2BPS196062V000019	2BPS196022V000051	2BPS196042V000083	2BPS1960X2V000136
2BPS196022V000020	2BPS196042V000052	2BPS196062V000084	2BPS196012V000140
2BPS196042V000021	2BPS196082V000054	2BPS196082V000085	2BPS196032V000141
2BPS196062V000022	2BPS196012V000056	2BPS196012V000087	2BPS196062V000148
2BPS196082V000023	2BPS196032V000057	2BPS196052V000089	2BPS196082V000149
2BPS1960X2V000024	2BPS196072V000059	2BPS196032V000091	2BPS196042V000150
2BPS196012V000025	2BPS196032V000060	2BPS196052V000092	2BPS196012V000154
2BPS196032V000026	2BPS196072V000062	2BPS196092V000094	2BPS196032V000155
2BPS196052V000027	2BPS196092V000063	2BPS196002V000095	2BPS196072V000157
2BPS196072V000028	2BPS196002V000064	2BPS196022V000096	2BPS196022V000163
2BPS196092V000029	2BPS196022V000065	2BPS196062V000098	2BPS196062V000165
2BPS196072V000031	2BPS196042V000066	2BPS196082V000099	2BPS196082V000166
2BPS196092V000032	2BPS196082V000068	2BPS196022V000101	

1962 Model

2BPS196272V000001	2BPS1962X2V000039	2BPS196272V000080	2BPS196212V000091
2BPS196292V000002	2BPS196222V000049	2BPS196292V000081	2BPS196252V000093
2BPS196282V000007	2BPS196292V000050	2BPS196202V000082	2BPS196292V000095
2BPS196292V000016	2BPS196262V000054	2BPS196262V000085	2BPS196202V000096
2BPS196202V000017	2BPS1962X2V000056	2BPS196282V000086	2BPS196222V000097
2BPS196222V000021	2BPS196202V000065	2BPS1962X2V000087	2BPS196242V000098
2BPS1962X2V000025	2BPS196222V000066	2BPS196212V000088	2BPS196262V000099
2BPS196272V000032	2BPS196282V000069	2BPS196232V000089	
2BPS196242V000036	2BPS1962X2V000073	2BPS1962X2V000090	

1965 Model

2BPS196542V000001	2BPS196582V000003	2BPS196512V000005	2BPS196572V000008
2BPS196562V000002	2BPS1965X2V000004	2BPS196532V000006	2BPS196592V000009

1965 Model (cont'd)

2BPS196552V000010	2BPS196502V000027	2BPS196552V000041	2BPS196572V000056
2BPS196572V000011	2BPS196522V000028	2BPS196572V000042	2BPS196592V000057
2BPS196592V000012	2BPS196542V000029	2BPS196592V000043	2BPS196502V000058
2BPS196522V000014	2BPS196502V000030	2BPS196502V000044	2BPS196522V000059
2BPS196542V000015	2BPS196522V000031	2BPS196522V000045	2BPS196592V000060
2BPS196562V000016	2BPS196542V000032	2BPS196542V000046	2BPS196502V000061
2BPS196582V000017	2BPS196562V000033	2BPS196562V000047	2BPS196522V000062
2BPS196512V000019	2BPS196582V000034	2BPS196582V000048	2BPS196542V000063
2BPS196582V000020	2BPS1965X2V000035	2BPS1965X2V000049	2BPS196562V000064
2BPS1965X2V000021	2BPS196512V000036	2BPS196562V000050	2BPS196582V000065
2BPS196552V000024	2BPS196532V000037	2BPS1965X2V000052	2BPS1965X2V000066
2BPS196572V000025	2BPS196572V000039	2BPS196532V000054	2BPS196512V000067
2BPS196592V000026	2BPS196532V000040	2BPS196552V000055	

1967 Model

2BPS196722V000001	2BPS196732V000007	2BPS196702V000014	2BPS196762V000020
2BPS196742V000002	2BPS196752V000008	2BPS196722V000015	2BPS196782V000021
2BPS196762V000003	2BPS196772V000009	2BPS196742V000016	2BPS1967X2V000022
2BPS196782V000004	2BPS196732V000010	2BPS196762V000017	2BPS196712V000023
2BPS1967X2V000005	2BPS196772V000012	2BPS196782V000018	2BPS196732V000024
2BPS196712V000006	2BPS196792V000013	2BPS1967X2V000019	

1968 Model

2BPS196812V000001	2BPS196872V000021	2BPS1968X2V000059	2BPS196802V000068
2BPS196832V000002	2BPS196892V000022	2BPS196862V000060	2BPS196822V000069
2BPS196852V000003	2BPS196862V000026	2BPS1968X2V000062	2BPS196892V000070
2BPS196872V000004	2BPS196882V000027	2BPS196812V000063	2BPS196802V000071
2BPS196802V000006	2BPS196832V000033	2BPS196852V000065	2BPS196822V000072
2BPS196882V000013	2BPS196892V000036	2BPS196872V000066	
2BPS1968X2V000014	2BPS196822V000055	2BPS196892V000067	

1969 Model

2BPS196902V000001	2BPS196932V000011	2BPS196962V000021	2BPS196992V000031
2BPS196922V000002	2BPS196952V000012	2BPS196982V000022	2BPS196902V000032
2BPS196942V000003	2BPS196972V000013	2BPS1969X2V000023	2BPS196922V000033
2BPS196962V000004	2BPS196992V000014	2BPS196912V000024	2BPS196942V000034
2BPS196982V000005	2BPS196902V000015	2BPS196932V000025	2BPS196962V000035
2BPS1969X2V000006	2BPS196922V000016	2BPS196952V000026	2BPS196982V000036
2BPS196912V000007	2BPS196942V000017	2BPS196972V000027	2BPS1969X2V000037
2BPS196932V000008	2BPS196962V000018	2BPS196992V000028	
2BPS196952V000009	2BPS196982V000019	2BPS196902V000029	
2BPS196912V000010	2BPS196942V000020	2BPS196972V000030	

1970 Model

2BPS197002V000001	2BPS197062V000018	2BPS197062V000035	2BPS197062V000052
2BPS197022V000002	2BPS197082V000019	2BPS197082V000036	2BPS197082V000053
2BPS197042V000003	2BPS197042V000020	2BPS1970X2V000037	2BPS1970X2V000054
2BPS197062V000004	2BPS197062V000021	2BPS197012V000038	2BPS197012V000055
2BPS197082V000005	2BPS197082V000022	2BPS197032V000039	2BPS197032V000056
2BPS1970X2V000006	2BPS1970X2V000023	2BPS1970X2V000040	2BPS197052V000057
2BPS197012V000007	2BPS197012V000024	2BPS197012V000041	2BPS197072V000058
2BPS197032V000008	2BPS197032V000025	2BPS197032V000042	2BPS197092V000059
2BPS197052V000009	2BPS197052V000026	2BPS197052V000043	2BPS197052V000060
2BPS197012V000010	2BPS197072V000027	2BPS197072V000044	2BPS197072V000061
2BPS197032V000011	2BPS197092V000028	2BPS197092V000045	2BPS197092V000062
2BPS197052V000012	2BPS197002V000029	2BPS197002V000046	2BPS197002V000063
2BPS197072V000013	2BPS197072V000030	2BPS197022V000047	2BPS197022V000064
2BPS197092V000014	2BPS197092V000031	2BPS197042V000048	2BPS197042V000065
2BPS197002V000015	2BPS197002V000032	2BPS197062V000049	2BPS197062V000066
2BPS197022V000016	2BPS197022V000033	2BPS197022V000050	2BPS197082V000067
2BPS197042V000017	2BPS197042V000034	2BPS197042V000051	

1971 Model

2BPS1971X2V000001	2BPS197192V000006	2BPS197122V000011	2BPS197112V000016
2BPS197112V000002	2BPS197102V000007	2BPS197142V000012	2BPS197132V000017
2BPS197132V000003	2BPS197122V000008	2BPS197162V000013	2BPS197152V000018
2BPS197152V000004	2BPS197142V000009	2BPS197182V000014	
2BPS197172V000005	2BPS197102V000010	2BPS1971X2V000015	

1972 Model

2BPS197292V000001	2BPS197232V000012	2BPS1972X2V000024	2BPS197242V000035
2BPS197202V000002	2BPS197252V000013	2BPS197212V000025	2BPS197262V000036
2BPS197222V000003	2BPS197272V000014	2BPS197232V000026	2BPS197282V000037
2BPS197242V000004	2BPS197292V000015	2BPS197252V000027	2BPS1972X2V000038
2BPS197262V000005	2BPS197202V000016	2BPS197272V000028	2BPS197212V000039
2BPS197282V000006	2BPS197222V000017	2BPS197292V000029	2BPS197282V000040
2BPS1972X2V000007	2BPS197242V000018	2BPS197252V000030	2BPS1972X2V000041
2BPS197212V000008	2BPS197262V000019	2BPS197272V000031	2BPS197212V000042
2BPS197232V000009	2BPS197222V000020	2BPS197292V000032	2BPS197232V000043
2BPS1972X2V000010	2BPS197262V000022	2BPS197202V000033	
2BPS197212V000011	2BPS197282V000023	2BPS197222V000034	

2009 Model

<u>2BPS2009X2V000136</u>	<u>2BPS200972V000174</u>	<u>2BPS200902V000212</u>	<u>2BPS200982V000250</u>
<u>2BPS200912V000137</u>	<u>2BPS200992V000175</u>	<u>2BPS200922V000213</u>	<u>2BPS2009X2V000251</u>
<u>2BPS200932V000138</u>	<u>2BPS200902V000176</u>	<u>2BPS200942V000214</u>	<u>2BPS200912V000252</u>
<u>2BPS200952V000139</u>	<u>2BPS200922V000177</u>	<u>2BPS200962V000215</u>	<u>2BPS200932V000253</u>
<u>2BPS200912V000140</u>	<u>2BPS200942V000178</u>	<u>2BPS200982V000216</u>	<u>2BPS200952V000254</u>
<u>2BPS200932V000141</u>	<u>2BPS200962V000179</u>	<u>2BPS2009X2V000217</u>	<u>2BPS200972V000255</u>
<u>2BPS200952V000142</u>	<u>2BPS200922V000180</u>	<u>2BPS200912V000218</u>	<u>2BPS200992V000256</u>
<u>2BPS200972V000143</u>	<u>2BPS200942V000181</u>	<u>2BPS200932V000219</u>	<u>2BPS200902V000257</u>
<u>2BPS200992V000144</u>	<u>2BPS200962V000182</u>	<u>2BPS2009X2V000220</u>	<u>2BPS200922V000258</u>
<u>2BPS200902V000145</u>	<u>2BPS200982V000183</u>	<u>2BPS200912V000221</u>	<u>2BPS200942V000259</u>
<u>2BPS200922V000146</u>	<u>2BPS2009X2V000184</u>	<u>2BPS200932V000222</u>	<u>2BPS200902V000260</u>
<u>2BPS200942V000147</u>	<u>2BPS200912V000185</u>	<u>2BPS200952V000223</u>	<u>2BPS200922V000261</u>
<u>2BPS200962V000148</u>	<u>2BPS200932V000186</u>	<u>2BPS200972V000224</u>	<u>2BPS200942V000262</u>
<u>2BPS200982V000149</u>	<u>2BPS200952V000187</u>	<u>2BPS200992V000225</u>	<u>2BPS200962V000263</u>
<u>2BPS200942V000150</u>	<u>2BPS200972V000188</u>	<u>2BPS200902V000226</u>	<u>2BPS200982V000264</u>
<u>2BPS200962V000151</u>	<u>2BPS200992V000189</u>	<u>2BPS200922V000227</u>	<u>2BPS2009X2V000265</u>
<u>2BPS200982V000152</u>	<u>2BPS200952V000190</u>	<u>2BPS200942V000228</u>	<u>2BPS200912V000266</u>
<u>2BPS2009X2V000153</u>	<u>2BPS200972V000191</u>	<u>2BPS200962V000229</u>	<u>2BPS200932V000267</u>
<u>2BPS200912V000154</u>	<u>2BPS200992V000192</u>	<u>2BPS200922V000230</u>	<u>2BPS200952V000268</u>
<u>2BPS200932V000155</u>	<u>2BPS200902V000193</u>	<u>2BPS200942V000231</u>	<u>2BPS200972V000269</u>
<u>2BPS200952V000156</u>	<u>2BPS200922V000194</u>	<u>2BPS200962V000232</u>	<u>2BPS200932V000270</u>
<u>2BPS200972V000157</u>	<u>2BPS200942V000195</u>	<u>2BPS200982V000233</u>	<u>2BPS200952V000271</u>
<u>2BPS200992V000158</u>	<u>2BPS200962V000196</u>	<u>2BPS2009X2V000234</u>	<u>2BPS200972V000272</u>
<u>2BPS200902V000159</u>	<u>2BPS200982V000197</u>	<u>2BPS200912V000235</u>	<u>2BPS200992V000273</u>
<u>2BPS200972V000160</u>	<u>2BPS2009X2V000198</u>	<u>2BPS200932V000236</u>	<u>2BPS200902V000274</u>
<u>2BPS200992V000161</u>	<u>2BPS200912V000199</u>	<u>2BPS200952V000237</u>	<u>2BPS200922V000275</u>
<u>2BPS200902V000162</u>	<u>2BPS200942V000200</u>	<u>2BPS200972V000238</u>	<u>2BPS200942V000276</u>
<u>2BPS200922V000163</u>	<u>2BPS200962V000201</u>	<u>2BPS200992V000239</u>	<u>2BPS200962V000277</u>
<u>2BPS200942V000164</u>	<u>2BPS200982V000202</u>	<u>2BPS200952V000240</u>	<u>2BPS200982V000278</u>
<u>2BPS200962V000165</u>	<u>2BPS2009X2V000203</u>	<u>2BPS200972V000241</u>	<u>2BPS2009X2V000279</u>
<u>2BPS200982V000166</u>	<u>2BPS200912V000204</u>	<u>2BPS200992V000242</u>	<u>2BPS200962V000280</u>
<u>2BPS2009X2V000167</u>	<u>2BPS200932V000205</u>	<u>2BPS200902V000243</u>	<u>2BPS200982V000281</u>
<u>2BPS200912V000168</u>	<u>2BPS200952V000206</u>	<u>2BPS200922V000244</u>	<u>2BPS2009X2V000282</u>
<u>2BPS200932V000169</u>	<u>2BPS200972V000207</u>	<u>2BPS200942V000245</u>	<u>2BPS200912V000283</u>
<u>2BPS2009X2V000170</u>	<u>2BPS200992V000208</u>	<u>2BPS200962V000246</u>	<u>2BPS200932V000284</u>
<u>2BPS200912V000171</u>	<u>2BPS200902V000209</u>	<u>2BPS200982V000247</u>	<u>2BPS200952V000285</u>
<u>2BPS200932V000172</u>	<u>2BPS200972V000210</u>	<u>2BPS2009X2V000248</u>	
<u>2BPS200952V000173</u>	<u>2BPS200992V000211</u>	<u>2BPS200912V000249</u>	

2010 Model

NOTE: Many serial numbers have been added to the list of involved units of this model.

2BPS201012V000008	2BPS201092V000144	2BPS201012V000252	<u>2BPS201022V000292</u>
2BPS2010X2V000010	2BPS201002V000145	2BPS201032V000253	<u>2BPS201042V000293</u>
2BPS201052V000013	2BPS201042V000147	2BPS201052V000254	<u>2BPS201062V000294</u>
2BPS201092V000015	2BPS201032V000155	2BPS201072V000255	<u>2BPS201082V000295</u>
2BPS201022V000017	2BPS201002V000162	2BPS201092V000256	<u>2BPS2010X2V000296</u>
2BPS201062V000019	2BPS2010X2V000170	2BPS201002V000257	<u>2BPS201012V000297</u>
2BPS2010X2V000024	2BPS201062V000182	2BPS201022V000258	<u>2BPS201032V000298</u>
2BPS201032V000026	2BPS201052V000190	2BPS201042V000259	<u>2BPS201052V000299</u>
2BPS201072V000031	2BPS201002V000193	2BPS201002V000260	<u>2BPS201082V000300</u>
2BPS201092V000032	2BPS2010X2V000198	2BPS201022V000261	<u>2BPS2010X2V000301</u>
2BPS201022V000034	2BPS201042V000200	<u>2BPS201042V000262</u>	<u>2BPS201012V000302</u>
2BPS201042V000035	2BPS201042V000214	<u>2BPS201062V000263</u>	<u>2BPS201032V000303</u>
2BPS201062V000036	2BPS201062V000215	<u>2BPS201082V000264</u>	<u>2BPS201052V000304</u>
2BPS201082V000037	2BPS201012V000218	<u>2BPS2010X2V000265</u>	<u>2BPS201072V000305</u>
2BPS2010X2V000038	2BPS201032V000219	<u>2BPS201012V000266</u>	<u>2BPS201092V000306</u>
2BPS201012V000039	2BPS2010X2V000220	<u>2BPS201032V000267</u>	<u>2BPS201002V000307</u>
2BPS201082V000040	2BPS201052V000223	<u>2BPS201052V000268</u>	<u>2BPS201022V000308</u>
2BPS2010X2V000041	2BPS201072V000224	<u>2BPS201072V000269</u>	<u>2BPS201042V000309</u>
2BPS201052V000044	2BPS201022V000227	<u>2BPS201032V000270</u>	<u>2BPS201002V000310</u>
2BPS201072V000045	2BPS201022V000230	<u>2BPS201052V000271</u>	<u>2BPS201022V000311</u>
2BPS201092V000046	2BPS201042V000231	<u>2BPS201072V000272</u>	<u>2BPS201042V000312</u>
2BPS201002V000047	2BPS201062V000232	<u>2BPS201092V000273</u>	<u>2BPS201062V000313</u>
2BPS201022V000048	2BPS201082V000233	<u>2BPS201002V000274</u>	<u>2BPS201082V000314</u>
2BPS201042V000049	2BPS2010X2V000234	<u>2BPS201022V000275</u>	<u>2BPS2010X2V000315</u>
2BPS201002V000050	2BPS201012V000235	<u>2BPS201042V000276</u>	<u>2BPS201012V000316</u>
2BPS201022V000051	2BPS201032V000236	<u>2BPS201062V000277</u>	<u>2BPS201032V000317</u>
2BPS201042V000052	2BPS201052V000237	<u>2BPS201082V000278</u>	<u>2BPS201052V000318</u>
2BPS201062V000053	2BPS201072V000238	<u>2BPS2010X2V000279</u>	<u>2BPS201072V000319</u>
2BPS2010X2V000055	2BPS201092V000239	<u>2BPS201062V000280</u>	<u>2BPS201032V000320</u>
2BPS201032V000057	2BPS201052V000240	<u>2BPS201082V000281</u>	<u>2BPS201052V000321</u>
2BPS201022V000065	2BPS201072V000241	<u>2BPS2010X2V000282</u>	<u>2BPS201072V000322</u>
2BPS2010X2V000069	2BPS201092V000242	<u>2BPS201012V000283</u>	<u>2BPS201092V000323</u>
2BPS201062V000070	2BPS201002V000243	<u>2BPS201032V000284</u>	<u>2BPS201002V000324</u>
2BPS201002V000081	2BPS201022V000244	<u>2BPS201052V000285</u>	<u>2BPS201022V000325</u>
2BPS201082V000085	2BPS201062V000246	<u>2BPS201072V000286</u>	<u>2BPS201042V000326</u>
2BPS201072V000109	2BPS201082V000247	<u>2BPS201092V000287</u>	<u>2BPS201062V000327</u>
2BPS201022V000132	2BPS2010X2V000248	<u>2BPS201002V000288</u>	<u>2BPS201082V000328</u>
2BPS201052V000139	2BPS201012V000249	<u>2BPS201022V000289</u>	<u>2BPS2010X2V000329</u>
2BPS201032V000141	2BPS201082V000250	<u>2BPS201092V000290</u>	<u>2BPS201062V000330</u>
2BPS201052V000142	2BPS2010X2V000251	<u>2BPS201002V000291</u>	<u>2BPS201082V000331</u>

2010 Model (cont'd)

<u>2BPS2010X2V000332</u>	<u>2BPS201042V000374</u>	<u>2BPS201052V000416</u>	<u>2BPS2010X2V000458</u>
<u>2BPS201012V000333</u>	<u>2BPS201062V000375</u>	<u>2BPS201072V000417</u>	<u>2BPS201012V000459</u>
<u>2BPS201032V000334</u>	<u>2BPS201082V000376</u>	<u>2BPS201092V000418</u>	<u>2BPS201082V000460</u>
<u>2BPS201052V000335</u>	<u>2BPS2010X2V000377</u>	<u>2BPS201002V000419</u>	<u>2BPS2010X2V000461</u>
<u>2BPS201072V000336</u>	<u>2BPS201012V000378</u>	<u>2BPS201072V000420</u>	<u>2BPS201012V000462</u>
<u>2BPS201092V000337</u>	<u>2BPS201032V000379</u>	<u>2BPS201092V000421</u>	<u>2BPS201032V000463</u>
<u>2BPS201002V000338</u>	<u>2BPS2010X2V000380</u>	<u>2BPS201002V000422</u>	<u>2BPS201052V000464</u>
<u>2BPS201022V000339</u>	<u>2BPS201012V000381</u>	<u>2BPS201022V000423</u>	<u>2BPS201072V000465</u>
<u>2BPS201092V000340</u>	<u>2BPS201032V000382</u>	<u>2BPS201042V000424</u>	<u>2BPS201092V000466</u>
<u>2BPS201002V000341</u>	<u>2BPS201052V000383</u>	<u>2BPS201062V000425</u>	<u>2BPS201002V000467</u>
<u>2BPS201022V000342</u>	<u>2BPS201072V000384</u>	<u>2BPS201082V000426</u>	<u>2BPS201022V000468</u>
<u>2BPS201042V000343</u>	<u>2BPS201092V000385</u>	<u>2BPS2010X2V000427</u>	<u>2BPS201042V000469</u>
<u>2BPS201062V000344</u>	<u>2BPS201002V000386</u>	<u>2BPS201012V000428</u>	<u>2BPS201002V000470</u>
<u>2BPS201082V000345</u>	<u>2BPS201022V000387</u>	<u>2BPS201032V000429</u>	<u>2BPS201022V000471</u>
<u>2BPS2010X2V000346</u>	<u>2BPS201042V000388</u>	<u>2BPS2010X2V000430</u>	<u>2BPS201042V000472</u>
<u>2BPS201012V000347</u>	<u>2BPS201062V000389</u>	<u>2BPS201012V000431</u>	<u>2BPS201062V000473</u>
<u>2BPS201032V000348</u>	<u>2BPS201022V000390</u>	<u>2BPS201032V000432</u>	<u>2BPS201082V000474</u>
<u>2BPS201052V000349</u>	<u>2BPS201042V000391</u>	<u>2BPS201052V000433</u>	<u>2BPS2010X2V000475</u>
<u>2BPS201012V000350</u>	<u>2BPS201062V000392</u>	<u>2BPS201072V000434</u>	<u>2BPS201012V000476</u>
<u>2BPS201032V000351</u>	<u>2BPS201082V000393</u>	<u>2BPS201092V000435</u>	<u>2BPS201032V000477</u>
<u>2BPS201052V000352</u>	<u>2BPS2010X2V000394</u>	<u>2BPS201002V000436</u>	<u>2BPS201052V000478</u>
<u>2BPS201072V000353</u>	<u>2BPS201012V000395</u>	<u>2BPS201022V000437</u>	<u>2BPS201072V000479</u>
<u>2BPS201092V000354</u>	<u>2BPS201032V000396</u>	<u>2BPS201042V000438</u>	<u>2BPS201032V000480</u>
<u>2BPS201002V000355</u>	<u>2BPS201052V000397</u>	<u>2BPS201062V000439</u>	<u>2BPS201052V000481</u>
<u>2BPS201022V000356</u>	<u>2BPS201072V000398</u>	<u>2BPS201022V000440</u>	<u>2BPS201072V000482</u>
<u>2BPS201042V000357</u>	<u>2BPS201092V000399</u>	<u>2BPS201042V000441</u>	<u>2BPS201092V000483</u>
<u>2BPS201062V000358</u>	<u>2BPS201012V000400</u>	<u>2BPS201062V000442</u>	<u>2BPS201002V000484</u>
<u>2BPS201082V000359</u>	<u>2BPS201032V000401</u>	<u>2BPS201082V000443</u>	<u>2BPS201022V000485</u>
<u>2BPS201042V000360</u>	<u>2BPS201052V000402</u>	<u>2BPS2010X2V000444</u>	<u>2BPS201042V000486</u>
<u>2BPS201062V000361</u>	<u>2BPS201072V000403</u>	<u>2BPS201012V000445</u>	<u>2BPS201062V000487</u>
<u>2BPS201082V000362</u>	<u>2BPS201092V000404</u>	<u>2BPS201032V000446</u>	<u>2BPS201082V000488</u>
<u>2BPS2010X2V000363</u>	<u>2BPS201002V000405</u>	<u>2BPS201052V000447</u>	<u>2BPS2010X2V000489</u>
<u>2BPS201012V000364</u>	<u>2BPS201022V000406</u>	<u>2BPS201072V000448</u>	<u>2BPS201062V000490</u>
<u>2BPS201032V000365</u>	<u>2BPS201042V000407</u>	<u>2BPS201092V000449</u>	<u>2BPS201082V000491</u>
<u>2BPS201052V000366</u>	<u>2BPS201062V000408</u>	<u>2BPS201052V000450</u>	<u>2BPS2010X2V000492</u>
<u>2BPS201072V000367</u>	<u>2BPS201082V000409</u>	<u>2BPS201072V000451</u>	<u>2BPS201012V000493</u>
<u>2BPS201092V000368</u>	<u>2BPS201042V000410</u>	<u>2BPS201092V000452</u>	<u>2BPS201032V000494</u>
<u>2BPS201002V000369</u>	<u>2BPS201062V000411</u>	<u>2BPS201002V000453</u>	<u>2BPS201052V000495</u>
<u>2BPS201072V000370</u>	<u>2BPS201082V000412</u>	<u>2BPS201022V000454</u>	<u>2BPS201072V000496</u>
<u>2BPS201092V000371</u>	<u>2BPS2010X2V000413</u>	<u>2BPS201042V000455</u>	<u>2BPS201092V000497</u>
<u>2BPS201002V000372</u>	<u>2BPS201012V000414</u>	<u>2BPS201062V000456</u>	<u>2BPS201002V000498</u>
<u>2BPS201022V000373</u>	<u>2BPS201032V000415</u>	<u>2BPS201082V000457</u>	<u>2BPS201022V000499</u>

2010 Model (cont'd)

<u>2BPS201052V000500</u>	<u>2BPS201032V000513</u>	<u>2BPS201012V000526</u>	<u>2BPS2010X2V000539</u>
<u>2BPS201072V000501</u>	<u>2BPS201052V000514</u>	<u>2BPS201032V000527</u>	<u>2BPS201062V000540</u>
<u>2BPS201092V000502</u>	<u>2BPS201072V000515</u>	<u>2BPS201052V000528</u>	<u>2BPS201082V000541</u>
<u>2BPS201002V000503</u>	<u>2BPS201092V000516</u>	<u>2BPS201072V000529</u>	<u>2BPS2010X2V000542</u>
<u>2BPS201022V000504</u>	<u>2BPS201002V000517</u>	<u>2BPS201032V000530</u>	<u>2BPS201012V000543</u>
<u>2BPS201042V000505</u>	<u>2BPS201022V000518</u>	<u>2BPS201052V000531</u>	<u>2BPS201032V000544</u>
<u>2BPS201062V000506</u>	<u>2BPS201042V000519</u>	<u>2BPS201072V000532</u>	<u>2BPS201052V000545</u>
<u>2BPS201082V000507</u>	<u>2BPS201002V000520</u>	<u>2BPS201092V000533</u>	<u>2BPS201072V000546</u>
<u>2BPS2010X2V000508</u>	<u>2BPS201022V000521</u>	<u>2BPS201002V000534</u>	<u>2BPS201092V000547</u>
<u>2BPS201012V000509</u>	<u>2BPS201042V000522</u>	<u>2BPS201022V000535</u>	<u>2BPS201002V000548</u>
<u>2BPS201082V000510</u>	<u>2BPS201062V000523</u>	<u>2BPS201042V000536</u>	<u>2BPS201022V000549</u>
<u>2BPS2010X2V000511</u>	<u>2BPS201082V000524</u>	<u>2BPS201062V000537</u>	<u>2BPS201092V000550</u>
<u>2BPS201012V000512</u>	<u>2BPS2010X2V000525</u>	<u>2BPS201082V000538</u>	

2190 Model

2BPS219062V000001	2BPS2190X2V000048	2BPS219082V000100	2BPS219022V000111
2BPS219082V000002	2BPS219012V000052	2BPS2190X2V000101	2BPS219042V000112
2BPS219072V000007	2BPS219052V000054	2BPS219012V000102	2BPS219062V000113
2BPS219002V000012	2BPS219002V000060	2BPS219032V000103	2BPS219082V000114
2BPS219022V000030	2BPS219062V000080	2BPS219052V000104	2BPS2190X2V000115
2BPS219072V000041	2BPS219052V000085	2BPS219072V000105	2BPS219012V000116
2BPS219042V000045	2BPS219092V000087	2BPS219002V000107	
2BPS219082V000047	2BPS219052V000099	2BPS219002V000110	

2193 Model

2BPS219352V000002	2BPS219392V000021	2BPS219332V000046	2BPS219332V000063
2BPS219372V000003	2BPS219302V000022	2BPS219352V000047	2BPS219352V000064
2BPS219392V000004	2BPS219322V000023	2BPS219372V000048	2BPS219372V000065
2BPS219302V000005	2BPS219342V000024	2BPS219392V000049	2BPS219392V000066
2BPS219322V000006	2BPS219362V000025	2BPS219352V000050	2BPS219302V000067
2BPS219342V000007	2BPS219382V000026	2BPS219372V000051	2BPS219322V000068
2BPS219362V000008	2BPS219312V000028	2BPS219392V000052	2BPS219342V000069
2BPS219382V000009	2BPS219332V000029	2BPS219302V000053	2BPS219302V000070
2BPS219342V000010	2BPS2193X2V000030	2BPS219322V000054	2BPS219322V000071
2BPS219362V000011	2BPS219312V000031	2BPS219342V000055	2BPS219342V000072
2BPS219382V000012	2BPS219332V000032	2BPS219362V000056	2BPS219362V000073
2BPS2193X2V000013	2BPS219352V000033	2BPS219382V000057	2BPS219382V000074
2BPS219312V000014	2BPS219392V000035	2BPS2193X2V000058	2BPS2193X2V000075
2BPS219332V000015	2BPS219302V000036	2BPS219312V000059	2BPS219312V000076
2BPS219352V000016	2BPS219322V000037	2BPS219382V000060	2BPS219352V000078
2BPS219372V000017	2BPS219342V000041	2BPS2193X2V000061	2BPS219372V000079
2BPS219372V000020	2BPS219312V000045	2BPS219312V000062	2BPS219352V000081

2193 Model (cont'd)

2BPS219372V000082	2BPS219382V000088	2BPS219332V000094	2BPS219392V000102
2BPS219392V000083	2BPS219362V000090	2BPS219372V000096	2BPS2193X2V000108
2BPS219302V000084	2BPS219382V000091	2BPS219392V000097	
2BPS219322V000085	2BPS2193X2V000092	2BPS219302V000098	
2BPS219342V000086	2BPS219312V000093	2BPS219352V000100	

2196 Model

2BPS219602V000001	2BPS219652V000026	2BPS219622V000050	2BPS219652V000074
2BPS219642V000003	2BPS219672V000027	2BPS219662V000052	2BPS219672V000075
2BPS219662V000004	2BPS219692V000028	2BPS219682V000053	2BPS219692V000076
2BPS219682V000005	2BPS219602V000029	2BPS2196X2V000054	2BPS219602V000077
2BPS2196X2V000006	2BPS219672V000030	2BPS219612V000055	2BPS219622V000078
2BPS219612V000007	2BPS219692V000031	2BPS219632V000056	2BPS219642V000079
2BPS219632V000008	2BPS219602V000032	2BPS219652V000057	2BPS219602V000080
2BPS219652V000009	2BPS219622V000033	2BPS219672V000058	2BPS219622V000081
2BPS219612V000010	2BPS219662V000035	2BPS219692V000059	2BPS219642V000082
2BPS219632V000011	2BPS219682V000036	2BPS219652V000060	2BPS219662V000083
2BPS219652V000012	2BPS2196X2V000037	2BPS219672V000061	2BPS219682V000084
2BPS219672V000013	2BPS219612V000038	2BPS219692V000062	2BPS2196X2V000085
2BPS219692V000014	2BPS219632V000039	2BPS219602V000063	2BPS219612V000086
2BPS219602V000015	2BPS2196X2V000040	2BPS219622V000064	2BPS219632V000087
2BPS219622V000016	2BPS219612V000041	2BPS219642V000065	2BPS219652V000088
2BPS219642V000017	2BPS219632V000042	2BPS219662V000066	2BPS219672V000089
2BPS219662V000018	2BPS219652V000043	2BPS219682V000067	2BPS219632V000090
2BPS219682V000019	2BPS219672V000044	2BPS2196X2V000068	2BPS219652V000091
2BPS219642V000020	2BPS219692V000045	2BPS219612V000069	2BPS219672V000092
2BPS219662V000021	2BPS219602V000046	2BPS219682V000070	2BPS219692V000093
2BPS2196X2V000023	2BPS219622V000047	2BPS2196X2V000071	2BPS219602V000094
2BPS219612V000024	2BPS219642V000048	2BPS219612V000072	
2BPS219632V000025	2BPS219662V000049	2BPS219632V000073	

2197 Model

2BPS2197X2V000001	2BPS219722V000011	2BPS219752V000021	2BPS219782V000031
2BPS219712V000002	2BPS219742V000012	2BPS219772V000022	2BPS2197X2V000032
2BPS219732V000003	2BPS219762V000013	2BPS219792V000023	2BPS219712V000033
2BPS219752V000004	2BPS219782V000014	2BPS219702V000024	2BPS219732V000034
2BPS219772V000005	2BPS2197X2V000015	2BPS219722V000025	2BPS219752V000035
2BPS219792V000006	2BPS219712V000016	2BPS219742V000026	2BPS219772V000036
2BPS219702V000007	2BPS219732V000017	2BPS219762V000027	2BPS219792V000037
2BPS219722V000008	2BPS219752V000018	2BPS219782V000028	2BPS219702V000038
2BPS219742V000009	2BPS219772V000019	2BPS2197X2V000029	2BPS219722V000039
2BPS219702V000010	2BPS219732V000020	2BPS219762V000030	2BPS219792V000040

2197 Model (cont'd)

2BPS219702V000041	2BPS219772V000053	2BPS219752V000066	2BPS219732V000079
2BPS219722V000042	2BPS219792V000054	2BPS219772V000067	2BPS2197X2V000080
2BPS219742V000043	2BPS219702V000055	2BPS219792V000068	2BPS219712V000081
2BPS219762V000044	2BPS219722V000056	2BPS219702V000069	2BPS219732V000082
2BPS219782V000045	2BPS219742V000057	2BPS219772V000070	2BPS219752V000083
2BPS2197X2V000046	2BPS219762V000058	2BPS219792V000071	2BPS219772V000084
2BPS219712V000047	2BPS219782V000059	2BPS219702V000072	2BPS219792V000085
2BPS219732V000048	2BPS219742V000060	2BPS219722V000073	2BPS219702V000086
2BPS219752V000049	2BPS219782V000062	2BPS219742V000074	2BPS219722V000087
2BPS219712V000050	2BPS2197X2V000063	2BPS219762V000075	2BPS219742V000088
2BPS219732V000051	2BPS219712V000064	2BPS219782V000076	2BPS219762V000089
2BPS219752V000052	2BPS219732V000065	2BPS219712V000078	

2198 Model

2BPS219892V000001	2BPS219842V000018	2BPS219802V000033	2BPS219822V000048
2BPS219802V000002	2BPS219862V000019	2BPS219822V000034	2BPS219842V000049
2BPS219822V000003	2BPS219822V000020	2BPS219842V000035	2BPS219802V000050
2BPS219842V000004	2BPS219842V000021	2BPS219862V000036	2BPS219822V000051
2BPS219862V000005	2BPS219862V000022	2BPS219882V000037	2BPS219842V000052
2BPS2198X2V000007	2BPS219882V000023	2BPS2198X2V000038	2BPS219862V000053
2BPS219832V000009	2BPS2198X2V000024	2BPS219812V000039	2BPS219882V000054
2BPS2198X2V000010	2BPS219812V000025	2BPS219882V000040	2BPS2198X2V000055
2BPS219812V000011	2BPS219832V000026	2BPS2198X2V000041	2BPS219812V000056
2BPS219832V000012	2BPS219852V000027	2BPS219812V000042	2BPS219832V000057
2BPS219852V000013	2BPS219872V000028	2BPS219832V000043	2BPS219852V000058
2BPS219872V000014	2BPS219892V000029	2BPS219852V000044	2BPS219872V000059
2BPS219892V000015	2BPS219852V000030	2BPS219872V000045	
2BPS219802V000016	2BPS219872V000031	2BPS219892V000046	
2BPS219822V000017	2BPS219892V000032	2BPS219802V000047	

2199 Model

2BPS219982V000001	2BPS219942V000013	2BPS219992V000024	2BPS219932V000035
2BPS2199X2V000002	2BPS219962V000014	2BPS219902V000025	2BPS219952V000036
2BPS219912V000003	2BPS219982V000015	2BPS219922V000026	2BPS219972V000037
2BPS219932V000004	2BPS2199X2V000016	2BPS219942V000027	2BPS219992V000038
2BPS219952V000005	2BPS219912V000017	2BPS219962V000028	2BPS219902V000039
2BPS219992V000007	2BPS219932V000018	2BPS219982V000029	2BPS219972V000040
2BPS219902V000008	2BPS219952V000019	2BPS219942V000030	2BPS219992V000041
2BPS219922V000009	2BPS219912V000020	2BPS219962V000031	2BPS219902V000042
2BPS219992V000010	2BPS219932V000021	2BPS219982V000032	2BPS219922V000043
2BPS219902V000011	2BPS219952V000022	2BPS2199X2V000033	2BPS219942V000044
2BPS219922V000012	2BPS219972V000023	2BPS219912V000034	2BPS219962V000045

2199 Model (cont'd)

2BPS219982V000046	2BPS219992V000055	2BPS2199X2V000064	2BPS219902V000073
2BPS2199X2V000047	2BPS219902V000056	2BPS219912V000065	2BPS219922V000074
2BPS219912V000048	2BPS219922V000057	2BPS219932V000066	2BPS219942V000075
2BPS219932V000049	2BPS219942V000058	2BPS219952V000067	2BPS219962V000076
2BPS2199X2V000050	2BPS219962V000059	2BPS219972V000068	2BPS219982V000077
2BPS219912V000051	2BPS219922V000060	2BPS219992V000069	2BPS2199X2V000078
2BPS219932V000052	2BPS219942V000061	2BPS219952V000070	
2BPS219952V000053	2BPS219962V000062	2BPS219972V000071	
2BPS219972V000054	2BPS219982V000063	2BPS219992V000072	

2200 Model

2BPS220022V000001	2BPS220002V000014	2BPS220092V000027	2BPS220012V000040
2BPS220042V000002	2BPS220022V000015	2BPS220002V000028	2BPS220032V000041
2BPS220062V000003	2BPS220042V000016	2BPS220022V000029	2BPS220052V000042
2BPS220082V000004	2BPS220062V000017	2BPS220092V000030	2BPS220072V000043
2BPS2200X2V000005	2BPS220082V000018	2BPS220002V000031	2BPS220092V000044
2BPS220012V000006	2BPS2200X2V000019	2BPS220022V000032	2BPS220002V000045
2BPS220032V000007	2BPS220062V000020	2BPS220042V000033	2BPS220022V000046
2BPS220052V000008	2BPS220082V000021	2BPS220062V000034	2BPS220042V000047
2BPS220072V000009	2BPS2200X2V000022	2BPS220082V000035	2BPS220062V000048
2BPS220032V000010	2BPS220012V000023	2BPS2200X2V000036	2BPS220082V000049
2BPS220052V000011	2BPS220032V000024	2BPS220012V000037	
2BPS220072V000012	2BPS220052V000025	2BPS220032V000038	
2BPS220092V000013	2BPS220072V000026	2BPS220052V000039	

2205 Model

2BPS220582V000001	2BPS220502V000011	2BPS220532V000021	2BPS220562V000031
2BPS2205X2V000002	2BPS220522V000012	2BPS220552V000022	2BPS220582V000032
2BPS220512V000003	2BPS220542V000013	2BPS220572V000023	2BPS2205X2V000033
2BPS220532V000004	2BPS220562V000014	2BPS220592V000024	2BPS220512V000034
2BPS220552V000005	2BPS220582V000015	2BPS220502V000025	2BPS220532V000035
2BPS220572V000006	2BPS2205X2V000016	2BPS220522V000026	2BPS220552V000036
2BPS220592V000007	2BPS220512V000017	2BPS220542V000027	2BPS220572V000037
2BPS220502V000008	2BPS220532V000018	2BPS220562V000028	2BPS220592V000038
2BPS220522V000009	2BPS220552V000019	2BPS220582V000029	2BPS220502V000039
2BPS220592V000010	2BPS220512V000020	2BPS220542V000030	2BPS220572V000040

2216 Model

2BPS221682V000054	2BPS221612V000087	2BPS221692V000130	2BPS221642V000147
2BPS221602V000081	2BPS221622V000101	2BPS2216X2V000136	2BPS221682V000152
2BPS221642V000083	2BPS221672V000126	2BPS221632V000138	2BPS221632V000155

2216 Model (cont'd)

2BPS221662V000165	2BPS221602V000212	2BPS221672V000238	2BPS221662V000263
2BPS221632V000169	2BPS221622V000213	2BPS221692V000239	2BPS221682V000264
2BPS221652V000173	2BPS221642V000214	2BPS221652V000240	2BPS2216X2V000265
2BPS221672V000174	2BPS221662V000215	2BPS221672V000241	2BPS221612V000266
2BPS221692V000175	2BPS221682V000216	2BPS221692V000242	2BPS221632V000267
2BPS221602V000176	2BPS2216X2V000217	2BPS221602V000243	2BPS221652V000268
2BPS221642V000181	2BPS221612V000218	2BPS221622V000244	2BPS221672V000269
2BPS221612V000185	2BPS221632V000219	2BPS221642V000245	2BPS221632V000270
2BPS221692V000189	2BPS221612V000221	2BPS221662V000246	2BPS221652V000271
2BPS221602V000193	2BPS221632V000222	2BPS221682V000247	2BPS221672V000272
2BPS221622V000194	2BPS221652V000223	2BPS2216X2V000248	2BPS221692V000273
2BPS221642V000195	2BPS221672V000224	2BPS221612V000249	2BPS221602V000274
2BPS221662V000196	2BPS221692V000225	2BPS221682V000250	2BPS221622V000275
2BPS2216X2V000198	2BPS221602V000226	2BPS2216X2V000251	2BPS221642V000276
2BPS221612V000199	2BPS221622V000227	2BPS221612V000252	2BPS221662V000277
2BPS221682V000202	2BPS221642V000228	2BPS221632V000253	2BPS221682V000278
2BPS2216X2V000203	2BPS221662V000229	2BPS221652V000254	2BPS2216X2V000279
2BPS221612V000204	2BPS221622V000230	2BPS221672V000255	2BPS221662V000280
2BPS221632V000205	2BPS221642V000231	2BPS221692V000256	2BPS221682V000281
2BPS221652V000206	2BPS221662V000232	2BPS221602V000257	2BPS2216X2V000282
2BPS221672V000207	2BPS221682V000233	2BPS221622V000258	2BPS221612V000283
2BPS221692V000208	2BPS2216X2V000234	2BPS221642V000259	2BPS221632V000284
2BPS221602V000209	2BPS221612V000235	2BPS221602V000260	2BPS221652V000285
2BPS221672V000210	2BPS221632V000236	2BPS221622V000261	
2BPS221692V000211	2BPS221652V000237	2BPS221642V000262	

2218 Model

2BPS221892V000002	2BPS221802V000017	2BPS221822V000035	2BPS221892V000050
2BPS221802V000003	2BPS221822V000018	2BPS221842V000036	2BPS221802V000051
2BPS221822V000004	2BPS221842V000019	2BPS221862V000037	2BPS221822V000052
2BPS221842V000005	2BPS221802V000020	2BPS221882V000038	2BPS221842V000053
2BPS221862V000006	2BPS221822V000021	2BPS2218X2V000039	2BPS221862V000054
2BPS221882V000007	2BPS221862V000023	2BPS221862V000040	2BPS221882V000055
2BPS2218X2V000008	2BPS221882V000024	2BPS221882V000041	2BPS2218X2V000056
2BPS221812V000009	2BPS2218X2V000025	2BPS2218X2V000042	2BPS221812V000057
2BPS221882V000010	2BPS221812V000026	2BPS221812V000043	2BPS221872V000063
2BPS2218X2V000011	2BPS221832V000027	2BPS221832V000044	2BPS221802V000065
2BPS221812V000012	2BPS221852V000028	2BPS221852V000045	2BPS221822V000066
2BPS221832V000013	2BPS221872V000029	2BPS221872V000046	2BPS221842V000067
2BPS221852V000014	2BPS221852V000031	2BPS221892V000047	2BPS221842V000070
2BPS221872V000015	2BPS221872V000032	2BPS221802V000048	2BPS221812V000074
2BPS221892V000016	2BPS221802V000034	2BPS221822V000049	2BPS221832V000075

Please route to :

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



No. **2002-12**

Date: November 15, 2001

SUBJECT: ZX Crankcase and Short Block Spare Parts

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All snowmobiles equipped with a 3-Series's engine (793-693-593-493)	All models involved	All
2001	All snowmobiles equipped with a 3-Series's engine (793-693-593-493)	All models involved	All

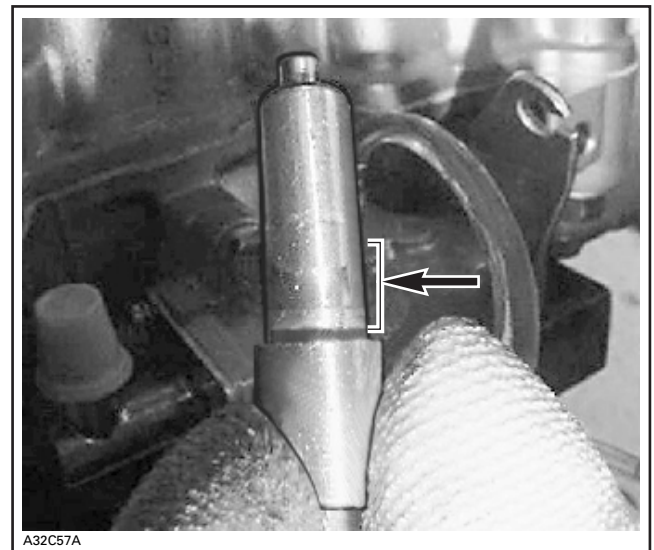
When ordering a crankcase or a short block for 3-Series's engine, dealers/distributors will receive the ordered part along with 2 check valves. Dealers/distributors will have to install the check valves in the right position according to the year of the unit. Engines and check valves are the same for both 2001 and 2002 models except for the orientation of the check valves.

The following instructions give the procedure for correct check valve orientation.

PROCEDURE FOR CHECK VALVE INSTALLATION

Apply Loctite[†] 648 (green) (P/N 413 711 400) on the outer diameter of the check valve (machined section). Take care that Loctite is **ONLY** in this area.

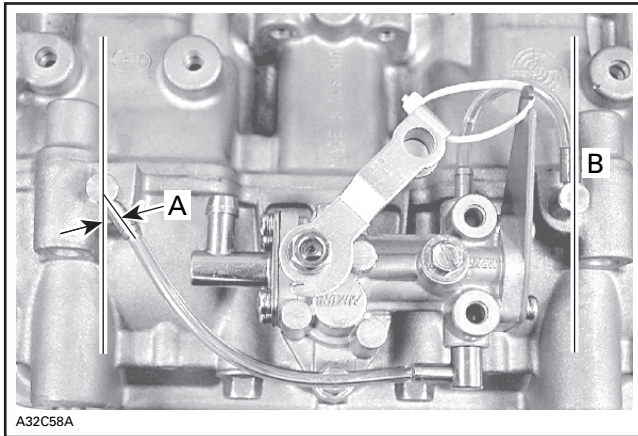
NOTE: Prior to coating it with Loctite, make sure check valve body is clean and dry. Clean from dirt or oil, if any, with part cleaner (P/N 413 711 809).



APPLY LOCTITE ON THIS AREA ONLY

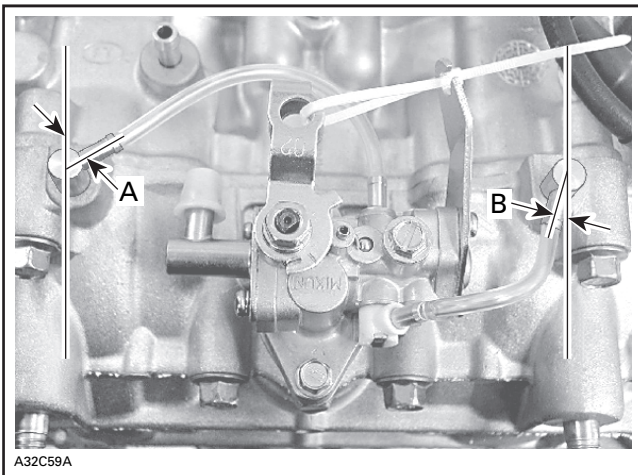
[†] Loctite is a trademark of Loctite Corporation.

Install the check valve in the correct position as described on next photos into the crankcase lower side.



POSITION FOR 2001 SNOWMOBILES

- A. PTO side: $30^{\circ} \pm 10^{\circ}$ from cylinder axis to the bottom
- B. MAG side: 0° from cylinder axis to the top



POSITION FOR 2002 SNOWMOBILES

- A. PTO side $45^{\circ} \pm 5^{\circ}$ from cylinder axis to the top
- B. MAG side $20^{\circ} \pm 5^{\circ}$ from cylinder axis to the bottom

Punch in the check valve carefully with a plastic hammer.

Clean the crankcase from surplus of Loctite 648 with a rag.

Please route to :

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



No. **2002-13**

Date: March 18, 2002

SUBJECT: Rewind Starter Replacement on 800 Engines without Electrical Starter

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	MX Z 800 R	1892/1893/1894/1895/1896/1897/1993/1994/1996/ 2134/2143/2104/2105/2106/2107/2125/2172/2173/ 2174/2175/2176/2177	All
2002	MX Z 800	1916/1917/1918/1919/1932/1933/1934/1935/1880/ 1881/1882/1883/1884/1885	All
2002	Summit 800 R	2215/2216/2217/2218/2190/2191/2192/2193/2194/2195/ 2121/2122/2123/2124/2132/2196/2197/2198/2199/2200/2205	All
2002	Summit 800	1957/1958/1959/1960/1961/1962/1963/1964/1965/1966/1973/ 1974/1975/1976/1967/1968/1969/1970/1971/1972	All

When a rewind starter failure occurs on vehicles listed above, a new muffler inner shell assembly needs to be installed at the same time to improve reliability. When ordering parts, use the part number below which includes a rewind starter and a muffler inner shell assembly.

PART REQUIRED

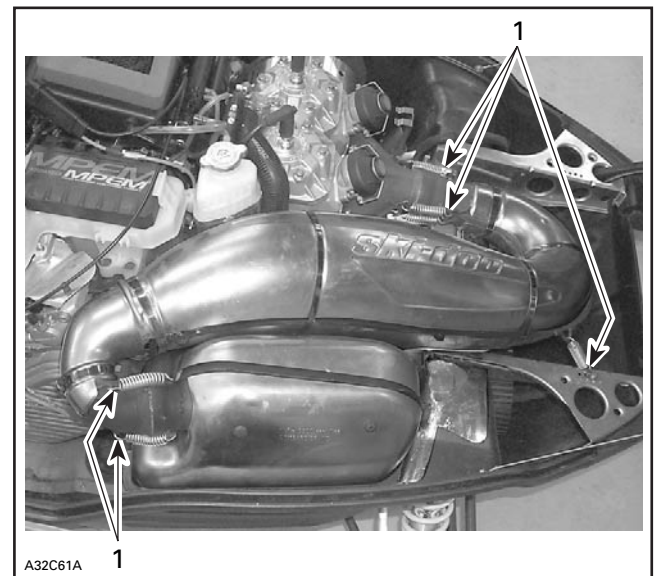
DESCRIPTION	PART NUMBER	QTY
Muffler inner shell and Rewind starter	512 059 769*	1
Pop rivet	390 910 000**	5

*This part number refers to a muffler inner shell assembly and a rewind starter assembly.

**This part number refers to a pack of 25 pop rivets.

PROCEDURE

Remove springs retaining tune pipe.

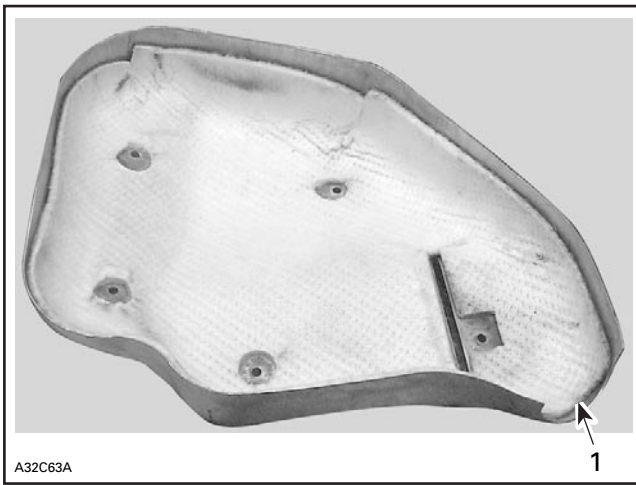


1. Springs

Remove tune pipe.
Remove muffler.



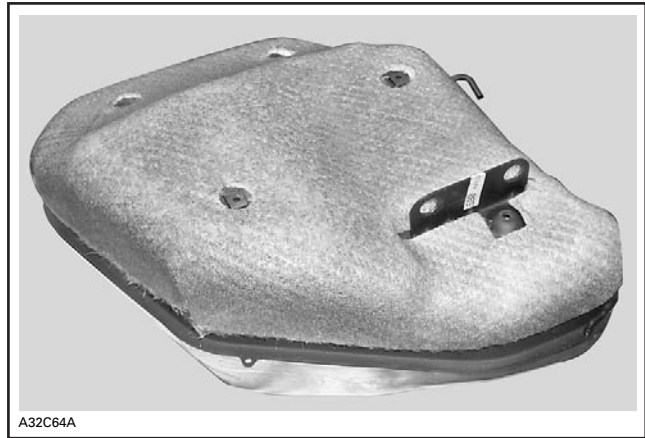
Using 3/16 in drill bit, drill rivets from muffler shell (engine side only).
Remove muffler shell but keep fiberglass wool.



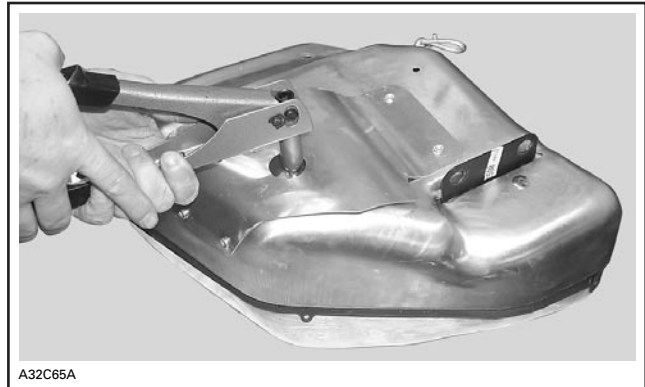
1. Fiberglass wool

Remove loose rivets from muffler.

Install fiberglass wool on muffler.



Position new inner shell assembly on muffler and secure with 5 pop rivets.



Remove rewind starter and replace it with the new rewind starter. Refer to *Shop Manual* for proper procedure.

Reinstall muffler.

Reinstall tuned pipe and secure it with springs.

NOTE: Coat tuned pipe ends with Ultra-Copper (P/N 293 800 090) before reinstallation.

Job Code	01-198
Flat Rate	0.5 hour

Normal warranty applies.

Please route to :

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



No. **2002-14**

Date: April 18, 2002

SUBJECT: Storage Procedure

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All	All	All

GENERAL

Proper snowmobile storage is a necessity during the summer months or when a vehicle is not being used for more than one month.

NOTE: Refer to **Storage** column from LUBRICATION AND MAINTENANCE ESTIMATE chart (P/N 484 300 128) jointly with the present storage procedure bulletin in order to cover each and every aspect of the snowmobile storage procedure. Some of the items mentioned in this bulletin may not apply to a particular model.

GENERAL INSPECTION

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

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

CAUTION: Do not use Bombardier Cleaner (P/N 293 110 001 or 293 110 002) on decals or vinyl.

Any parts found to be worn, broken or damaged, while performing these storage procedures, should be replaced.

LUBRICATION

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

Steering and Front Suspension

Lubricate the steering mechanism. Inspect all components for tightness.

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

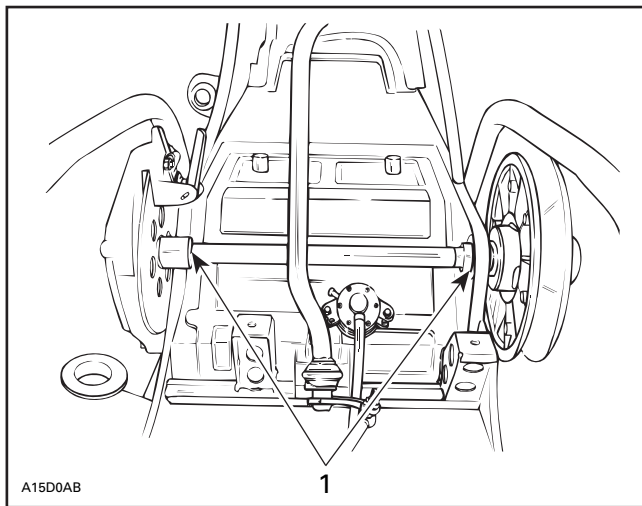
Apply synthetic grease (P/N 413 711 500) on stabilizer sliders, if so equipped. Lubricate also front suspension posts and pivot arms at grease fittings.

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

Countershaft and Brake System

All Models without O-Rings Sealing Brake Disk

For proper operation, if so equipped, brake disc and driven pulley must be floating on the countershaft for efficient operation. Lubricate sparingly using anti-seize lubricant (P/N 293 800 070).



TYPICAL

1. Lubricate here

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

Lubricate ratchet wheel.

Adjust brake and change brake fluid. Refer to the appropriate *Shop Manual* for procedures.

Rear Suspension and Drive Axle

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

Lubricate end housing bearing on drive axle with synthetic grease (P/N 413 711 500).

Lubricate remaining recommended lubrication points. Refer to the appropriate *Shop Manual*, section **LUBRICATION AND MAINTENANCE**.

Coat all electrical connections and switches with silicone dielectric grease (P/N 293 550 004). If unavailable, use petroleum jelly.

NOTE: While performing front and rear suspension lubrication, check for condition and adjustment of mechanical systems such as suspension and stopper strap condition, ski condition, carbides, steering and ski leg camber, handlebar bolts tightening, brake condition and fluid level, etc.

TRACK

Check for track condition.

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

FUEL SYSTEM

Check fuel lines and connections for wear or damages. Replace if required.

With the new fuel additives, it is critical to use the fuel stabilizer (Sta-Bil®) (P/N 413 408 600) (250 ml) to prevent fuel deterioration, gum formation and fuel system components corrosion. Follow instructions on product container.

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

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

Do not drain fuel system.

CAUTION: Fuel stabilizer should be added prior to engine lubrication to ensure carburetor protection against varnish deposit.

ENGINE

Keep engine compartment clean of grass, twigs, cloth, etc. These are combustible under certain conditions.

Check for rewind starter and starting rope condition.

Inspect throttle cable condition. Cable must be free to move into sheath without any strain.

Check for exhaust system wear or damage.

Make sure engine mount nut and engine head nut are torqued to the specified value. Check also for condition of seals.

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:

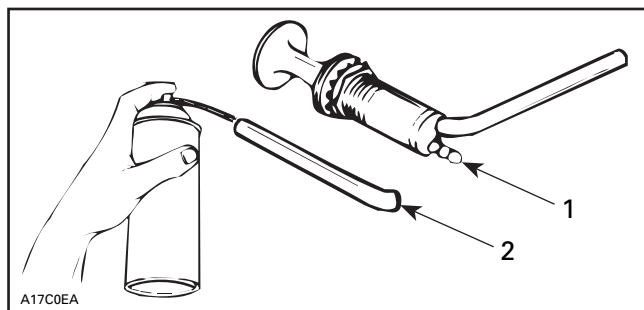
- Start the engine and allow it to run at idle speed until the engine reaches its operating temperature.

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

- Stop the engine.

Models Equipped with a Primer

- To prevent fuel from draining, primer button should be pushed all the way in.
- Disconnect the primer outlet hose from the primer valve (straight coupling).



1. Straight coupling
2. To intake manifold

- Coat interior of primer outlet hose with Bombardier storage oil (P/N 413 711 600).

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

Models Equipped with a Choke

Remove air silencer(s) to spray Bombardier storage oil (P/N 413 711 600) into each carburetor bore.

All Models

- Restart engine and run at idle speed.
- Inject Bombardier 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 cylinder(s).
- Crank slowly 2 or 3 revolutions to lubricate cylinder(s).
- Reinstall the spark plug(s).
- Change oil filter.

Mini Z Model

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

Refer to *Mini Z Shop Manual* for proper oil change procedure.

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.

Check for physical condition of drive and driven pulley.

Check for driven pulley preload (if applicable).

Spray antirust product on pulleys (BOMBARDIER LUBE (P/N 293 600 016)). Do not reinstall drive belt.

LIQUID COOLING SYSTEM (if applicable)

Check coolant level in coolant tank. Replace coolant if spoiled.

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

ELECTRICAL SYSTEM

Verify condition of each and every electrical feature (if applicable):

- Lighting system (HI/LO beam, brake light, etc.)
- Test operation of emergency cut-out switch and tether cut-out switch
- Heating devices
- Buzzers and alarm devices
- Pneumatic suspension switch.

BATTERY (if applicable)

The battery must 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.

Check for wiring harnesses, cables and line condition.

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

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

Electrolyte Battery

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

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.

Dry Battery

Disconnect and remove battery from the snowmobile.

The battery must always be stored in fully charged condition.

Clean battery terminals and cable connections using a wire brush.

Clean battery casing and caps using a solution of baking soda and water. Rinse battery with clear water and dry well using a clean cloth.

All Batteries

Coat battery posts with silicone dielectric grease (P/N 293 550 004) 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 413 803 300) (12 x 355 ml)	BOMBARDIER MINERAL OIL (P/N 413 801 900) (16 x 250 ml)
All models with liquid cooled engine and all Skandic WT models.	All models with fan cooled engine, except Skandic WT models.

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

Check for proper drive chain tension.

BODY CARE

Fabrics

To clean the entire vehicle, use only flannel cloths or equivalent.

CAUTION: Do not use other types of fabrics on windshield and hood to avoid further damages to surfaces.

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

Cleaning

Remove any dirt or rust.

NOTE: To facilitate the inspection and ensure adequate lubrication of components, it is recommended to clean the entire vehicle with Bombardier Cleaner (P/N 293 110 001 (spray can 400 g) and P/N 293 110 002 (4 l)).

CAUTION: Do not use Bombardier Cleaner on decals or vinyl.

For vinyl and plastic parts, use Vinyl & Plastic Cleaner (P/N 413 711 200 (6 x 1 l)).

Inspect hood and repair any damage.

To remove scratches on windshield or hood use BOMBARDIER Scratch Remover Kit (P/N 861 774 800).

CAUTION: Never clean plastic parts or hood with strong detergent, degreasing agent, paint thinner, acetone, products containing chlorine, etc.

Touch up all metal spots where paint has been scratched off. Spray all metal parts including shock chromed rods with BOMBARDIER LUBE (P/N 293 600 016).

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 but ventilated tarpaulin. This will prevent sun rays and grime from affecting plastic components and vehicle finish.

Cleaning Products

UTILITY	COMPONENT	PRODUCT
To clean grease.	Entire snowmobile including metallic parts.	Bombardier Cleaner (P/N 293 110 001)
To clean grease.	Aluminum parts.	Dursol cleaner
To protect metal.	All metal parts.	BOMBARDIER LUBE (P/N 293 600 016)
To clean/repair scratches.	Windshield and hood.	Bombardier Scratch Remover Kit (P/N 861 774 800)
To clean seat, windshield and plastic parts.	Vinyl and plastic parts.	Bombardier Plastic and Vinyl Cleaner (P/N 413 711 200 (6 x 1 l))

Please route to :

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



No. **2002-15**

Date: August 6, 2002

SUBJECT: Batteries

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	All	All	All

Through several surveys, inspections and consultations with battery suppliers it has come to our attention that excessive number of batteries are replaced. Many times these batteries are warranted as being defective when indeed studies show they contain no factory defect. Inappropriate claiming of batteries is costing everyone through increased Bombardier costs.

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

Through proper maintenance and care, today's modern batteries can survive long storage periods, however one must adhere to the proper procedures as outlined in Bombardier *Shop Manuals*, *PDI Bulletins* and *Operator's Guide*. Special attention must be given to preseason and storage care procedures. Over the last 3 years, we have provided training material and discussions on battery care in our One-Day Schools and Training Courses to help you and your customers maintain vehicle batteries.

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

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

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