

STRAIGHTLINE **PERFORMANCE**



2008-19 QRS Shim Kit 121-211

Parts Included

- 4 - (IT 121-211A) Clutch Side Bearing Shim (ID 55.32, OD 67.76)
- 3 – (IT 121-211B) Bearing Retainer Shim (ID 8.19, OD 13.85)
- 1 – (IT 121-211C) Beveled Gear Side Bearing Shim (ID 26.38, OD 33.6)
- 3 – (IT 121-211D) Gear Side Bearing Shim (ID 25.13, OD 33.6)

Tools Required

- 13mm wrench
- 16mm Socket
- Torque Wrench
- Ratchet
- Red Thread Locker
- Rubber Hammer
- BRP Gear Holder (529036152)

Installation Instructions

1. Remove both side panels, clutch cover, and drive belt to gain access to the clutch and chain case.
2. Measure your clutch offset with the Straightline Performance Universal Alignment Bar(part # 151-102). to determine how much you will need to shim your clutch.
3. Locate the bearing retainer behind the driven clutch, remove the nut with a 13mm wrench and remove the retainer.



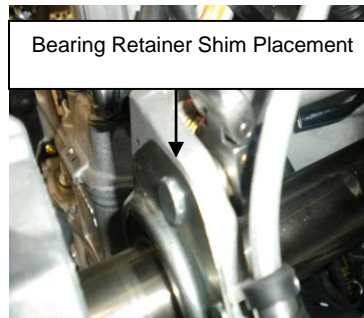
(Bearing Retainer)

4. Use a flat blade screw driver to remove the black rubber cap from the top of the chain case cover.



(Chain Case)

5. Lock the brake to prevent the sled from moving; then remove the bolt from the top drive gear with a 16mm socket.
6. Install the ski-doo Chain Case Gear Retaining Tool (529036152) on the end of the jack shaft.
7. Softly tap the end of the tool with a rubber hammer to disengage the jack shaft from the chassis.
8. Unscrew the tool from the end of the jack shaft but do not remove the tool from the chain case.
9. Install the proper amount of shims (determined in step 2) in the appropriate locations as shown in the pictures below.



NOTE: Install the larger id shim on the gear side of the shaft first then add the standard shims on top of that (marked with a white dot).

NOTE: Only use the bearing retainer shims when shimming the jack shaft 2mm or more.

10. Reinstall the jack shaft in the reverse order that it was removed; making sure the shims seat in their proper location.

TORQUE'S & SPECIFACATION'S

Retainer Nut: 133 in lb

Gear Bolt: 35 ft lb

Clutch Offset: 37 mm