



POLARIS
The Way Out.

TECHNICAL SERVICE BULLETIN

Snowmobile

Date: February 9, 2007

Bulletin Number: S-07-02A
S-07-02B
S-07-02C
Model Year(s): All 2007 / Select 2006

Safety Bulletin **Service Bulletin** Service Alert Fax Production Update Kit

Distribution: Owner / Principle Service Manager Sales Manager Parts Manager Technicians

This Service Bulletin is located at www.polarisdealers.com

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SUBJECT: 2006 and 2007 FST Chaincase Shim Kit

PURPOSE:

Polaris has determined the chaincase and bulkhead can become mis-aligned under load on most model year 2007 and some model year 2006 FST snowmobiles. When this occurs, the shift fork may "pop" the pinion gear off of the jackshaft thus causing the chaincase to go into a "neutral" state. To prevent this from occurring, it is recommended that the upper-right chaincase-to-bulkhead fasteners be shimmed to better align the chaincase-to-bulkhead surface. This Bulletin has a specific set of instructions for three different scenarios. In an effort to best service our customers, please read each recommendation below carefully.

Affected Models:

Model(s) Affected	Model Numbers	Serial Number Range
2006 FST Classic*	S06PD7FS / S06PD7FE	ALL Reference Unit Inquiry on the dealer website to lookup affected snowmobile VINs.
2006 FST Touring*	S06PT7FS	
2006 FST Switchback*	S06PS7FS	
2007 FST IQ	S07PP7FS / S07PP7FSA / S07PP7FE	
2007 FST IQ LX	S07PD7FS	
2007 FST IQ Touring	S07PT7FS / S07PT7FE	
2007 FST IQ Cruiser	S07PY7FS / S07PY7FE	
2007 FST IQ Switchback	S07PS7FS / S07PS7FE	
* Very few, if any, model year 2006 FSTs will exhibit a popping out of gear issue.		

S-07-02A - NEW, UNREGISTERED UNITS ONLY! - Model Year 2006 & 2007 FST Shim Installation

*** All model year 2006 and 2007 units in your inventory and/or with zero miles ***

For all 2006 and 2007 FST snowmobiles in your inventory and/or with zero miles, follow the instructions within this Service Bulletin (page 4) and install two shims between the upper-right chaincase-to-bulkhead fasteners. After installing the two shims, file a warranty claim for Service Bulletin S-07-02A. *NOTE: Polaris has determined that one shim on each of the two upper-right chaincase-to-bulkhead fasteners should satisfactorily align the chaincase and bulkhead.*

S-07-02A - Parts Information:

PART NUMBER DESCRIPTION	5136157 (Shim) / 7170107 (Completion Decal)
QUANTITY	QTY. 2 (Shims) / QTY. 1 (Completion Decal)
DIRECT-SHIP FROM POLARIS?	NO
TO BE ORDERED BY DEALER?	YES - PN 5136157 (Shim) expected to be available for order the week of February 26, 2007.

S-07-02B - All 2007 FST models - Shim Installation and Fork Replacement

*** All model year 2007 units with miles that "pop" out of gear ***

For all 2007 FST snowmobiles with mileage that exhibit the "popping out of gear" issue, follow the instructions above for shim installation **and** replace the shift fork inside the chaincase. After installing the shims and replacing the shift fork, file a warranty claim for **Service Bulletin S-07-02B**. Retain the original shift fork(s) as any replaced shift fork will be recalled.

Follow the instructions within this Service Bulletin (page 4) and install two shims between the upper-right chaincase-to-bulkhead fasteners and replace the shift fork inside the chaincase. After installing the two shims and replacing the shift fork, file a warranty claim for Service Bulletin S-07-02B. *NOTE: Polaris has determined that one shim on each of the two upper-right chaincase-to-bulkhead fasteners should satisfactorily align the chaincase and bulkhead.*

S-07-02B - Parts Information:

PART NUMBER DESCRIPTION	5136157 (Shim) / 1332315 (Shift Fork) / 7170107 (Completion Decal)
QUANTITY	QTY. 2 (Shims) / QTY. 1 (Shift Fork) / QTY. 1 (Completion Decal)
DIRECT-SHIP FROM POLARIS?	NO
TO BE ORDERED BY DEALER?	YES - PN 5136157 (Shim) expected to be available for order the week of February 26, 2007.

S-07-02C - Select 2006 FST models - Shim Installation and Fork Replacement

*** Only model year 2006 units where a consumer has contacted your dealership with a concern of their snowmobile "popping out of gear" *** *NOTE: Very few model year 2006 FSTs that have had Service Bulletins S-06-01 and S-06-02 performed, will exhibit a "popping out of gear issue". However, if a consumer makes your dealership aware of a problem such as this, please follow the instructions below.*

Follow the instructions within this Service Bulletin (page 4) and install two shims between the upper-right chaincase-to-bulkhead fasteners and replace the shift fork inside the chaincase. After installing the two shims and replacing the shift fork, file a warranty claim for Service Bulletin S-07-02C. *NOTE: Polaris has determined that one shim on each of the two upper-right chaincase-to-bulkhead fasteners should satisfactorily align the chaincase and bulkhead.*

S-07-02C - Parts Information:

PART NUMBER DESCRIPTION	5136157 (Shim) / 1332315 (Shift Fork) / 7170107 (Completion Decal)
QUANTITY	QTY. 2 (Shims) / QTY. 1 (Shift Fork) / QTY. 1 (Completion Decal)
DIRECT-SHIP FROM POLARIS?	NO
TO BE ORDERED BY DEALER?	YES - PN 5136157 (Shim) expected to be available for order the week of February 26, 2007.

WARRANTY CLAIM INFORMATION:

A single group claim may be submitted listing the complete 17-digit VIN for machines WITH THE SAME MODEL NUMBER. File claim type SB (Service Bulletin). DO NOT ENTER MORE THAN ONE MODEL NUMBER ON A WARRANTY CLAIM. All warranty claims must be submitted within 10 days of the repair. Never submit a warranty claim before completing the work. It is in violation of your dealer agreement to submit a warranty claim prior to the work being completed. Removed components are to be retained according to the Polaris Warranty Policy for possible return to the Warranty Department

S-07-02A - Shim Installation Only - All model year 2006 and 2007 units with zero miles

Service Bulletin #	S-07-02A - Shim Installation Only
Claim Type	SB (Service Bulletin)
Labor Allowance	18 Minutes
Claim Part Numbers	N/A - Auto Process Bulletin

S-07-02B - Shim Installation and Shift Fork Replacement Only- All 2007 units with miles and / or exhibit the "pop" out of gear

Service Bulletin #	S-07-02B - Shim Installation and Shift Fork Replacement Only
Claim Type	SB (Service Bulletin)
Labor Allowance	42 Minutes
Claim Part Numbers	N/A - Auto Process Bulletin

S-07-02C - Shim Installation and Shift Fork Replacement Only- Select 2006 units, with miles, that exhibit the "pop" out of gear

Service Bulletin #	S-07-02C - Shim Installation and Shift Fork Replacement Only
Claim Type	SB (Service Bulletin)
Labor Allowance	42 Minutes
Claim Part Numbers	N/A - Auto Process Bulletin

SERVICE BULLETIN COMPLETION DECAL:

Upon completion of this bulletin, fill out and attach a Service Bulletin Completion Decal, PN 7170107. Adhere the decal to the airbox assembly. If you require more decals, order them through normal Polaris parts ordering channels.

CUSTOMER NOTIFICATION:

Dealers are required to notify owners of affected models and make arrangements to perform this repair.

Sincerely,



Laurie J. Rengel
Manager, Service Dealer Development and Warranty

REPAIR INSTRUCTIONS:

NOTE: Reference the FS / FST Service Manual, PN 9920472, for shift fork replacement instructions.

1. Open the hood and remove the exhaust silencer.
2. Using a line clamp pliers, pinch off the oil tank breather hose located underneath the steering column.
3. Place a shop mat or blanket on the floor to protect the left-side of the snowmobile.
4. Rotate the snowmobile on to its left side.
5. Reference the illustration below and install the shims required to align the chaincase housing to the bulkhead panel.
6. Torque chaincase fasteners to 14 ft.lbs (19 Nm).
7. Assemble snowmobile in reverse order. Reference Service Manual for exhaust silencer fastener torque specifications and spring locations.
8. Verify the line clamp pliers has been removed from the oil tank vent hose.

