

RACE TECH

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HIGH PERFORMANCE ATV RACE SERIES FRONT SPRING KITS

<QFSK_Race_O1.doc> QFSK ATV Race Series Spring Kits M Wiley-Race Tech © 5-28-08

2 pages

INCLUDES qty 2 of each: Main Springs, Secondary Springs, NPL Collar, Go-Between Collars, and Sizing Rings.

TOOLS REQUIRED: Service Manual, Vise with Soft Jaws TMVJ 065 or equivalent, TSPA 01 Preload Adjusting Tool or Spanner Wrench, ¼" Flat Blade Screwdriver, File (some applications), TSSM 01 Sag Master or Calipers.

DIGITAL VALVING SEARCH (DVS) printout: See DVS at www.racetech.com for your custom spring setup specs.

Support the front of the ATV securely; remove front shocks per the procedure in your service manual. Install the Race Tech Spring Kit as follows:

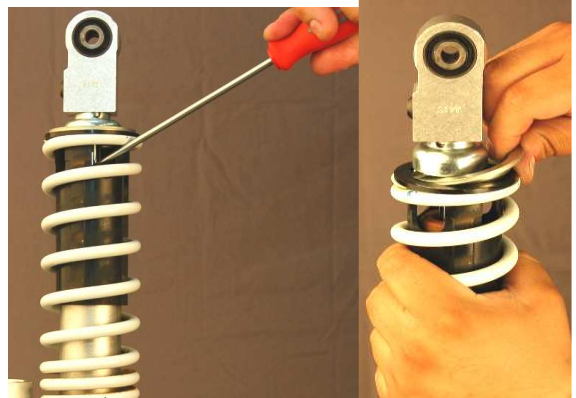
Stock Spring Removal

1. Clamp Shock into a vise with Soft Jaws
2. Loosen Lock Ring.
3. Remove all spring preload using a Spanner Tool or by loosening the Collar by hand.
4. Clean and lube the threads.



Remove the Retaining Collar

1. Use a small Screw Driver or similar tool. Find the opening in the plastic Dust Shield and gently pry the Bottom-out Bumper away from the end of the Shock approximately 50mm (2").
2. Compress the Spring slightly by hand and remove the Retaining Collar being careful not to pinch your fingers!
3. Remove the stock Spring and Dust Shield.



Modify the Stock Eyelet (Yamaha Models)

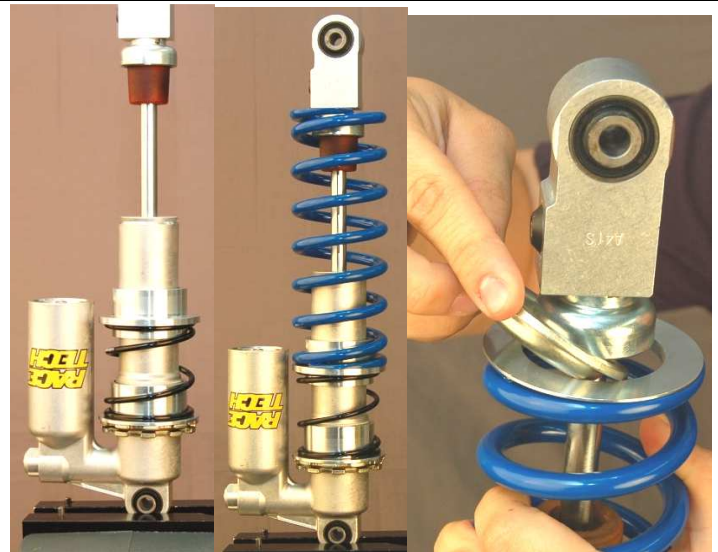
Skip this step if your Go-Between Collar fits over the Eyelet

1. Try installing the Go-Between Collar over the Shock Eyelet. If it does not fit you will need to modify the Eyelet slightly.
2. It only takes a few minutes to chamfer the edges of the Shock Eyelet with a file. Remove approximately .5mm (.100") from each edge as needed so the Go Between Collar slips on.



NPL Collar and Spring Installation

1. Install the NPL Collar (single flange) with the long end of the flange facing towards the bottom of the Shock (upward on the picture).
2. Install the short NPL Spring over the NPL Collar.
3. Install the Go-Between Collar (has two flanges) with the short flange towards the NPL Collar.
4. Install the Main Spring over the Go-Between Collar.
5. Do not use the stock plastic dust shield.
6. Install a Sizing Ring supplied in the Kit.
7. Carefully pull down the Bottom-out Bumper and Main Spring, slide up the metal cup and insert the Retaining Collar under the metal cup.



NPL Gap Setup

1. Refer to the DVS Specs from racetech.com.
2. Adjust the Preload Collar to set the Gap between the flanges of the NPL and Go-Between Collars. Use a Caliper or Tape Measure.

Note:

NPL Gap is the distance between the NPL Collar Flange and the Go-Between Collar Flange that extends into the NPL Spring.

This distance determines the ride height of the ATV. A larger Gap equals a lower Ride Height; a smaller gap equals a higher Ride Height.



Tighten the Lock Ring

1. Gently tighten the Lock Ring against the Preload Collar being careful not to change the Gap.
2. Repeat procedure for the second shock.



If you need assistance please contact Race Tech Tech Support at 951.279.6655