Damper Removal And Install with IFP

Tools
3mm hex wrench
1.5mm hex wrench
Cassette Tool
Snap ring plyers (Ribbon/ LOOP)
Small flat blade screwdriver (Stage)
Damper install tool 97-727
Long dowel

Start by removing the compression knob. Use a 3mm hex wrench to unthread the black screw from the center of the cap assembly. Be careful not to lose the detent balls as you loosen the screw and lift the compression knob off the cap assembly. With the cap removed, remove the two detent balls and spring from the indexer then set in a safe place so not to lose them. Also check the small o-ring in the center of the compression knob for any damage and replace if necessary.

Use a 1.5mm hex wrench and loosen the set screw on both side of the indexer until they are flush with the O.D. of the cap. Then lift the indexer off the cap assembly and set aside.

Pull the damper rod to full extension and then with your cassette tool unthread the damper cap from the top of the crown. Once the threads are dis-engaged from the crown, gently pull the damper cap straight out of the crown and damper tube and set aside. Now pour the old used fork oil into a container for recycling. Cycle the damper rod a few times to be sure all oil is evacuated from the stanchion and damper tube.

With all of the oil drained out of the damper stanchion, you will want to insert the damper tool into the inner damper tube so that it rests against the top of the tube. Take your 3mm hex wrench and tighten the center screw of the damper tool until you feel it come to a stop or get firm. Next use your 8mm hex wrench to unthread that damper tube counterclockwise out of the stanchion with the damper tool. Pull the damper tube assembly straight up and out of the stanchion.

Next inspect the white flow bands at the top and bottom of the damper tube for any damage or debris that may affect the performance of the damper. Replace and clean as needed. To remove the damper shaft assembly, first remove the e-clip from the upper flow band then push the protruding peg into the damper tube. With your pinkie finger inserted into the damper tube, gently pull the flow band out of the damper tube and set aside. Next push the damper rod up and out of the top of the damper tube and inspect the rebound piston for any wear, then set aside.

Re-install the damper shaft assembly and the upper wear band into the damper tube. Align the shaft with the rebound plug and gently push the shaft through the rebound plug. When pushing the rebound piston into the damper tube, use gentle force to get the piston band past the flow band groove. Install the upper flow band by aligning the peg on the band with the hole in the

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damper tube. Then push the band down into the tube with your pinky finger so that the peg goes down first and can easily be aligned and inserted into the hole. Make sure the rest of the band fits snugly into the groove and is not sitting crooked. With a flat blade screw driver install the e-clip on to the flow band peg.
Turn the fork upside down and with a flat blade screwdriver or snap ring pliers, remove the snap ring from the groove at the bottom of the stanchion and set aside. With the snap ring removed use a long dowel to push the IFP parts out through the bottom of the stanchion. Clean and inspect the seals on the ID and OD of both the IFP pistons, replace seals if needed and set aside.

Take the damper assembly and insert it into the stanchion through the top of the crown. Thread the damper tube assembly into the stanchion 4-5 revolutions then install the oring that rests on top of the damper flange. Thread the damper tube assembly down until you feel it bottom out then, thread the damper height tool into place. Turn the damper assembly counterclockwise until you feel it becomes firm. Remove the damper height tool and set the tool aside.

Next take the damper IFP and lightly grease the ID and OD seals. Invert the upper assembly of the fork and install the damper IFP onto the damper shaft with the grooved side of the IFP facing the shaft and towards the stanchion. Slide the IFP on the damper shaft until it can be inserted into the stanchion, and carefully push the IFP into the stanchion making sure not to damage the seals. Use a 6” length dowel to push the IFP into the stanchion until you feel it touch the damper tube assembly.

Now carefully insert the Damper Seal into the bottom of the stanchion with the concave facing the stanchion and IFP, there will be a small amount of pressure pushing the seal back. Next install the stanchion plug into the stanchion with the white peg facing the damper seal and install the snap ring into the snap ring groove with a set of snap ring plyers or small screwdriver.

Now that you have the new IFP installed and damper installed, you can bleed the damper as normal. If you are not familiar with bleeding a MRP damper, please reference MRP damper service instructions.