

2006 Snowmobile Technical Update

TECH TIPS — *Subject:* Mono Shock Suspension Pre-season Maintenance
Model: 2005 RX-1 Models with Mono Shock Suspension

Information:

As part of routine maintenance, the rear suspension should be removed for inspection and lubrication before every riding season. If 2005 Mono Shock suspension components require replacement, note the part numbers provided here to order the latest specification parts. When greasing, use Yamaha Snowmobile Grease (P/N: ACC-SMBGR-EA-SE) or equivalent that is formulated for snowmobile use.

Action:

Remove the rear suspension and inspect closely. Replace worn or damaged parts, and refer to the part information below regarding updated part numbers.

Information:

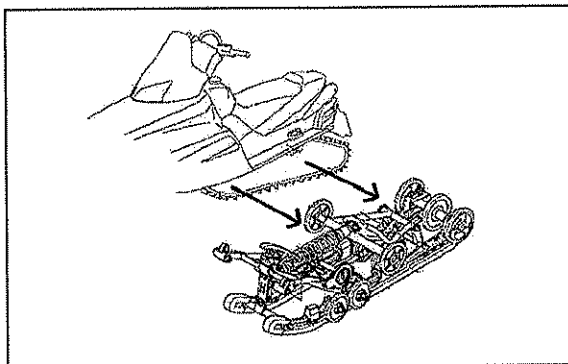
Follow these tips to ease Mono Shock rear suspension removal and replacement.

Suspension R+R

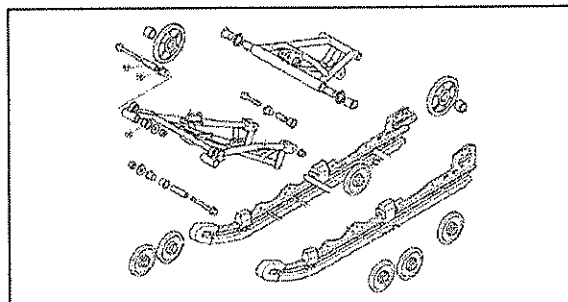
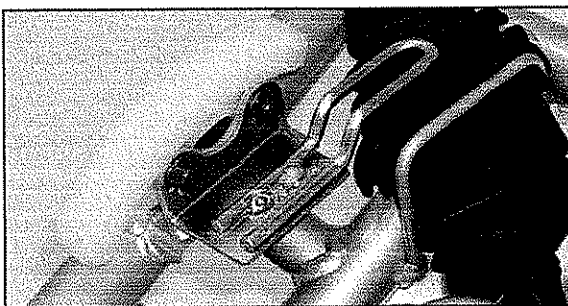
Before removing the suspension, adjust the rear spring preload cam adjuster to the lowest setting. Higher spring preload or a stiffer rear spring will make it more difficult to remove and install mounting bolts. In addition, removing the control rod rear mounting bolt will make it easier to R+R the suspension.

Removal:

- Set the preload cam adjuster to the lowest setting.
- Loosen the rear axle and loosen the track tension.
- Remove the control rod rear mounting bolt.
- Do not disconnect the remote adjuster cable. Remove the three allen-type mounting screws and leave the adjuster assembly and cable attached to the suspension.
- Remove the two rear suspension mounting bolts first, then the two front mounting bolts and remove the suspension.



**RA PROTECTOR KIT, 8FU-RAPRT-KT-00 INSTALLED,
SEE TECH BULLETIN S2005-008**



Installation:

- Set the preload cam adjuster to the lowest setting.
- Position the suspension in the track and tunnel. Install the front suspension mounting bolts first, then the rear bolts.
- Install the control rod rear mounting bolt. It might be necessary to have someone compress the suspension slightly to align the mounting holes and allow bolt installation.
- Install the remote adjuster assembly.
- Adjust the track tension.
- Reset the preload cam adjuster.

For 2005 Mono Shock Models:

- Confirm that the RA Protector Kit (P/N: 8FU-RAPRT-KT-00) has been installed. See Technical Bulletin S2005-008 for information.
- Inspect the suspension components closely for wear or damage.
- If ordering replacement parts for Mono Shock suspension, the following 2006 components should be installed on 2005 models:
 - Front suspension arm
 - Front suspension arm, upper and lower collars and bushings.
 - Small idler wheels

Rail Reinforcement Kit for 2005 Models:

The rear suspension rails have not been changed. If 2005 model rail replacement is required, the Mono Shock Rail Reinforcement Kit (P/N: TBA) should also be installed to avoid repeat rail damage. Installation instructions will be included with the kit.

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Part Information - 2005 Mono Shock Rear Suspension Parts

Part Description	2006 Part Number	2006 Part Comments
Front Arm	8FT-47331-00-00	New design
Front Arm Upper Collars	90387-10042-00	Steel material
Front Arm Upper Bushings	90386-22002-00	New plastic material
Front Arm Lower Collars	90387-10033-00	Steel material (no change)
Front Arm Lower Bushings	90386-15002-00	New plastic material
Idler Wheels	8ES-47310-40-00	New rubber surface
Suspension Rails	8FU-W4741-00-00	No change. If cracked or broken, order 2005 Replacement Rail plus Reinforcement Kit.
Rail Reinforcement Kit	TBA	Rails will need to be drilled.

Bent or damaged rear suspension components indicate the suspension needs adjustments or optional heavier springs may be needed for more aggressive or heavier riders. Refer to Chapter 3 of this book, for suspension tuning and optional spring information.