

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. **2000-1**

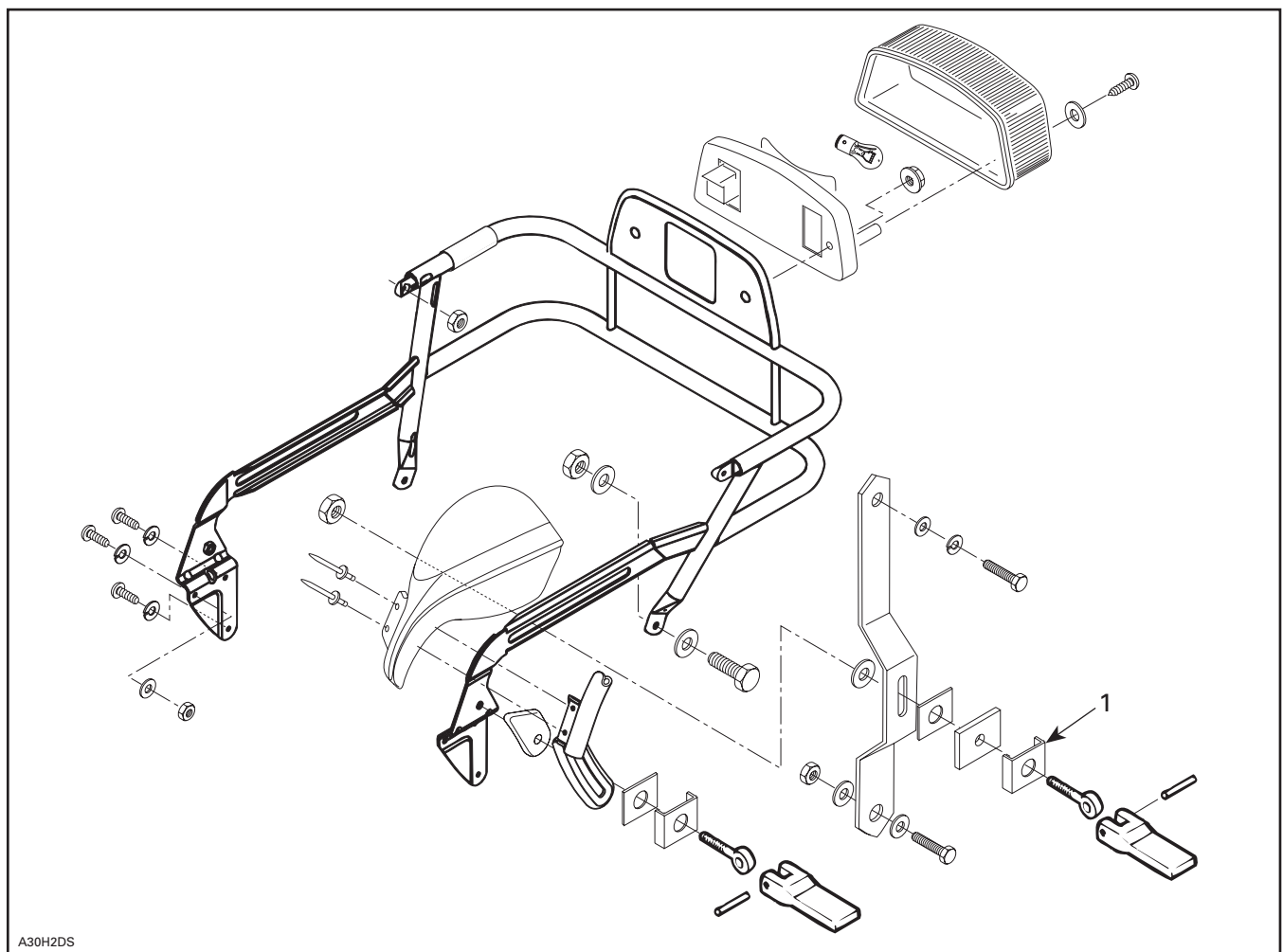
Date: September 10, 1999

**SUBJECT: Backrest Lock Lever Guides
Premature Rust**

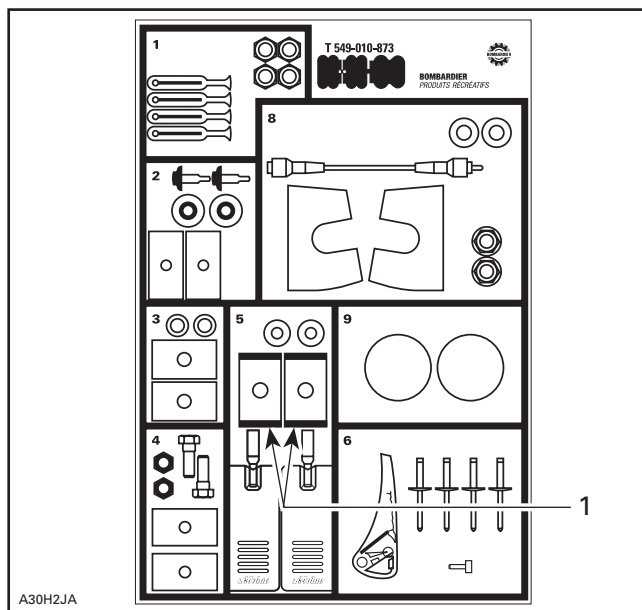
YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	Grand Touring* 700/SE/Millennium	1493/1641/1648	Refer to attached listing

PROBLEM

Backrest lock lever guides will prematurely rust, not having been, beforehand, treated against rust.



1. Involved guide



1. Guides in predelivery kit

SOLUTION

Replace guides in the predelivery kit, section 5.

PARTS REQUIRED

DESCRIPTION	PART NUMBER	QUANTITY
Guide	517 257 300	2

Parts are to be ordered through regular channel.

PROCEDURE

While performing predelivery inspection procedure, simply pull out predelivery kit from the crated snowmobile and exchange faulty guides with new ones.

WARRANTY

Complete a warranty claim form using the following information.

Claim Type	03
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For claiming procedure, refer to the *Dealer Warranty Guide*.

Dealers are requested to return all replaced parts.

Canadian Dealers, return to:

Bombardier Inc.,
Warranty Parts Center,
75 J.-A. Bombardier,
Sherbrooke, QC
J1L 1W3

U.S.A. Dealers, return to:

Bombardier Motor Corporation of America,
c/o Warranty Department,
P.O. Box 8006,
7575 Bombardier Court,
Wausau, WI
54402-8006

LIST OF INVOLVED VEHICLES, MODEL 1493, GRAND TOURING SE

2BPS14936YV000006	2BPS14931YV000155	2BPS14933YV000416
2BPS14931YV000009	2BPS14939YV000159	2BPS14935YV000417
2BPS14938YV000010	2BPS14934YV000165	2BPS14937YV000418
2BPS1493XYV000011	2BPS1493XYV000185	2BPS14930YV000423
2BPS14931YV000012	2BPS14935YV000191	2BPS14932YV000424
2BPS14930YV000017	2BPS14934YV000196	2BPS14934YV000425
2BPS14934YV000019	2BPS14932YV000214	2BPS14938YV000427
2BPS14934YV000022	2BPS14936YV000216	2BPS14931YV000429
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2BPS14930YV000034	2BPS14938YV000248	2BPS14932YV000438
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2BPS14936YV000054	2BPS14936YV000300	2BPS14930YV000454
2BPS14938YV000055	2BPS1493XYV000302	2BPS14936YV000457
2BPS14931YV000057	2BPS14939YV000307	2BPS14938YV000461
2BPS14937YV000063	2BPS14939YV000310	2BPS14935YV000465
2BPS14934YV000067	2BPS14930YV000311	2BPS14930YV000468
2BPS14939YV000081	2BPS14938YV000363	2BPS1493XYV000476
2BPS14934YV000084	2BPS14930YV000373	2BPS14935YV000479
2BPS14931YV000110	2BPS1493XYV000378	2BPS14935YV000482
2BPS1493XYV000123	2BPS14939YV000386	2BPS14937YV000497
2BPS14937YV000130	2BPS14932YV000388	2BPS14933YV000500
2BPS14933YV000139	2BPS14934YV000389	2BPS14932YV000505
2BPS14939YV000145	2BPS14932YV000391	
2BPS1493XYV000154	2BPS14937YV000399	

LIST OF INVOLVED VEHICLES, MODEL 1641, GRAND TOURING 700

2BPS16419YV000003	2BPS16417YV000078	2BPS16419YV000132
2BPS16410YV000004	2BPS16419YV000079	2BPS16410YV000133
2BPS16414YV000006	2BPS16415YV000080	2BPS16412YV000134
2BPS16416YV000007	2BPS16419YV000082	2BPS16414YV000135
2BPS16418YV000008	2BPS16410YV000083	2BPS16418YV000137
2BPS1641XYV000012	2BPS16412YV000084	2BPS16411YV000139
2BPS16411YV000013	2BPS16414YV000085	2BPS16418YV000140
2BPS16410YV000018	2BPS16416YV000086	2BPS1641XYV000141
2BPS16419YV000020	2BPS16418YV000087	2BPS16413YV000143
2BPS16410YV000021	2BPS1641XYV000088	2BPS16415YV000144
2BPS16416YV000024	2BPS16411YV000089	2BPS16417YV000145
2BPS16418YV000025	2BPS16418YV000090	2BPS16419YV000146
2BPS16411YV000027	2BPS1641XYV000091	2BPS16410YV000147
2BPS16415YV000032	2BPS16411YV000092	2BPS16412YV000148
2BPS16417YV000033	2BPS16415YV000094	2BPS16414YV000149
2BPS16419YV000034	2BPS16417YV000095	2BPS16410YV000150
2BPS16412YV000036	2BPS16410YV000097	2BPS16412YV000151
2BPS16418YV000039	2BPS16412YV000098	2BPS16414YV000152
2BPS16416YV000041	2BPS16414YV000099	2BPS16416YV000153
2BPS16418YV000042	2BPS16417YV000100	2BPS16418YV000154
2BPS1641XYV000043	2BPS16410YV000102	2BPS1641XYV000155
2BPS16411YV000044	2BPS16416YV000105	2BPS16411YV000156
2BPS16413YV000045	2BPS16418YV000106	2BPS16415YV000158
2BPS16417YV000047	2BPS16411YV000108	2BPS16417YV000159
2BPS16417YV000050	2BPS16413YV000109	2BPS16413YV000160
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2BPS16410YV000052	2BPS16411YV000111	2BPS16417YV000162
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2BPS16414YV000054	2BPS16415YV000113	2BPS16410YV000164
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2BPS16413YV000062	2BPS16410YV000116	2BPS16416YV000167
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2BPS16410YV000066	2BPS16414YV000118	2BPS16416YV000170
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2BPS16418YV000073	2BPS16419YV000129	2BPS16419YV000177
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2BPS16414YV000183	2BPS1641XYV000236	2BPS1641XYV000365
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2BPS1641XYV000205	2BPS16410YV000343	2BPS16413YV000403
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2BPS16412YV000215	2BPS16419YV000356	2BPS16412YV000411
2BPS1641XYV000219	2BPS16410YV000357	2BPS16418YV000414
2BPS16416YV000220	2BPS16414YV000359	
2BPS16415YV000225	2BPS16410YV000360	

LIST OF INVOLVED VEHICLES, MODEL 1648, GRAND TOURING SE MILLENNIUM

2BPS16488YV000006	2BPS16480YV000078	2BPS1648XYV000119
2BPS1648XYV000007	2BPS16482YV000079	2BPS16486YV000120
2BPS16481YV000008	2BPS16489YV000080	2BPS16488YV000121
2BPS16483YV000012	2BPS16480YV000081	2BPS1648XYV000122
2BPS16480YV000016	2BPS16482YV000082	2BPS16481YV000123
2BPS16482YV000017	2BPS16484YV000083	2BPS16483YV000124
2BPS16484YV000018	2BPS16486YV000084	2BPS16485YV000125
2BPS16482YV000020	2BPS16488YV000085	2BPS16487YV000126
2BPS16484YV000021	2BPS1648XYV000086	2BPS16489YV000127
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2BPS16487YV000031	2BPS16485YV000092	2BPS16484YV000133
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2BPS1648XYV000069	2BPS16483YV000110	2BPS16486YV000151
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2BPS1648XYV000184	2BPS16482YV000227	2BPS16483YV000270
2BPS16481YV000185	2BPS16484YV000228	2BPS16485YV000271
2BPS16483YV000186	2BPS16486YV000229	2BPS16487YV000272
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2BPS16486YV000201	2BPS16482YV000244	2BPS16489YV000287
2BPS16488YV000202	2BPS16484YV000245	2BPS16480YV000288

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2BPS16480YV000422	2BPS16484YV000455	2BPS16488YV000488
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2BPS16484YV000424	2BPS16488YV000457	2BPS16486YV000490
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2BPS1648XYV000427	2BPS16488YV000460	2BPS16481YV000493
2BPS16481YV000428	2BPS1648XYV000461	2BPS16483YV000494
2BPS16483YV000429	2BPS16481YV000462	2BPS16485YV000495
2BPS1648XYV000430	2BPS16483YV000463	2BPS16487YV000496
2BPS16481YV000431	2BPS16485YV000464	2BPS16489YV000497
2BPS16483YV000432	2BPS16487YV000465	2BPS16480YV000498
2BPS16485YV000433	2BPS16489YV000466	2BPS16482YV000499
2BPS16487YV000434	2BPS16480YV000467	2BPS16485YV000500
2BPS16489YV000435	2BPS16482YV000468	2BPS16487YV000501
2BPS16480YV000436	2BPS16484YV000469	2BPS16489YV000502
2BPS16482YV000437	2BPS16480YV000470	2BPS16480YV000503
2BPS16484YV000438	2BPS16482YV000471	2BPS16482YV000504
2BPS16486YV000439	2BPS16484YV000472	2BPS16484YV000505
2BPS16482YV000440	2BPS16486YV000473	2BPS16486YV000506
2BPS16484YV000441	2BPS16488YV000474	2BPS16488YV000507
2BPS16486YV000442	2BPS1648XYV000475	2BPS1648XYV000508
2BPS16488YV000443	2BPS16481YV000476	2BPS16481YV000509
2BPS1648XYV000444	2BPS16483YV000477	2BPS16488YV000510
2BPS16481YV000445	2BPS16485YV000478	2BPS1648XYV000511
2BPS16483YV000446	2BPS16487YV000479	2BPS16481YV000512
2BPS16485YV000447	2BPS16483YV000480	2BPS16483YV000513
2BPS16487YV000448	2BPS16485YV000481	2BPS16485YV000514
2BPS16489YV000449	2BPS16487YV000482	2BPS16487YV000515
2BPS16485YV000450	2BPS16489YV000483	

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"/>



SAFETY

SNOWMOBILES



Campaign no. 2000-0001

No. **2000-2**

Date: October 8, 1999

SUBJECT: Belt Guard Bracket

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	Formula Z 600	1652	see list in annex

PROBLEM

On some units, belt guard rear bracket is too brittle and may break when belt guard is installed or removed.

SOLUTION

Replace the bracket.

PARTS REQUIRED

DESCRIPTION	PART NUMBER	QTY
Belt Guard Bracket (already sent to the dealers)	518 202 100	1

PROCEDURE

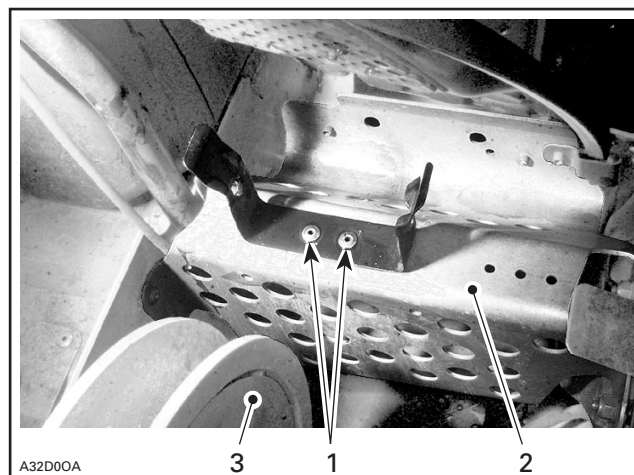
Open the hood.

Remove the belt guard.

Drill both rivets securing rear bracket.

WARNING

Always use eye protection such as safety glasses when drilling metal.



1. Rivets to be drilled
2. Footrest
3. Driven Pulley

Remove bracket and keep reinforcement plate.

Make sure surface of footrest receiving belt guard bracket is plane.

Secure new bracket and reinforcement with rivets (P/N 390 402 200).

Reinstall belt guard and close hood.

WARRANTY

Even if this job has already been performed and a claim form was sent through normal warranty procedure, **claim again through this campaign** (Safety Warranty Campaign Procedure).

NOTE: If a regular claim has been sent, Bombardier will debit the dealer's account of the credited amount.

Complete a warranty form using the following information:

Campaign Number	2000-0001
Campaign Type	07
Flat Rate Time	0.3
Expiration Date	2001/03/01

NOTE: Dealers are requested to return bracket in support of their claim.

SERIAL NUMBER LISTING OF INVOLVED VEHICLES

Model 1652

2BPS16524YV000028	2BPS1652XYV000650	2BPS16528YV000694
2BPS16529YV000056	2BPS16527YV000654	2BPS1652XYV000695
2BPS16524YV000059	2BPS16529YV000655	2BPS16521YV000696
2BPS16527YV000069	2BPS16520YV000656	2BPS16523YV000697
2BPS16529YV000106	2BPS16526YV000659	2BPS16525YV000698
2BPS16528YV000131	2BPS16524YV000661	2BPS16527YV000699
2BPS16527YV000167	2BPS16526YV000662	2BPS1652XYV000700
2BPS16528YV000176	2BPS16528YV000663	2BPS16521YV000701
2BPS16529YV000199	2BPS1652XYV000664	2BPS16523YV000702
2BPS1652XYV000213	2BPS16521YV000665	2BPS16525YV000703
2BPS16520YV000219	2BPS16523YV000666	2BPS16527YV000704
2BPS16521YV000228	2BPS16525YV000667	2BPS16529YV000705
2BPS16527YV000234	2BPS16527YV000668	2BPS16520YV000706
2BPS16527YV000251	2BPS16529YV000669	2BPS16522YV000707
2BPS16529YV000252	2BPS16525YV000670	2BPS16524YV000708
2BPS16520YV000253	2BPS16527YV000671	2BPS16526YV000709
2BPS16522YV000254	2BPS16529YV000672	2BPS16522YV000710
2BPS16524YV000255	2BPS16520YV000673	2BPS16524YV000711
2BPS1652XYV000261	2BPS16522YV000674	2BPS16526YV000712
2BPS16525YV000264	2BPS16524YV000675	2BPS16528YV000713
2BPS16529YV000266	2BPS16526YV000676	2BPS1652XYV000714
2BPS16520YV000267	2BPS16528YV000677	2BPS16521YV000715
2BPS16520YV000270	2BPS1652XYV000678	2BPS16523YV000716
2BPS16528YV000338	2BPS16521YV000679	2BPS16525YV000717
2BPS16528YV000372	2BPS16528YV000680	2BPS16527YV000718
2BPS16523YV000411	2BPS1652XYV000681	2BPS16529YV000719
2BPS16527YV000413	2BPS16521YV000682	2BPS16525YV000720
2BPS16522YV000433	2BPS16523YV000683	2BPS16527YV000721
2BPS1652XYV000454	2BPS16525YV000684	2BPS16529YV000722
2BPS1652XYV000552	2BPS16527YV000685	2BPS16520YV000723
2BPS1652XYV000602	2BPS16529YV000686	2BPS16522YV000724
2BPS16529YV000610	2BPS16520YV000687	2BPS16524YV000725
2BPS16523YV000621	2BPS16522YV000688	2BPS16526YV000726
2BPS16529YV000638	2BPS16524YV000689	2BPS16528YV000727
2BPS16520YV000639	2BPS16520YV000690	2BPS1652XYV000728
2BPS16527YV000640	2BPS16522YV000691	2BPS16521YV000729
2BPS16524YV000644	2BPS16524YV000692	
2BPS16526YV000645	2BPS16526YV000693	



Date: October 8, 1999
To: **All Authorized Ski-Doo® Dealers**
Subject: **Safety Recall - Belt Guard Bracket Brittleness
(2000 Ski-Doo Formula* Z 600)**

BOMBARDIER
RECREATIONAL PRODUCTS

Bombardier Inc.
565, de la Montagne
Valcourt, Québec, Canada J0E 2L0
Telephone 1(514) 532-2211
Fax 1(514) 532-5032
<http://www.recreation.bombardier.com>

Certified Mail

Dear Dealer:

This notice is sent to you in accordance with the requirements of applicable Federal regulations. **Bombardier Recreational Products** has determined that a safety defect, may exist in certain 2000 Ski-Doo **Formula Z 600**.

The component that may be defective in the above mentioned **Formula Z 600** is the **belt guard bracket**. On some 2000 **Formula Z 600**, rear bracket of belt guard is may break when belt guard is installed or removed.

We will be sending a Safety Recall letter, a copy of which is attached here, to all known owners of the involved 2000 Ski-Doo **Formula Z 600** asking them to contact their dealer in order to replace the **belt guard bracket**. However, it is strongly recommended that you also personally contact any owner to whom you have sold a 2000 Ski-Doo **Formula Z 600** involved in this Safety Recall.

Please read and carry out all instructions contained in the enclosed Recall Safety bulletin.

Please avoid using the involved Ski-Doo **Formula Z 600** at a high RPM and advise all customers against doing so until the necessary modification has been performed.

We regret any inconvenience this may cause but trust you understand our safety concerns.

Thank you for your immediate attention to this matter.

After-Sales Service Department

Bombardier
Recreational Products



BOMBARDIER
RECREATIONAL PRODUCTS

Bombardier Inc.
565, de la Montagne
Valcourt, Québec, Canada J0E 2L0
Telephone 1(514) 532-2211
Fax 1(514) 532-5032
<http://www.recreation.bombardier.com>

Date: October 8, 1999

SAFETY RECALL

Belt Guard Bracket Brittleness
(2000 Ski-Doo Formula Z 600)

Certified Mail

Dear Owner:

This notice is sent to you in accordance with the requirements of applicable Federal regulations. **Bombardier Recreational Products or Bombardier Motor Corporation of America (Bombardier)**, has determined that a safety defect may exist in 2000 Ski-Doo **Formula Z 600**. Our records indicate you are the owner of a 2000 Ski-Doo **Formula Z 600**.

The component of your Ski-Doo that may be defective is the belt guard bracket. On some **Formula Z 600**, **rear bracket of belt guard** may break when belt guard is installed or removed.

You should not operate, nor permit your Ski-Doo snowmobile to be operated, before it has been repaired by your authorized Ski-Doo dealer.

Please contact your authorized Ski-Doo dealer at your earliest convenience to have the necessary repair performed. This work will be done at no charge to you.

If you have already sold your Ski-Doo **Formula Z 600**, please forward this letter to the new owner.

We are sorry to cause you this inconvenience; however, we have taken this action in the interest of your safety and continued satisfaction with our products.

Sincerely,

After-Sales Service Department

Bombardier
Recreational Products

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"/>



QUALITY

SNOWMOBILES



NOTE: Repair only if described symptoms exist or are noticed.

No. **2000-3**

Date: June 30, 2000

**SUBJECT: A) Cold Start Carburation
Recalibration
B) TRA Clutch Recalibration
C) MPEM Recalibration**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	Grand Touring* SE	1493/1648	All

IMPORTANT NOTICE: These corrective actions are to be taken **ONLY IF** symptoms arise and/or are reported by user.

PROBLEM

In some cases, owners of involved models may report a hard starting or even a non starting condition in cold weather jointly with a bad acceleration response under 6000 RPM.

SOLUTION

Proceed with all following recalibrations (A, B and C).

PARTS REQUIRED

NOTE: Required parts are supplied by ordering kit (P/N 590 122 000) through regular channel.

Kits will be available starting August 7, 2000; releases are going to be first in/first out. You may order now.

PROCEDURE

A) COLD START CARBURATION RECALIBRATION

Refer to the *2000 Shop Manual, Volume 2*, (P/N 484 200 013) for carburetors/DPM removal procedure. Note that choke cable needs to be unhooked from air silencer and removed together with carburetors and DPM.

Ensure fuel valve is closed on snowmobile.

WARNING

Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle. Ensure work area is well ventilated. Do not smoke or allow open flames or sparks in the vicinity.

Place carburetors/DPM on a work bench and proceed as per attached instruction sheet (P/N 415 127 995).

B) TRA CLUTCH RECALIBRATION

Refer to the *2000 Shop Manual, Volume 2*, (P/N 484 200 013), and perform TRA clutch ramps replacement as per given procedure, using ramps no. 8 supplied in kit (P/N 590 122 000).

NOTE: Set calibration screws at position 3.

C) MPEM RECALIBRATION

Required Tools

DESCRIPTION	PART NUMBER	QTY
Calibration Cartridge	512 059 358	1

NOTE: Calibration cartridge, also programmed to be used on 1999 models, will be auto-shipped to all authorized Ski-Doo dealers **free of charge** starting August 7, 2000.

Ensure programmer used has been updated with 3.3 version diskette (P/N 529 035 717), (of which auto shipment started February 11, 2000; refer to *Service Bulletin 99-20*).

Connect programmer.

We strongly recommend the use of the by-pass wire (P/N 529 033 300), (refer to following illustration), **instead of starting engine** in order to reduce the chances of data transfer problems.



CONNECT BOTH BY-PASS WIRE TERMINAL HOUSINGS TO HARNESS AND MODULE AND TURN ON THE SWITCH

Connect by-pass wire or start engine (if by-pass wire is not available).

CAUTION: Engine must run until the end of the procedure (unless by-pass wire is used). Failure to do so will cause an error requiring procedure to be restarted.

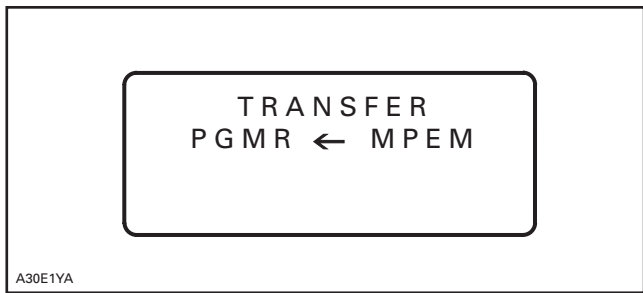
To go backward in the programmer, press "MENU" until desired menu appears.

When data are being transferred, you must rev the engine at 2000 - 2500 RPM and make sure connection between programmer and vehicle is good (unless by-pass wire is used).

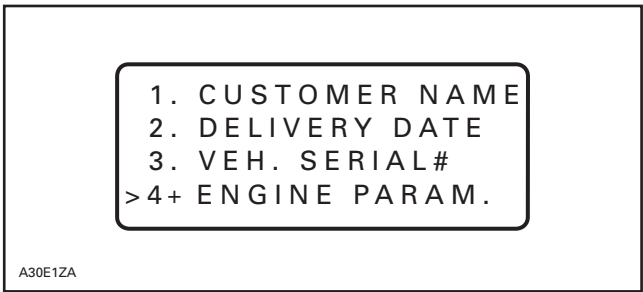
CAUTION: Never reach or exceed 2700 RPM. Failure to do so will cause an error requiring procedure to be restarted.

Each time a function engages data transfer, the following sign will appear: **← Trs**. At this point, be ready to rev the engine (unless by-pass wire is used) so it will not fall below the 2000 RPM mark.

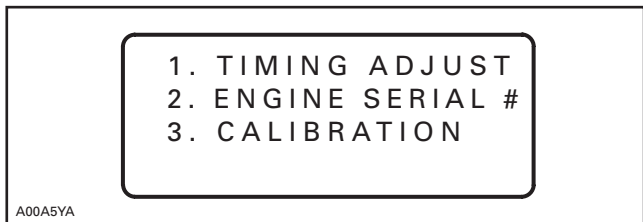
Press 3 for VEHICLE INFO, following screen appears temporarily:



Followed by this screen:

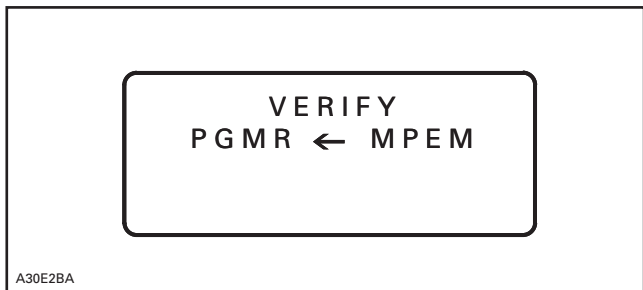


Press 4 for ENGINE PARAMETERS, following screen appears:

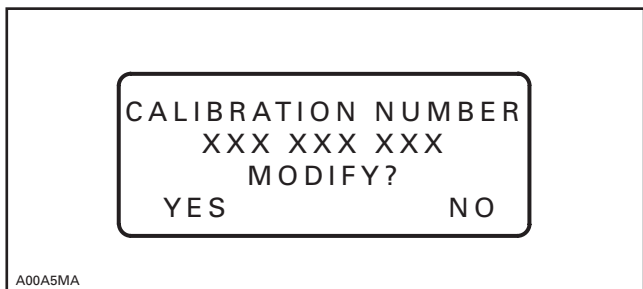


Press 3 for CALIBRATION.

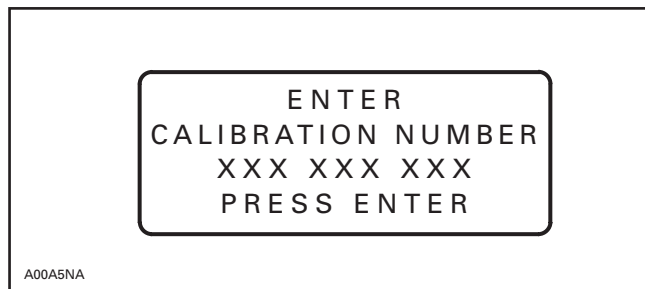
← Trs appears and following screen temporarily:



And then following screen showing the actual calibration number in the vehicle.



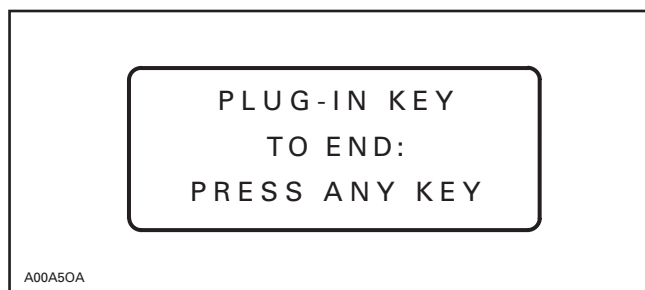
Select YES to MODIFY? and press ENTER; following screen appears:



Enter calibration number 512 059 359.

IMPORTANT: Be sure to enter number 512 059 359.

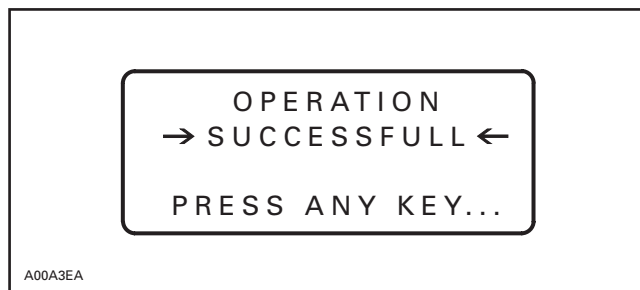
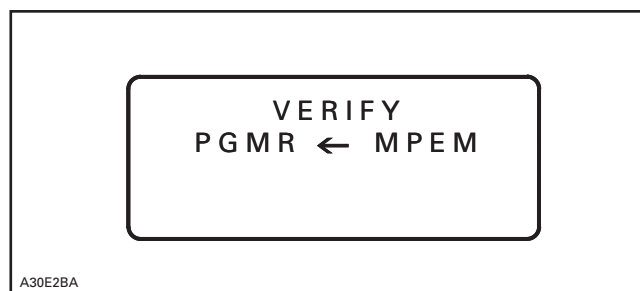
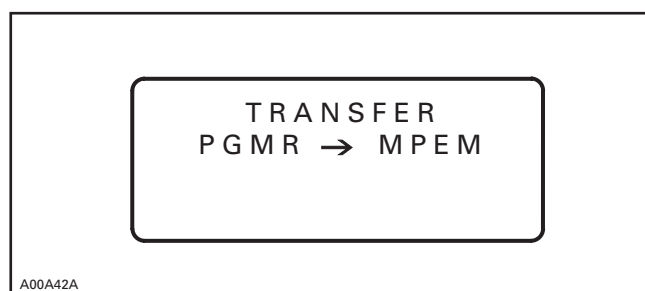
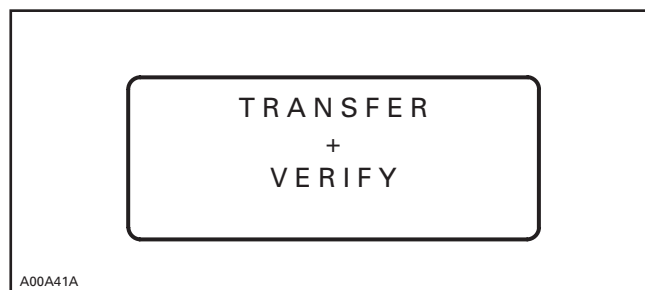
Press ENTER, following screen appears:



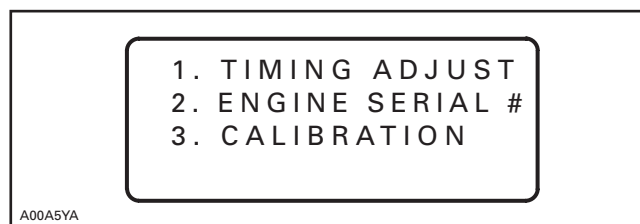
NOTE: If an error occurred during data entry, the procedure will have to be restarted.

Simultaneously to the following operation a transfer will occur: ← Trs. At this point, be ready to rev the engine (unless by-pass wire is used) so it will not fall below the 2000 RPM mark.

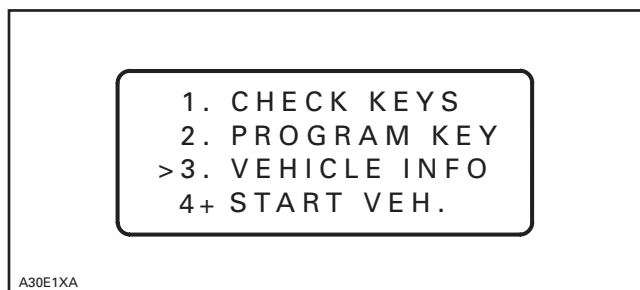
Plug-in the calibration cartridge (P/N 512 059 358) onto the programmer post, the following screens will appear temporarily:



Press any key, ← Trs will show followed by next screen:



Press MENU twice, following screen will show:



After procedure is completed, ensure engine idle speed with engine hot is 1800 - 2000 RPM.

You can stop the engine.

NOTE: If an error occurred during data entry, the procedure will have to be restarted.

After recalibration, start engine with vehicle lanyard and verify the reverse (RER) function; this test will confirm that MPEM is correct. If reverse (RER) function does not operate, restart procedures.

WARRANTY

When and if all conditions described herein are fulfilled, complete a warranty claim form using the following information.

Reference Number	2000-0002
Claim Type	07
Flat Rate Time	2.0 hours
Expiration Date	December 31, 2001

Use reference number as a campaign number.

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

Ensure involved *Shop Manual* is updated accordingly.

FINAL NOTE: When all of these 3 recalibrations are completed, ensure you identify the unit as a "*COMPLETED ONE*" by writing the bulletin number (2000-3) on the clutch with a marker together with the mention OK **(2000-3 OK)**.



**CARBURETORS/TRA CLUTCH
RECALIBRATION KIT
(P/N 590 122 000)**

⚠ WARNING

For safety reasons, this kit must be installed by an authorized Ski-Doo® snowmobile dealer. Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific applicable models only. It is not recommended for units other than those for which it was sold.

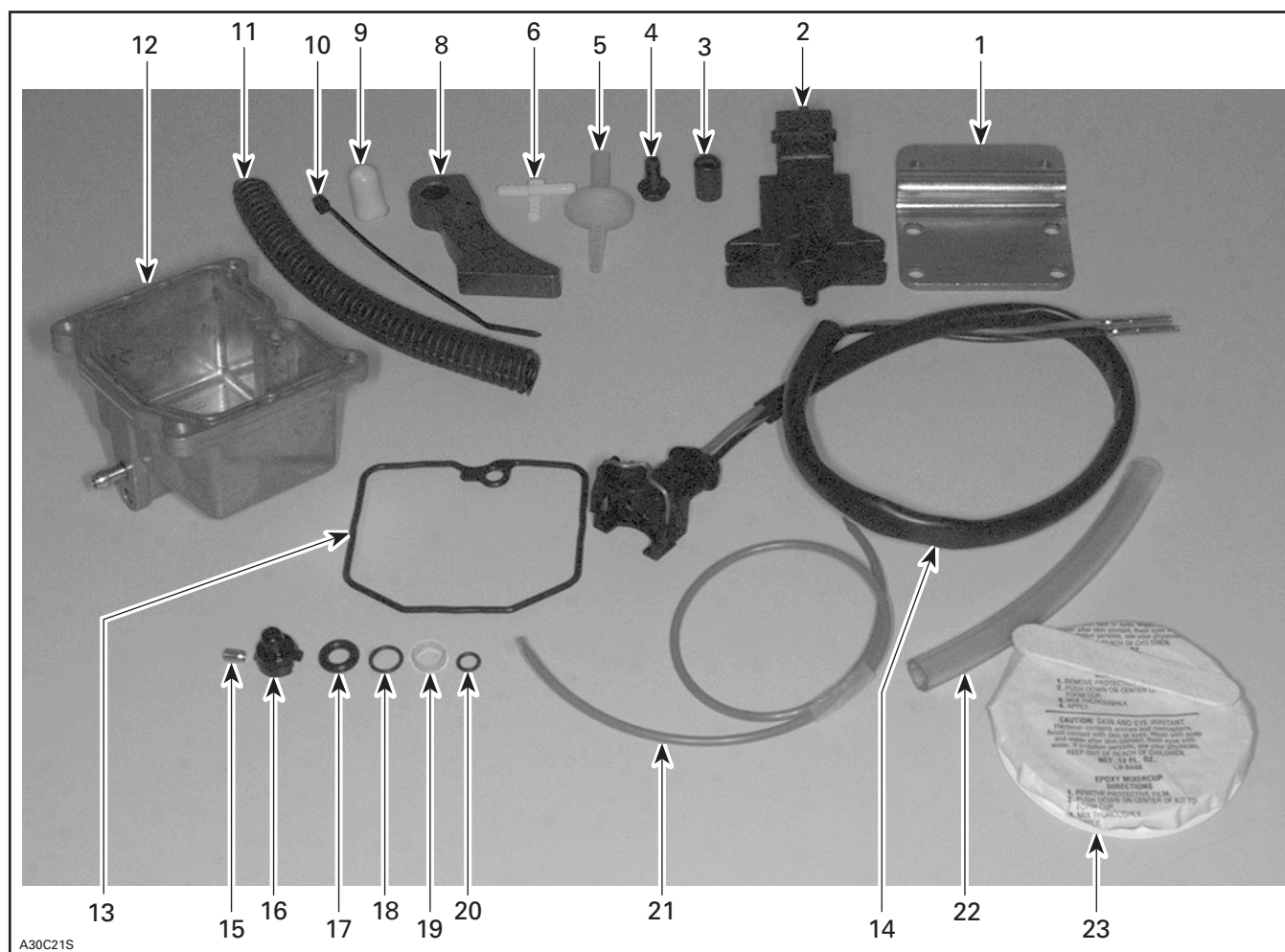
NOTE: Installation time is **2.6** ① hours for 1999 Grand Touring SE models ②.

NOTE: Installation time is **2.0** ① hours for 2000 Grand Touring SE models ②.

① Amount of labor allowed **includes all 3 recalibration items** mentioned in either *Warranty Bulletins* 99-9 or 2000-3: A) Cold Start Carburation Recalibration, B) TRA Clutch Recalibration and C) MPEM Recalibration.

② **For which models this instruction sheet is solely intended.**

PARTS TO BE INSTALLED



1. Solenoid Plate
2. Solenoid Valve
3. Cap
4. Self-Tapping Screw (2)
5. Check Valve (3)
6. T-Fitting (2)
7. Hose (1 m (39 in)) (not illustrated)
8. Ramp (3)
9. Cap (3)
10. Locking Tie (5)
11. Protector Tubing (125 mm (5 in))
12. Float Body

13. Float Body O-Ring
14. Solenoid Valve Harness
15. Compensation Jet 2.0
16. Vacuum Collector End Cap
17. Vacuum Collector End Cap O-Ring
18. Compensation Solenoid O-Ring (larger)
19. Compensation Solenoid Plastic Spacer
20. Compensation Solenoid O-Ring (smaller)
21. Nylon Wire (1/2 m (20 in)) (1999 models only)
22. Tubing (102 mm (4 in))
23. Quick Epoxy Kit (1999 models only)

INSTRUCTION

WARNING

Torque wrench tightening specifications must strictly be adhered to. Locking devices (ex.: locking tabs, elastic stop nuts, self-locking fasteners, etc.) must be installed or replaced with new ones where specified. If the efficiency of a locking device is impaired, it must be renewed.

NOTE: This instruction sheet must be used **in conjunction with** *Warranty Bulletin* 99-9 or 2000-3.

Carburetors Recalibration

Removal

Ensure fuel valve is closed on snowmobile.

WARNING

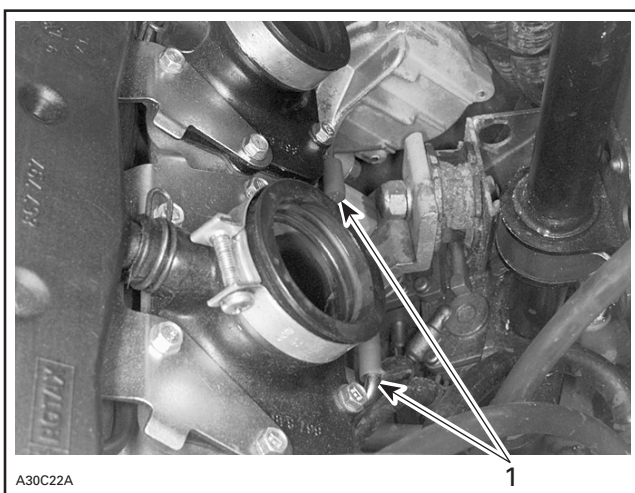
Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle. Ensure work area is well ventilated. Do not smoke or allow open flames or sparks in the vicinity.

At this stage, carburetors/DPM have been removed from snowmobile and rest on a working bench.

1999 and 2000 Models

Before proceeding with carburetor modifications, unplug and discard all 3 air pump hoses; air pump will no longer be used.

Plug up 2 air pump impulse fittings on engine using caps no. 9.



1. 2 impulse fittings on engine

1999 Model Year Only (compensation mode)

Remove and discard DPM vacuum collector end cap and its O-ring (if O-ring does not come out, get it out with a small hook).

Remove DPM compensation solenoid retaining plate by removing its retaining screw; these parts will be reused.

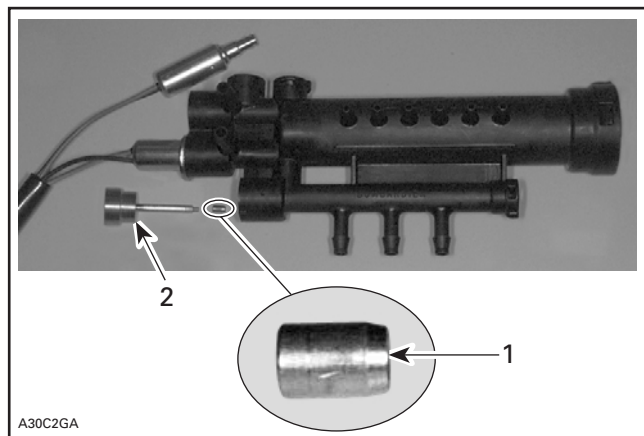
Pull out DPM compensation solenoid by wiggling it out; pull it out gently so to be sure larger O-ring and plastic spacer will come out. Discard larger O-ring, spacer and smaller O-ring.

Using DPM compensation jet extractor tool (P/N 529 035 723), push out compensation jet by inserting tool on DPM vacuum collector end cap side. Discard jet.

WARNING

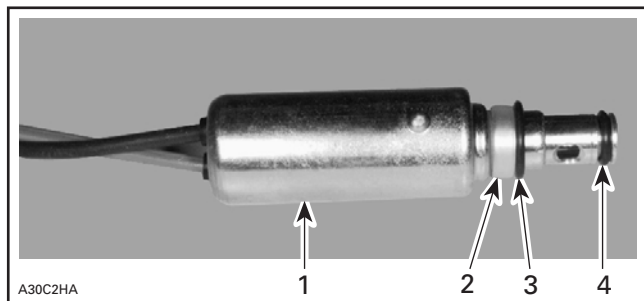
Push tool slowly and gently, a hard blow may propel jet in someone's face. Wear protective glasses during this operation.

Using DPM compensation jet installer tool (P/N 529 035 722), insert compensation jet **no. 15**, tapered end first, on compensation solenoid side; when tool contacts DPM body, compensation jet is properly seated.



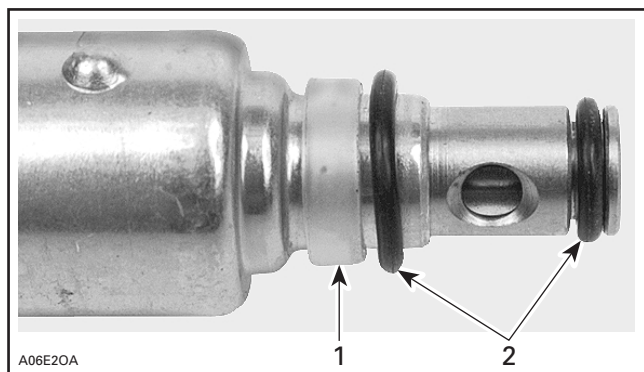
1. Compensation jet **no. 15**
2. Installer tool

Slide DPM compensation solenoid plastic spacer **no. 19**, then larger DPM compensation solenoid O-ring **no. 18** onto compensation solenoid and finally, slide smaller DPM compensation solenoid O-ring **no. 20** into compensation solenoid groove.



1. Solenoid
2. Plastic spacer **no. 19**
3. Larger O-ring **no. 18**
4. Smaller O-ring **no. 20**

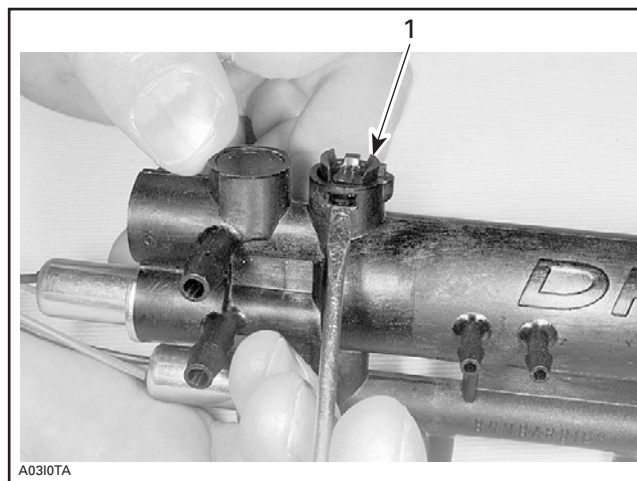
At reassembly, ensure that solenoid seals are in place.



1. Plastic spacer
2. O-rings

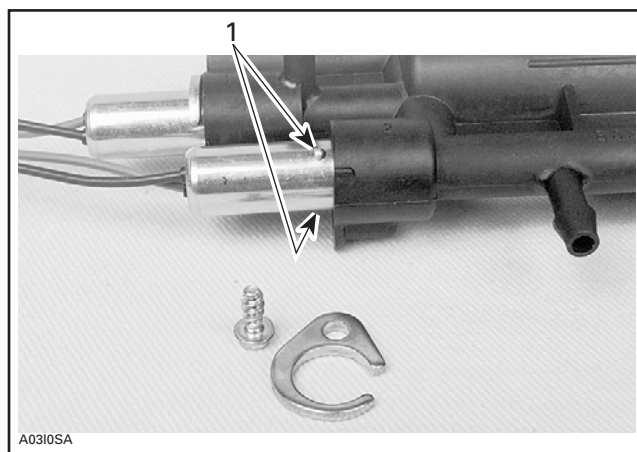
Installation of compensation solenoid must be done as follows:

Remove transfer gallery plug by pushing 2 tabs.



1. Transfer gallery plug

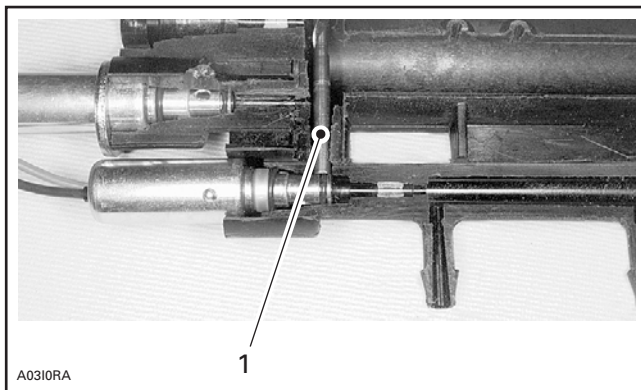
Partially insert compensation solenoid into DPM manifold.



1. Embosses not engaged

Insert a 3.969 mm (5/32 in) drill bit with its round end first into the transfer gallery.

Fully push solenoid into DPM manifold while maintaining a pressure on drill bit. This will guide the solenoid O-ring.



TYPICAL — CUT-AWAY

1. Drill bit round end guiding solenoid O-ring

Secure DPM compensation solenoid in place with its retaining plate and screw previously removed. Snap transfer gallery plug back in place.

Insert DPM vacuum collector end cap O-ring **no. 17** onto DPM vacuum collector end cap **no. 16**. Align cap dot with solenoid body groove and push it in its hole till it snaps in place.

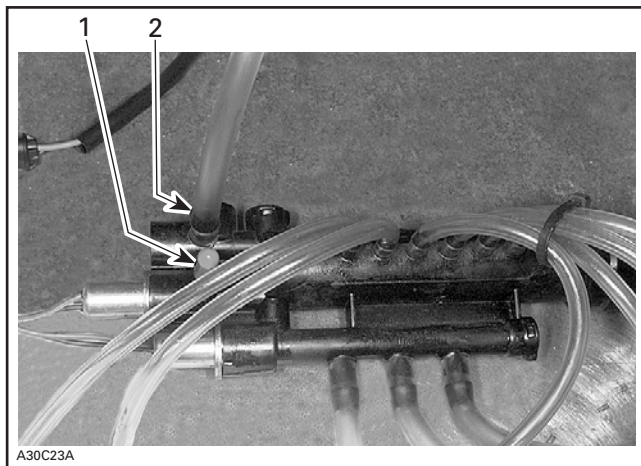


1. End cap O-ring no. 17
2. End cap no. 16

1999 and 2000 Models

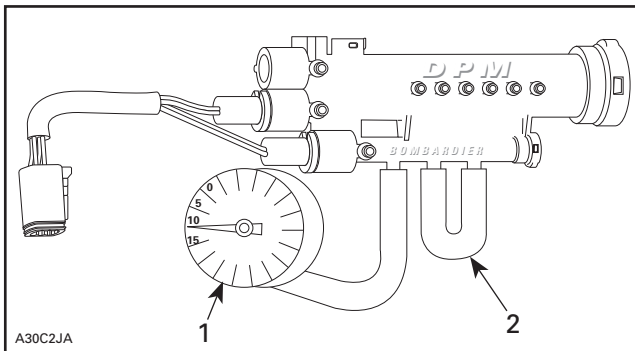
Using third and last cap **no. 9**, plug up air pump inlet fitting on air pressure manifold.

CAUTION: Ensure proper fitting is plugged up otherwise, severe engine damage will occur.



1. Fitting to be plugged up on pressure manifold
2. Vent hose **not to be plugged up nor removed**

Disconnect all 3 carburetor venturi hoses from DPM. Using tubing **no. 22**, connect 2 carburetor venturi nipples together as per following illustration and proceed with air tightness test by connecting tester onto third nipple; must hold 5 PSI vacuum for 10 seconds.



1. Tester
2. Tubing no. 22

Repair leaks (if any).

Reconnect carburetor venturi hoses to DPM.

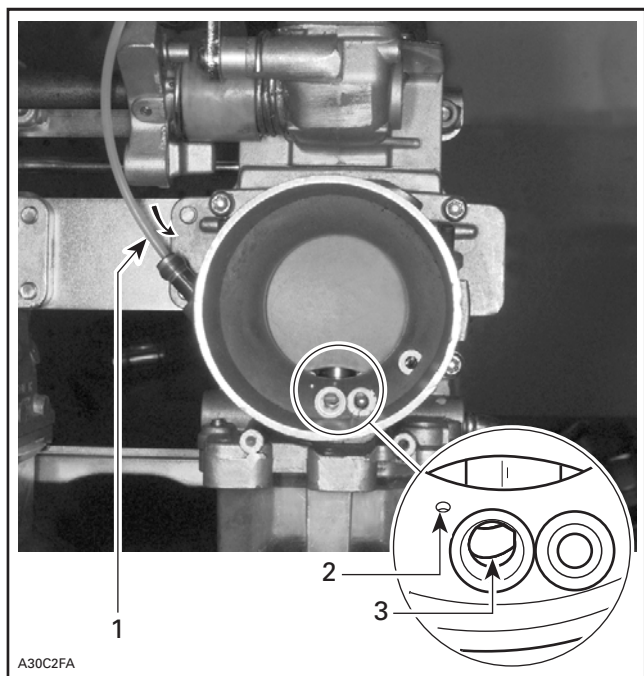
1999 Model Year Only

Cut the 1/2 m (20 in) long nylon wire **no. 21**, into 3 equal lengths; grind one end of each length as to sharpen a pencil, and insert in venturi hose inlet of each carburetor.

Remove and keep screw inside carburetors (no. 3 hole in illustration below).

Push nylon wire till the end until tip of it is visible through hole left by removal of screw.

For better result, use a regular pair of pliers and pinch nylon wire at approximately 6.35 mm (1/4 in) from carburetor venturi hose inlet and push nylon wire, back up and repeat with pliers until tip of wire is visible.



1. Nylon wire **no. 21**
2. Hole to block
3. Nylon wire seen through screw hole

Clean surfaces around holes to block (no. 2 in above illustration) with carburetor cleaner and get quick epoxy kit **no. 23** ready. (Follow manufacturer's instructions).

Using supplied wooden stick, apply a small coat of epoxy on hole of each carburetor, wipe off excess with a clean cloth and set aside to dry for 3 minutes.

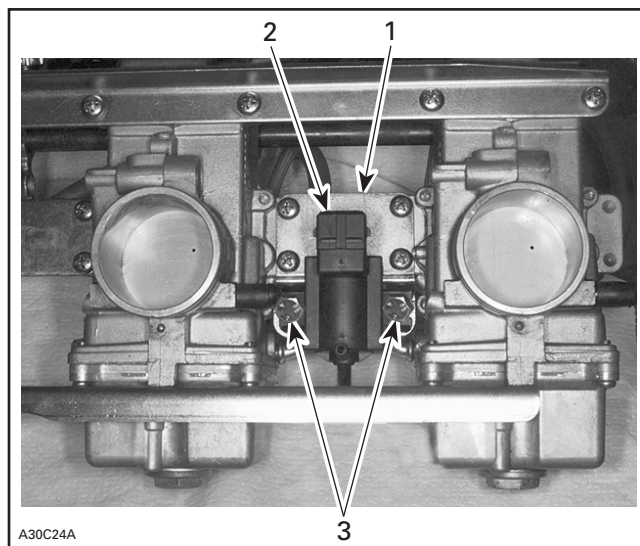
Pull out nylon wires from carburetors.

Reinstall previously removed screw inside carburetors.

1999 and 2000 Models

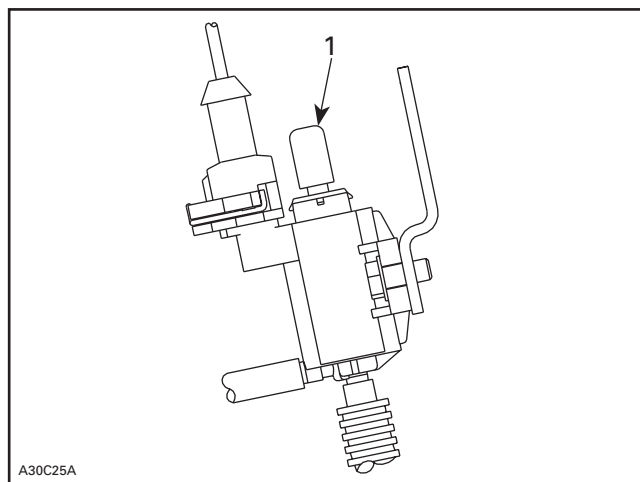
With carburetors laying flat on working bench, engine side up, exchange plate between CENTER and PTO side carburetors with solenoid plate **no. 1** using same screws.

Secure solenoid valve **no. 2** to solenoid plate using 2 self-tapping screws **no. 4**. Tighten at 2.7 to 3 N•m (24 to 27 lbf•in). Refer to following photo.



1. Solenoid plate
2. Solenoid valve
3. Self-tapping screws **no. 4**

Using cap **no. 3**, plug up top outlet fitting on solenoid valve. Refer to following illustration.



1. This outlet fitting **must be plugged up**

WARNING

Top outlet fitting on solenoid valve **must be plugged up** or fuel may exit and cause damage. Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle. Ensure work area is well ventilated. Do not smoke or allow open flames or sparks in the vicinity.

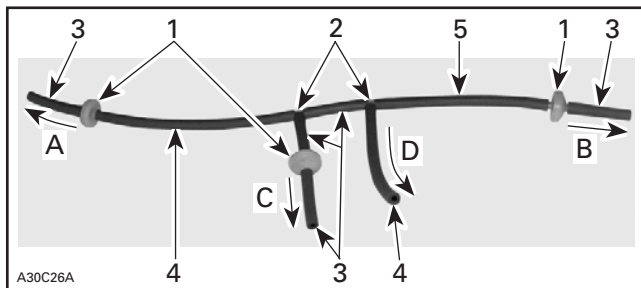
Remove and discard existing float body from CENTER carburetor and install float body no. 12 using same screws and making sure float body O-ring no. 13 is properly placed in new float body groove. **Transfer bottom plug with O-ring from old to new float body.**

WARNING

Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle. Ensure work area is well ventilated. Do not smoke or allow open flames or sparks in the vicinity.

Cut a length of 135 mm (5-5/16 in) from hose no. 7 and connect it from solenoid valve bottom fitting to CENTER carburetor float body fitting; secure hose to float body fitting with a locking tie no. 10, and cover hose with protector tubing no. 11.

Using three no. 5 check valves, two no. 6 T-fittings with the remaining of the meter (39 in) long no. 7 hose, cut hose to appropriate lengths and connect to reach pattern shown in next illustration.

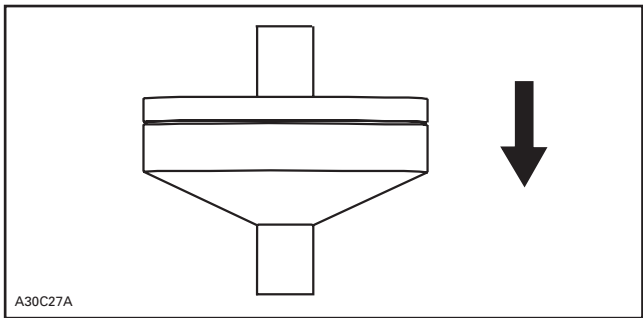


1. Check valve (3)
2. T-fitting (2)
3. 41 mm (1-39/64 in) length hose (5)
4. 135 mm (5-5/16 in) length hose (2)
5. 110 mm (4-21/64 in) length hose (1)
- A. To MAG side carburetor
- B. To PTO side carburetor
- C. To CTR carburetor
- D. To solenoid valve

Remove factory installed plugs from fuel inlet fitting of each carburetor and connect hoses as per pattern.

CAUTION: Make sure check valves are properly installed so they deliver gas instead of blocking its circulation. Coned side, like an arrow, shows in which direction gas circulates, towards carburetors.

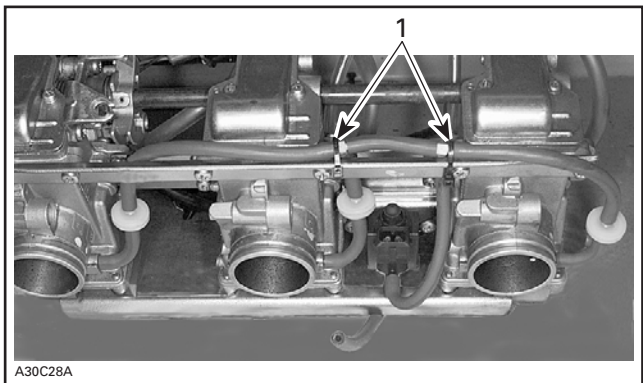
Refer to following illustration.



ARROW SHOWS DIRECTION OF GAS FLOW TOWARDS CARBURETORS

Route as described and secure to plate with 2 locking ties no. 10 as per following photo.

NOTE: Make sure both locking ties are over T-fittings in order not to kink hose.

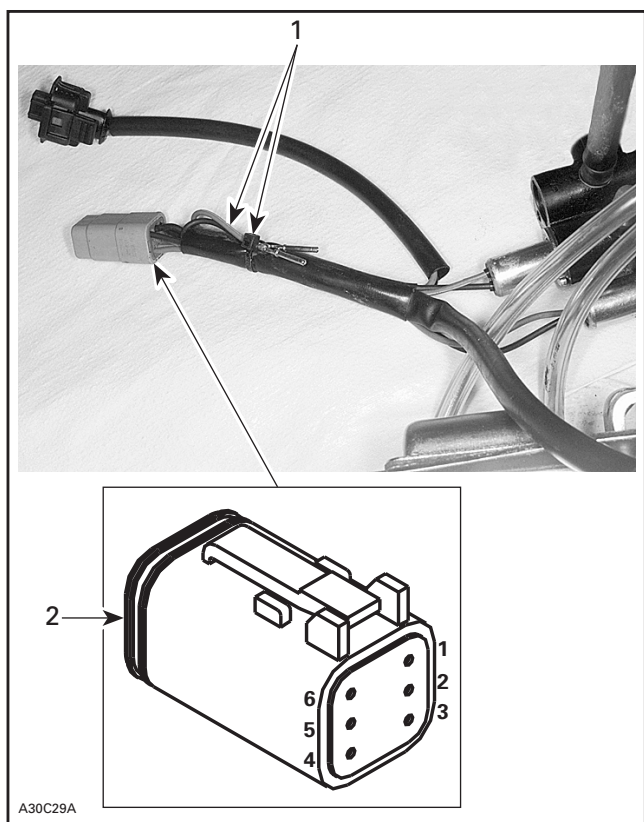


1. Locking ties

Enrichment Mode

From DPM electrical harness male connector housing, remove RED-GREEN wire (position 2 in illustration below) and its BLACK wire (position 5 in illustration below), fold them backward onto their plastic protector and secure them in place with a locking tie no. 10. This will cancel this enrichment solenoid.

Ensure you remove the good wires from connector (the ones from enrichment solenoid), refer to following illustration.



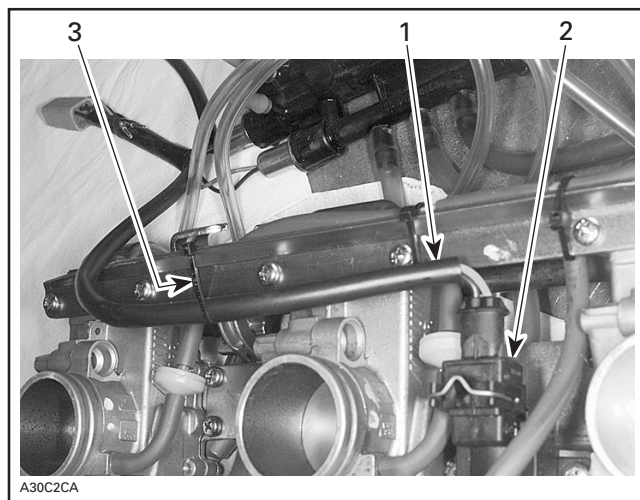
1. RED-GREEN (2) and BLACK (5) wires folded backward and secured with a locking tie
2. Positioning of wires **in male connector housing**
 - 1 — VIOLET
 - 2 — RED-GREEN
 - 3 — RED BLUE
 - 4 — BLACK
 - 5 — BLACK
 - 6 — BLACK

Connect solenoid valve harness **no. 14** to solenoid valve.

Route RED-GREEN and BROWN-GREEN wires from **new solenoid valve** harness through DPM solenoid wires plastic protector and insert their terminals in DPM electrical harness male connector housing to replace previously removed RED-GREEN and BLACK wires.

RED-GREEN replaces RED-GREEN at position 2.
BROWN-GREEN replaces BLACK at position 5.

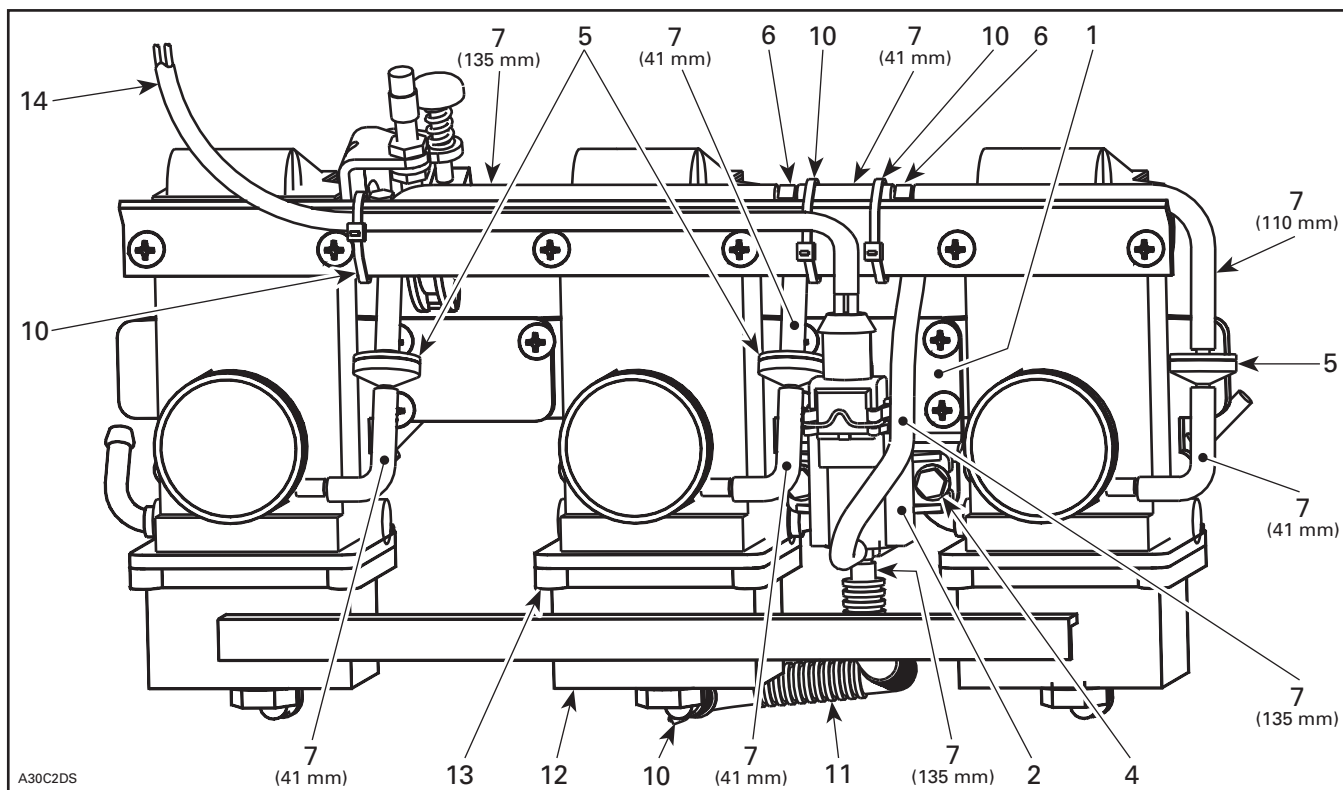
CAUTION: Do not mix their positioning; BROWN-GREEN wire connects on the same side than BLACK wires connect, while RED-GREEN wire connects on the colored wires side.



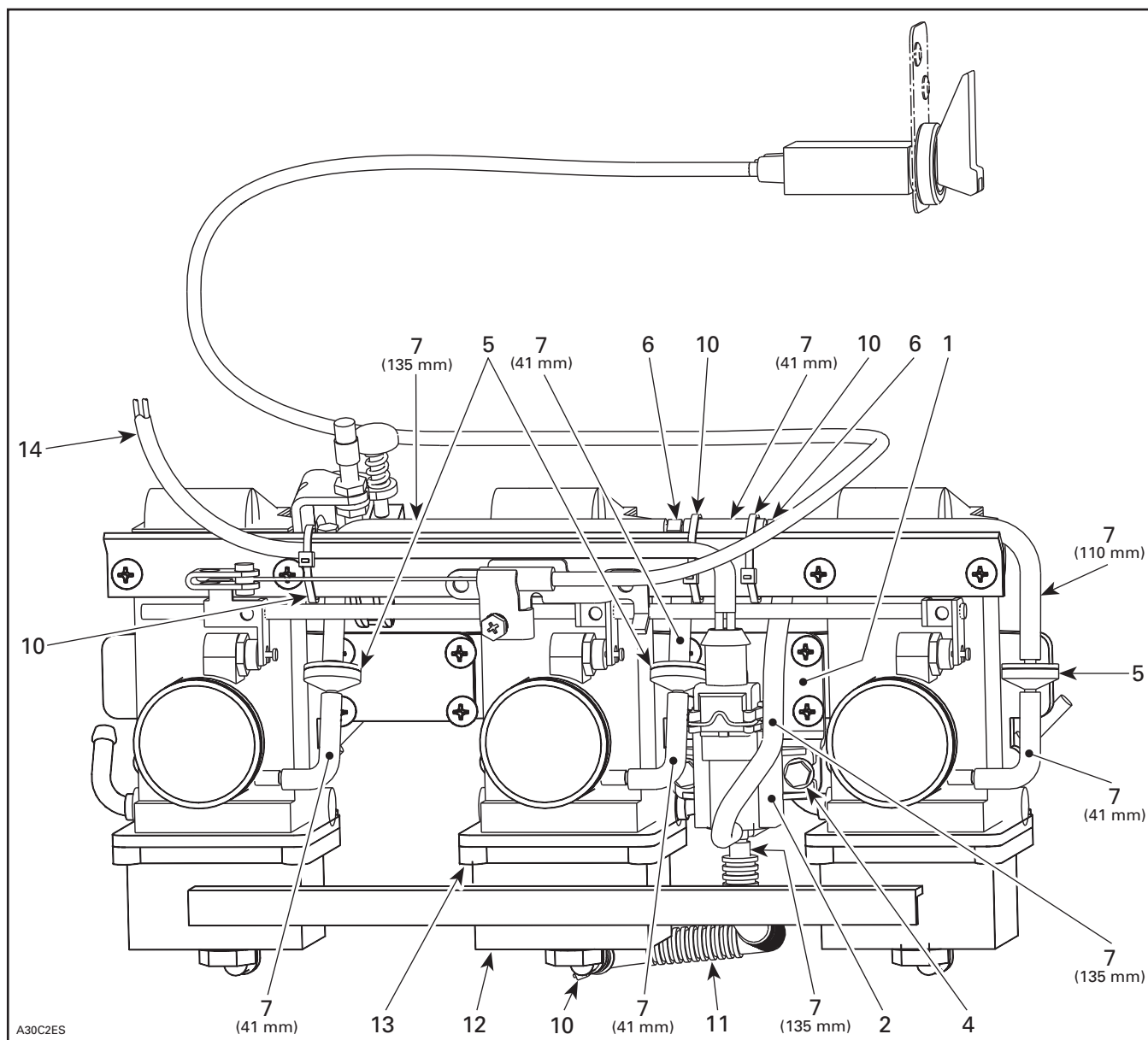
SOLENOID VALVE HARNESS CONNECTED TO SOLENOID VALVE

1. Solenoid valve harness
2. Solenoid valve
3. Locking tie

Using locking tie **no. 10**, secure solenoid valve harness to plate.



FINAL INSTALLATION (1999 MODEL YEAR)
NUMBERS REFER TO "PARTS TO BE INSTALLED" LISTING OF PAGE 2



FINAL INSTALLATION (2000 MODEL YEAR)
NUMBERS REFER TO "PARTS TO BE INSTALLED" LISTING OF PAGE 2

Reinstallation

Refer to proper model year *Shop Manual* for carburetors/DPM reinstallation procedure.

2000 Models

Ensure choke cable is re hooked to air silencer.

1999 and 2000 Models

Ensure throttle cable travel is properly adjusted.

CAUTION: Prior to starting engine, ensure spark plugs are properly gapped at 0.45 ± 0.05 mm (0.018 ± 0.002 in) **otherwise spark plug will prematurely stop firing.**

TRA Clutch Recalibration

For no. 8 ramps installation, refer to *Warranty Bulletins* 99-9 and/or 2000-3, item B.

NOTE: Set calibration screws at position 3.

590 122 000

1.	404 161 966	Solenoid Plate	Plaque de solénoïde
2.	270 600 005	Solenoid Valve	Soupape solénoïde
3.	404 158 700	Cap	Capuchon
4.	210 251 180	Self-Tapping Screw (2)	Vis autotaraudeuse (2)
5.	512 059 286	Check Valve (3)	Soupape d'arrêt (3)
6.	414 222 400	T-Fitting (2)	Raccord en «T» (2)
7.	270 500 342	Hose (1 m (39 in))	Boyau (1 m (39 po))
8.	417 222 372	Ramp (3)	Rampe (3)
9.	420 960 770	Cap (3)	Capuchon (3)
10.	293 750 001	Locking Tie (5)	Attache (5)
11.	409 901 700	Protector Tubing (125 mm (5 in))	Gaine de protection (125 mm (5 po))
12.	404 161 965	Float Body	Cuve de flotteur
13.	404 137 000	Float Body O-Ring	Joint torique de la cuve de flotteur
14.	515 175 572	Solenoid Valve Harness	Faisceau de fils de la soupape solénoïde
15.	404 161 825	Compensation Jet 2.0	Gicleur d'appauvrissement 2.0
16.	512 058 921	Vacuum Collector End Cap	Bouchon du collecteur de dépression
17.	512 058 925	Vacuum Collector End Cap O-Ring	Joint torique du bouchon de collecteur de dépression
18.	404 161 826	Compensation Solenoid O-Ring (larger)	Joint torique du solénoïde d'appauvrissement (grand)
19.	404 161 827	Compensation Solenoid Plastic Spacer	Entretoise de plastique du solénoïde d'appauvrissement
20.	404 161 971	Compensation Solenoid O-Ring (smaller)	Joint torique du solénoïde d'appauvrissement (petit)
21.	512 059 402	Nylon Wire (1/2 m (20 in))	Fil de nylon (1/2 m (20 po))
22.	415 080 200	Tubing (102 mm (4 in))	Tube (102 mm (4 po))
23.	293 530 073	Quick Epoxy Kit	Nécessaire de colle époxy à prise rapide

Please route to :

Init.
☐ Service ☐
☐ Sales ☐
☐ Parts ☐



WARRANTY
CAMPAIGN



CAUTION: All involved customers must be notified, all involved units must be corrected as per instructions herein.

Campaign nos.
2000-0003 and
2000-0004

No. **2000-4**

Date: September 1, 2000

**SUBJECT: A) Carburetors Recalibration
and MPEM Replacement
B) Enricher Plunger Shaft "E"
Clip**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER	SUBJECT
2000	Summit* 800 H.M.	1581	All	A/B
2000	MX* Z 800	1635	All	B

Summit* 800 H.M. Model

PROBLEM

Subject A) At altitudes of 2400 m (8000 ft) or more, rider may experience a lack of performance from his snowmobile engine.

Subject B) Furthermore, carburetors enricher plunger shaft "E" clip may come out of position and fall off which could cause damage to plungers.

SOLUTION

A) Change DPM pressure manifold, replace and program MPEM, change carburetor main jets and needles, relocate DPM vent hole.

B) Change plunger shaft and "E" clip.

PARTS REQUIRED

For subject A, required parts are supplied by ordering kit (P/N 590 030 800) through regular channel.

For subject B, required parts have to be **ordered separately** and as per needed quantity only, through regular channel.

Order as per following table.

DESCRIPTION	PART NUMBER	QTY
Set Screw	404 161 949	1
Ring	404 161 951	1
Shaft	404 161 952	1

PROCEDURE

Perform procedure described in attached *Instruction Sheet* (P/N 415 128 110).

WARRANTY

After having completed all procedures (A and B),

complete a warranty claim form using the following information.

Campaign Number	2000-0003
Claim Type	07
Expiry Date	December 31 st 2001
Flat Rate Time	1.1 hours

MX* Z 800 Model

PROBLEM

Subject B only) Carburetors enricher plunger shaft "E" clip may come out of position and fall off which could cause damage to plungers.

SOLUTION

Change plunger shaft and "E" clip.

PARTS REQUIRED

DESCRIPTION	PART NUMBER	QTY
Set Screw	404 161 949	1
Ring	404 161 951	1
Shaft	404 161 952	1

Order parts **as per needed quantity only** through regular channel.

PROCEDURE

Lift hood and remove belt guard.

Unhook DPM pressure manifold with its supports from air silencer.

Remove air silencer.

Remove carburetors from engine intake sockets.

Remove "E" clip retaining plunger shaft.

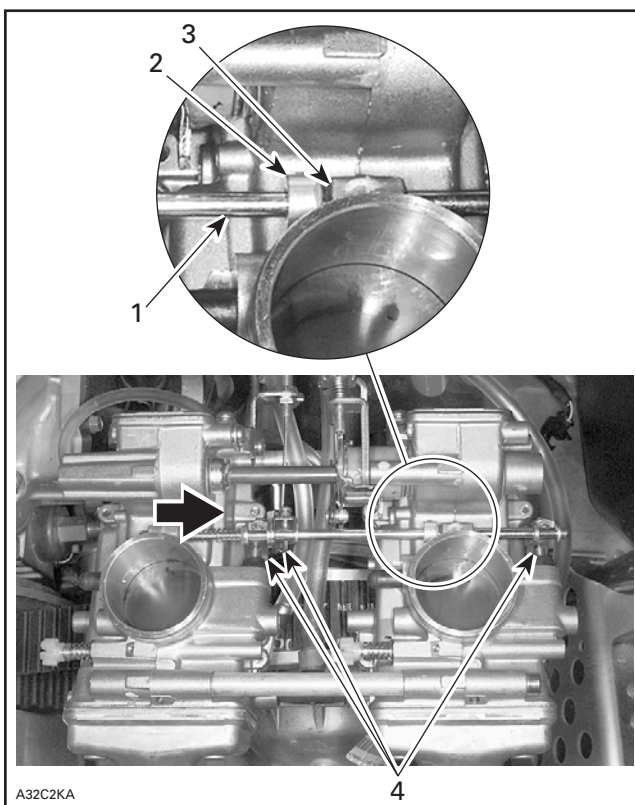
Loosen all 3 lever screws so that shaft can slide freely.

Proceed with **new shaft** installation by inserting it slowly, leaning and pushing on old shaft.

Make sure proper shaft end is inserted first and in the proper direction, starting from MAG side carburetor towards PTO side carburetor.

Before reaching PTO side carburetor, insert **new ring**, secure same with **new set screw** properly indexed, (apply Loctite[†] 243 (blue) on set screw) and **ensure to keep nylon packing which is already there.**

Push shaft till the end, index and tighten all 3 lever screws.



ARROW SHOWS DIRECTION OF INSERTION

1. Shaft
2. Ring
3. Nylon packing already there
4. Levers

Reinstall carburetors, air silencer and DPM pressure manifold.

Ensure throttle cable moves freely and normally.

Reinstall belt guard.

WARRANTY

After having completed procedure (B), complete a warranty claim form using the following information.

Campaign Number	2000-0004
Claim Type	07
Expiry Date	December 31 st 2001
Flat Rate Time	0.5 hour

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

NOTE: Dealers are required to return all replaced parts to support their claim(s).

[†] Loctite is a registered trademark of Loctite Corporation.

Canadian Dealers, return to:

Bombardier Inc.,
Recreational Products,
Warranty Parts Inspection Center,
565 de la Montagne,
Valcourt (Québec)
J0E 2L0

U.S.A. Dealers, return to:

Bombardier Motor Corporation of America,
c/o Warranty Department,
P.O. Box 8006,
7575 Bombardier Court,
Wausau, WI
54402-8006