Button To Tower Clearance Inspection

Inspect for any clearance between spider button to tower.
 If clearance exists, replace all buttons and inspect surface
 of towers. See "Spider Removal" procedure.



Inspect sheave surfaces. Replace the entire clutch as an assembly if worn, damaged or cracked.

Shift Weight Inspection

 If clutch is not disassembled, inspect as shown, using a clutch holding tool to compress the moveable sheave. The contact surface of the weight should be smooth and free of dents or gall marks. Remove shift weight bolts and weights.





Inspect the weight pivot bore and pivot bolts for wear or galling. If weights or bolts are worn or broken, replace in sets of three with new bolts.

NOTE: A damaged shift weight is usually caused by a damaged or stuck roller in the spider assembly. See roller inspection, see "Roller, Pin, and Thrust Washer Inspection".

MARNING

The clutch assembly is a precisely balanced unit. Never replace parts with used parts from another clutch assembly!

All PVT maintenance or repairs should be performed only by a certified Polaris Master Service Dealer (MSD) technician who has received the proper training and understands the procedures outlined in this manual.

Because of the critical nature and precision balance incorporated into the PVT system, it is absolutely essential that no attempt at disassembly or repair be made without factory authorized special tools and service procedures.

Drive Clutch Inspection

NOTE: Remove cover, spring, and spider following instructions for drive clutch removal, then proceed as follows:

 Remove moveable sheave spacer sleeve (1) and the thrust washer (2). Visually inspect the washer for damage. Measure the thickness and compare to specification. Replace if worn or damaged.



Thrust Washer Thickness Standard: .030, (.76mm) Service Limit: .025, (.64mm)

Polaris Sportsman 450 Repair Manual

Chao Zhang

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