



# **PROTUNE STAGE 2 CAP INSTALLATION**

**SHOWA 47 MM**

**KAYABA 48 MM**

**INCLUDES DECAL INSTALLATION**

# PROTUNE STAGE 2 CAP INSTALLATION

## SHOWA 47 MM



- 1** To disassemble the Showa fork cartridge, refer to the manufacturer's disassembly instructions.



- 2** Position the compression assembly wrench flats on the cap into a soft jaw vice.



- 3** Using a thin 13 mm open end wrench or a thin 13 mm crowfoot, fit the wrench between the pressure spring coils. Loosen the jam nut (counter-clockwise) from the Showa compression top cap.



- 4** Using the FOX shaft clamp P/N 803-00-290 (or a suitable shaft clamp substitute), clamp the piston base post into the soft jaw vice.



**NOTE:** You will need to compress the coil spring in order to install the shaft clamps between the free piston and the compression piston backup plate.



- 5** Using the Showa top cap wrench, remove the Showa compression cap and the spring thrust washer (thrust washer will be re-used later with the new FOX compression cap). Clean the threads on the shaft.



- 6** Remove the slotted compression adjuster from the Showa cap by turning the adjuster to fully closed (clockwise). Grip the adjuster with your fingers and turn it counter-clockwise 1-2 turns, while pulling slightly to remove the adjuster from the Showa cap.



- 7** Apply a thin film of light grease onto the adjuster needle threads. Reinstall the adjuster needle into the FOX cap by turning it clockwise 1/2-2 turns. Turn the hex adjuster fully open (counter-clockwise) with a 4 mm hex wrench.



- 8** Apply a thin film of light grease onto the needle shaft and the o-ring.



- 9** Install the spring thrust washer (removed from the Showa cap in step #5) into the FOX cap. Install the FOX cap assembly onto the piston rod (shaft). Thread down and tighten the cap to 45 in-lbs torque with the FOX pin spanner tool (P/N 398-00-249).

**NOTE:** The cap should NOT be against the jam nut at this time.



- 10** Remove the compression cap assembly from the soft jaw vice and remove both shaft clamps from the piston post.



- 11** Place the FOX cap pin spanner tool into a soft jaw vice and tighten the jam nut to 80 in-lbs torque.



- 12** With a 4 mm hex wrench, turn the compression adjuster screw to fully closed (clockwise) then back open to the first detent (click).



- 13** Install the blue FOX adjuster lever and position the lever to zero (0). Tighten the lever set screw to 5-6 in-lbs torque using a T8 torx driver.



- 14** Lightly grease the o-rings on the cap.

- 15** Back the compression adjuster out to fully open (counter-clockwise).

- 16** Reassemble the Showa fork cartridge using the manufacturer's assembly instructions.

# PROTUNE STAGE 2 CAP INSTALLATION

## KAYABA 48 MM



- 1** To disassemble the Kayaba fork cartridge, refer to the manufacturer's disassembly instructions.



- 2** Place the Kayaba cap tool into the top of the compression assembly. Clamp the flats of the tool into a soft jaw vice.



- 3** Using a 14 mm wrench, loosen and remove the compression piston assembly. Clean the threads on the shaft.



- 4** Remove the plastic free piston, the spacer if one exists, the steel spring seats (2), and the coil spring. Place all these parts onto a clean shop towel.



- 5** Remove the assembly from the soft jaw vice and clamp the piston rod shaft with a 10 mm shaft clamp.



- 6** Remove the Kayaba compression cap from the piston rod shaft with the Kayaba cap tool.



- 7** Clean the shaft threads on the cap end and apply a small amount of red Loctite® onto the shaft threads. Be careful not to apply any Loctite to the adjuster parts.



- 8** Install the new FOX compression cap with a FOX pin spanner tool (P/N 398-00-249). Tighten to 85 in-lbs torque.



- 9** Apply a thin film of grease onto the piston rod.



- 10** Install the steel spring seat, the coil spring, one more steel spring seat, the spacer if one exists, and the free piston onto the piston rod.



- 11** With a 4 mm hex wrench, back the compression adjuster out to fully open (counter-clockwise).



- 12** Using a soft blunt tool, depress the tapered needle into the piston rod until it bottoms into the shaft.



- 13** Apply a small amount of red Loctite onto the shaft threads. Be careful not to apply any Loctite to the adjuster parts.



- 14** Install the compression piston assembly. Tighten to 65 in-lbs torque.

**TIP:** Hold the other (cap) end with FOX spanner tool as you apply torque, to tighten the piston assembly.



- 15** With a 4 mm hex wrench, turn the compression adjuster to fully closed (clockwise) until it stops, then turn it back counter-clockwise to first detent (click).

- 16** Install the blue adjuster lever; position the lever to zero (0). Tighten the set screw to 5-6 in-lbs torque with a T8 torx driver.



- 17** Lightly grease the o-rings on the top cap.



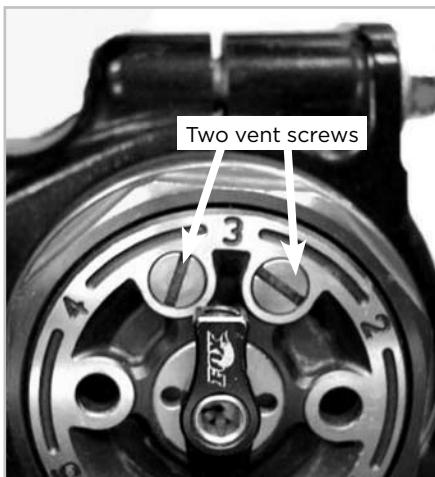
- 18** Back the compression adjuster lever out to fully open (counter-clockwise).

- 19** Reassemble the Kayaba fork cartridge per the manufacturer's assembly instructions.

# DECAL INSTALLATION

## PROTUNE STAGE 2

- 1** Follow manufacturer's assembly instructions. Mount both fork tubes so that the two vent screws face toward the front (rider's perspective).



- 2** Clean both fork upper tubes with soap and water. Dry with a paper towel.



- 3** Select the right fork decal.



- 4** Peel back half of the decal release paper.



- 5** Align the center of the decal with the center line of the right upper tube (non-brake mount side).



- 6** Working from the center, press the decal onto the upper tube. Remove the release paper as you apply. Avoid trapping any air bubbles under the decal as you go.



- 7** Repeat steps 2-6 for the left side fork tube (brake mount side).



- 8** The finished result below.



- 9** Attach the PROTUNE consumer card to the fork for the customer.