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KAWASAKI ZX-10R (04-26) CLUTCH CUSHION KIT INSTALLATION INSTRUCTIONS

The clutch cushion kit for the Kawasaki ZX-10R is designed to remove 'chatter and grab' associated with normal clutch component assembly wear. This kit helps produce a smooth clutch action while providing excellent feedback to the rider.

Check Package Contents:

The Package Contents include:

1. One (1) Cushion Ring
2. Six (6) Spring Tops
3. Six (6) Heavy Duty Springs (Purple)
4. Two (2) Extra Heavy Duty Springs (Green)
5. Six (6) .280" Shims

If your package contents differ, please contact Brock's Performance at 937-912-0054.

For additional installation support please refer to the OEM service manual.
An installation video is available here.

Brock's Performance ZX-10R Clutch Mod is required to be used with this Clutch Cushion Kit.

Instructions:

1. Remove the clutch cover, clutch springs, pressure plate, clutch pusher, and all discs.
2. Position the small lip (on the recessed/counterbored side) of the Cushion Ring over the rear flange of the inner clutch hub.
   DO NOT INSERT A STEEL PLATE INTO THE ALUMINUM CUSHION RING- See Lip/Flange placement note on the clutch assembly drawing on page 2. The installer will see the smooth side of the cushion ring when properly mounted. The cushion ring must be CENTERED on the rear flange of the inner clutch hub; **NOT** resting on the splines of the inner clutch hub or tilted in any way.
3. Install the OEM base washer and judder spring over the teeth of the inner clutch hub and into the center hole of the cushion ring.
4. Position a thick STEEL plate, with the rounded edge facing AWAY from the engine, over the clutch hub until it touches the Cushion Ring. Be careful not to disturb the Lip/Flange placement. The rounded edge is small; feel for it with your fingers. FYI: There are a total of 9 steels and 9 fibers used: 7 steels 0.114" (2.9mm) thick, 2 steels 0.102" (2.6mm) thick, 8 large pad fibers, and 1 small pad fiber. A detailed drawing is included in the Kawasaki Service Manual. *Special Note*: It is recommended to apply a small amount of oil to the friction plates before installation. There is no need to over-oil the plates!
5. Install a large pad fiber plate then another thick steel, this time with the rounded edge facing TOWARDS the engine. The remaining steels will be positioned in this configuration. Continue the installation: steel/ fiber, until finished with the two (2) thin steels and the small pad fiber. Be sure to insert the outermost fiber drive plate claws into the other slits of the outer basket. A diagram is shown in the Kawasaki service manual. *There will be 1 small pad fiber plate not used.*
6. Reinstall the clutch pusher and pressure plate. Make sure the teeth on the pressure plate mesh with the clutch hub.
7. Install the supplied clutch springs, spring tops, and shims in one of the configurations below:
   a. **For short wheelbase bikes or lighter riders** – (56 lb. x 6) = 336 lb. Install six (6) heavy duty springs (purple) and .280" shims.
   b. **For longer wheelbase bikes or heavier riders** – (56 lb. x 4) + (98 lb. x 2) = 420 lb. Install four (4) heavy duty springs (purple) and .280" shims and two (2) extra heavy duty springs (green). The green springs must be installed directly across from each other. *Do not add shims to green springs.*

   Note: When using heavy duty springs (purple), additional shims may be added. Shims can be purchased at Brocksperformance.com. Do not shim the springs below 0.79" installed height or coil bind will occur.

8. Torque the spring bolts in a cross pattern to 8 lb-ft (11 N·m).
9. Follow the OEM service manual and adjust clutch lever free play.
10. Reinstall the Clutch Cover, torque bolts to 7.5 lb-ft (10 N·m).

ALL BROCK'S PERFORMANCE PRODUCTS ARE DESIGNED FOR CLOSED-COURSE RACETRACK USE ONLY!

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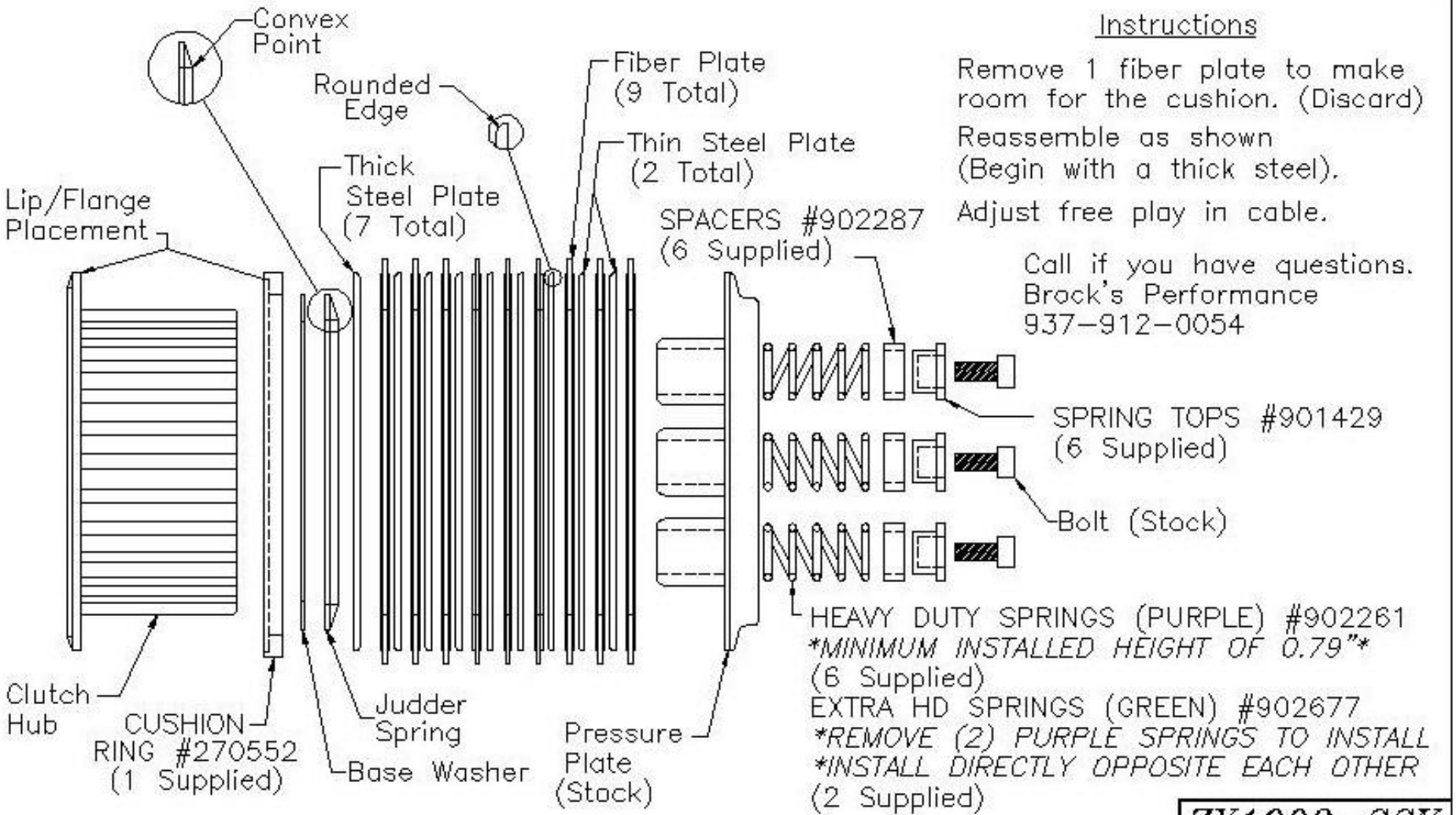
For Questions and Comments:
BrocksPerformance.com > Brock's Support > Customer Service > Contact us or call 937-912-0054



Instructions

Remove 1 fiber plate to make room for the cushion. (Discard)

Reassemble as shown (Begin with a thick steel).

Adjust free play in cable.

Call if you have questions.
Brock's Performance
937-912-0054

NOTE: EXTRA HEAVY DUTY SPRINGS (GREEN) MUST BE INSTALLED DIRECTLY OPPOSITE EACH OTHER TO EQUALLY LOAD THE PRESSURE PLATE.

Clutch Assembly- Side View

Not to Scale – Some detail removed for clarity

ZX1008-CCK

STANDARD TOLERANCE
UNLESS OTHERWISE SPECIFIED
.X = +.030
.XX = +.015
.XXX = +.005
.XXXX = +.0005
FRACTIONS = +.020
ANGLES = +1 DEG
BREAK ALL SHARP CORNERS AND EDGES UNLESS OTHERWISE SPECIFIED

BROCK DAVIDSON ENTERPRISES, INC.
www.BrocksPerformance.com
Assembly Drawing
ZX-10R Clutch Cushion Kit
None | Scott K. | 3/13/10 | 9-13-07
SIZE A | ZX1008_Cushion.dwg

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