MTT SUSPENSION FORK

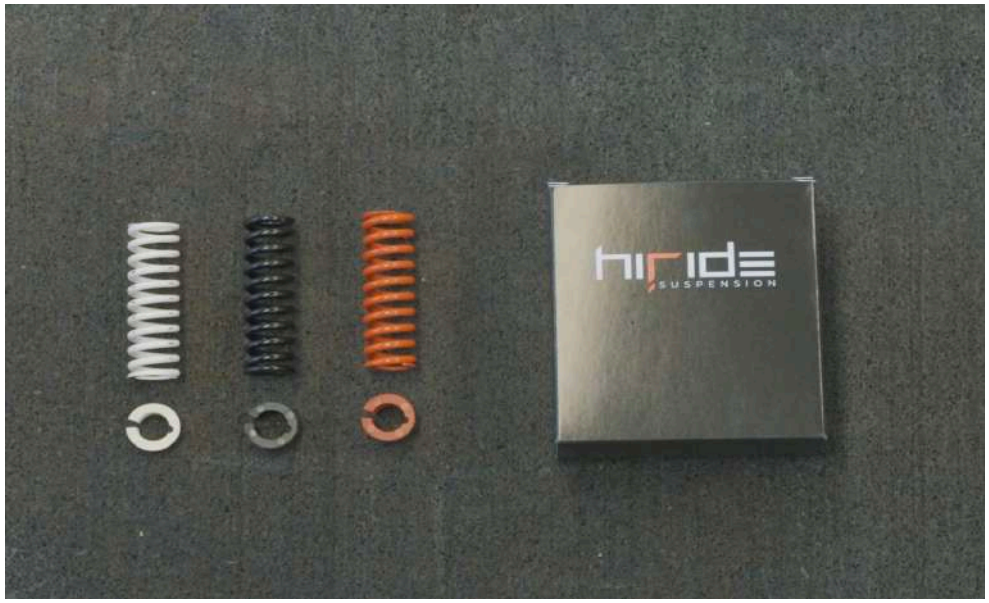
– Spring and Preload Configuration

– Installing and Removing the Suspension Unit

DISCLAIMER

This document is intended for
dealers and expert mechanics only

Parts Required



MTT Suspension Fork Spring Kit

Soft, Medium, Hard

- *Item: 30001753*

The kit contains the springs and Preload spacers

Tools Required

HIRIDE TOOL KIT CONTENT:

- 4.5MM ALLEN KEY
- HIRIDE CUSTOM TOOL

Hiride Tool Kit:

- *Item: 30002092*

Standard Tools & Materials:

- *24mm wrench*
- *8mm Allen key*
- *M8 Screw*
- *Magnet*
- *Pick*
- *13mm socket wrench*
- *Grease*

- Remove the lock-out knob
- Loosen the stem bolts
- Remove the headset compressor using an 8mm Allen key
- Remove the lockout shaft

- Add grease to the 13mm socket wrench so that the top cap nut will stick to the socket once loosened
- Unscrew the top nut in the steerer
- Insert the HiRide Custom Tool in the steerer and engage it with the top cap
- Unscrew the top cap inside the steerer using the 24mm wrench

- The suspension will easily compress once the top cap has been loosened

- De-couple the top cap from the piston shaft using the 4.5mm Allen key.

IMPORTANT NOTES

- The 4.5mm Allen key must be turned CLOCKWISE to de-couple the top cap.
- Hold the tool with both hands to keep the tool aligned

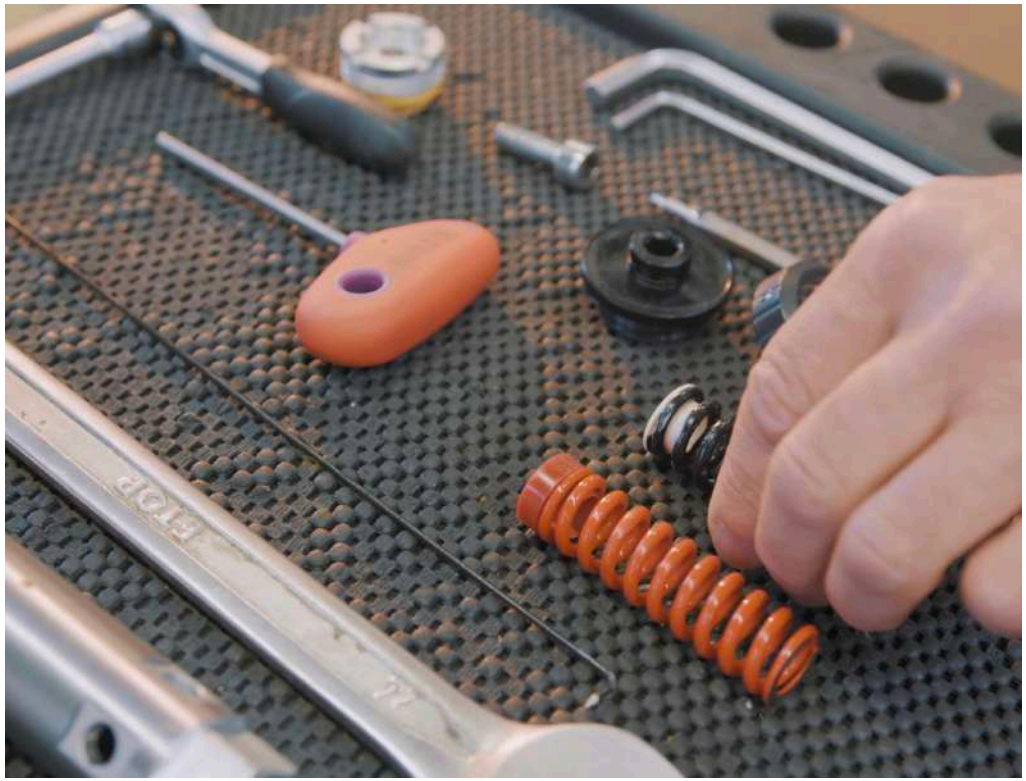
- Pull out the top cap using the pick

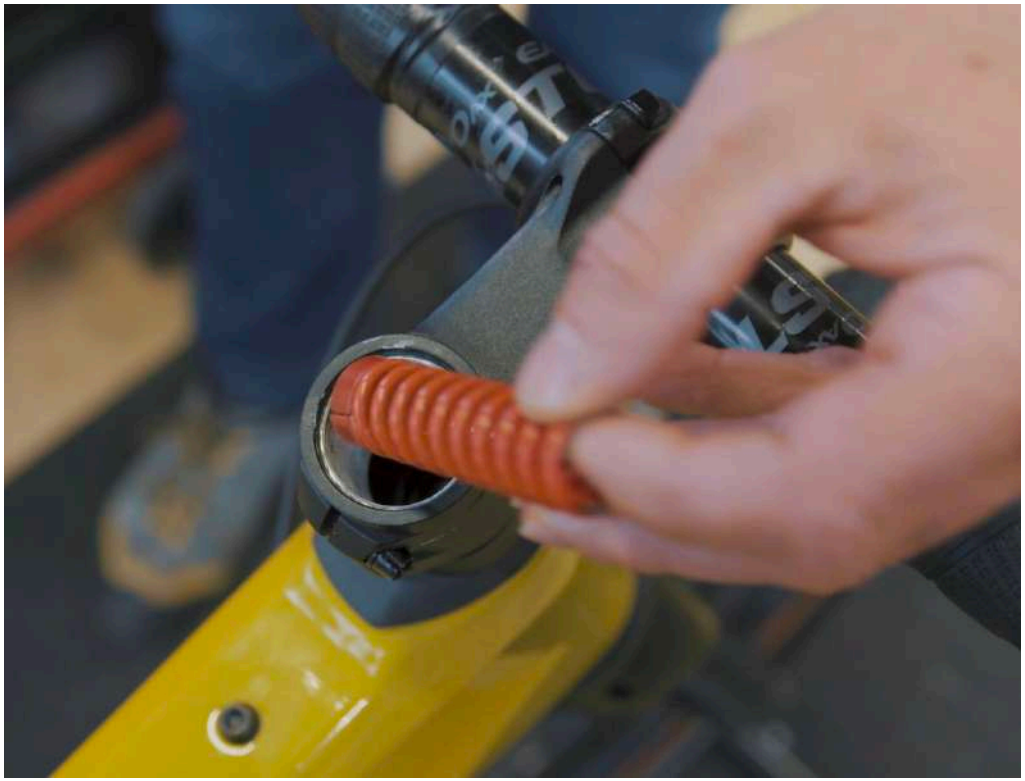
TIP

Fix an M8 Screw in the top cap thread (one rotation is enough) to pull out the top cap from the steerer

- Remove the spring and Preload spacer attached using the magnet

- Select a new spring and Preload configuration (information provided in the next pages) and insert it in the fork.
- Make sure the spring and the preload spacer are inserted correctly with the preload spacer downwards and the spring upwards.





Setup Customisation

The MTT Suspension fork can be customized with three different springs at our retailers using a dedicated tool:

	HARD	MEDIUM	SOFT
STIFFNESS	21.5 N/mm	16.5 N/mm	12 N/mm
COLOR	RED	BLACK	WHITE

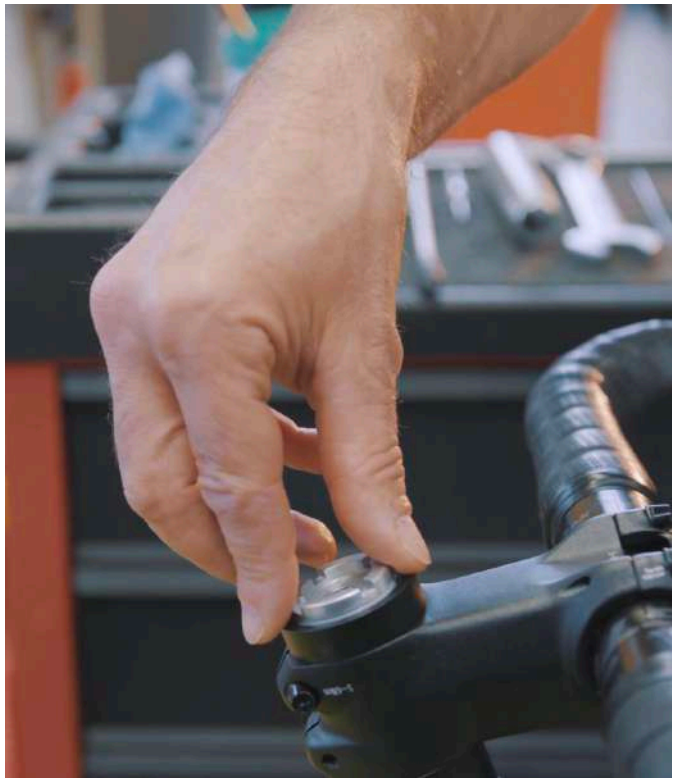
Preload can also be adjusted using dedicated spacers, in order to tune the fork SAG:

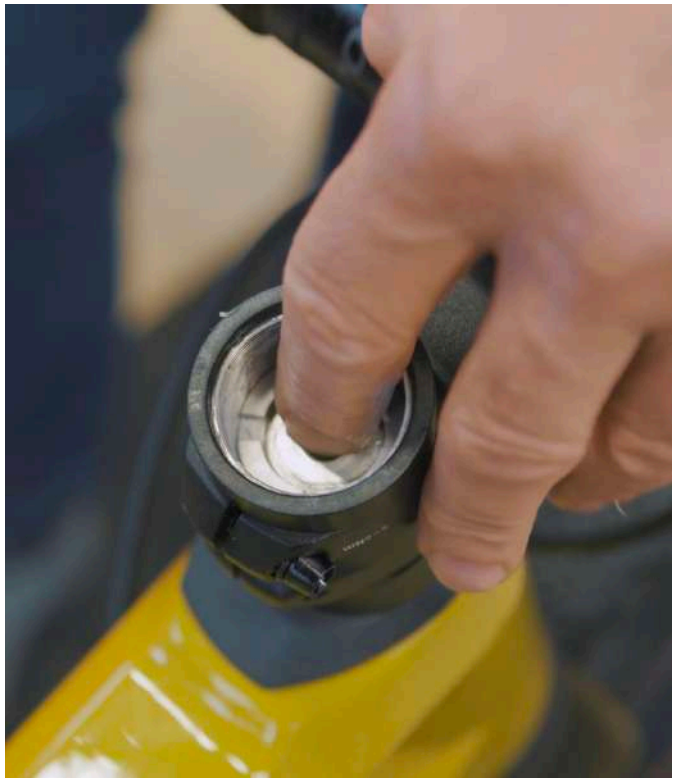
	HIGH	MEDIUM	LOW
PRELOAD	6mm	3mm	1mm
COLOR	RED	BLACK	WHITE

		EASY GRAVEL	MIXED TERRAIN	ROUGH GRAVEL - TRAIL
RIDER WEIGHT <60 Kg	SPRING	Soft Spring WHITE – 12 N/mm	Soft Spring WHITE – 12 N/mm	Soft Spring WHITE – 12 N/mm
	PRELOAD	No Spacer	Low Spacer WHITE – 1 mm	Medium Spacer BLACK – 3 mm
RIDER WEIGHT 60-70 Kg	SPRING	Soft Spring WHITE – 12 N/mm	Soft Spring WHITE – 12 N/mm	Medium Spring BLACK - 16.5 N/mm
	PRELOAD	Medium Spacer BLACK – 3 mm	High Spacer RED – 6 mm	Medium Spacer BLACK – 3 mm
RIDER WEIGHT 70-80 Kg	SPRING	Soft Spring WHITE – 12 N/mm	Medium Spring BLACK - 16.5 N/mm	Hard Spring RED - 21.5 N/mm
	PRELOAD	High Spacer RED – 6 mm	Low Spacer WHITE – 1 mm	Low Spacer WHITE – 1 mm
RIDER WEIGHT 80-90 Kg	SPRING	Medium Spring BLACK - 16.5 N/mm	Medium Spring BLACK - 16.5 N/mm	Hard Spring RED - 21.5 N/mm
	PRELOAD	Low Spacer WHITE – 1 mm	Medium Spacer BLACK – 3 mm	Medium Spacer BLACK – 3 mm
RIDER WEIGHT >90 Kg	SPRING	Hard Spring RED - 21.5 N/mm	Hard Spring RED - 21.5 N/mm	Hard Spring RED - 21.5 N/mm
	PRELOAD	Medium Spacer BLACK – 3 mm	High Spacer RED – 6 mm	High Spacer RED – 6 mm

The setup chart is a recommendation. Users can tune their setup with any spring and preload combination.

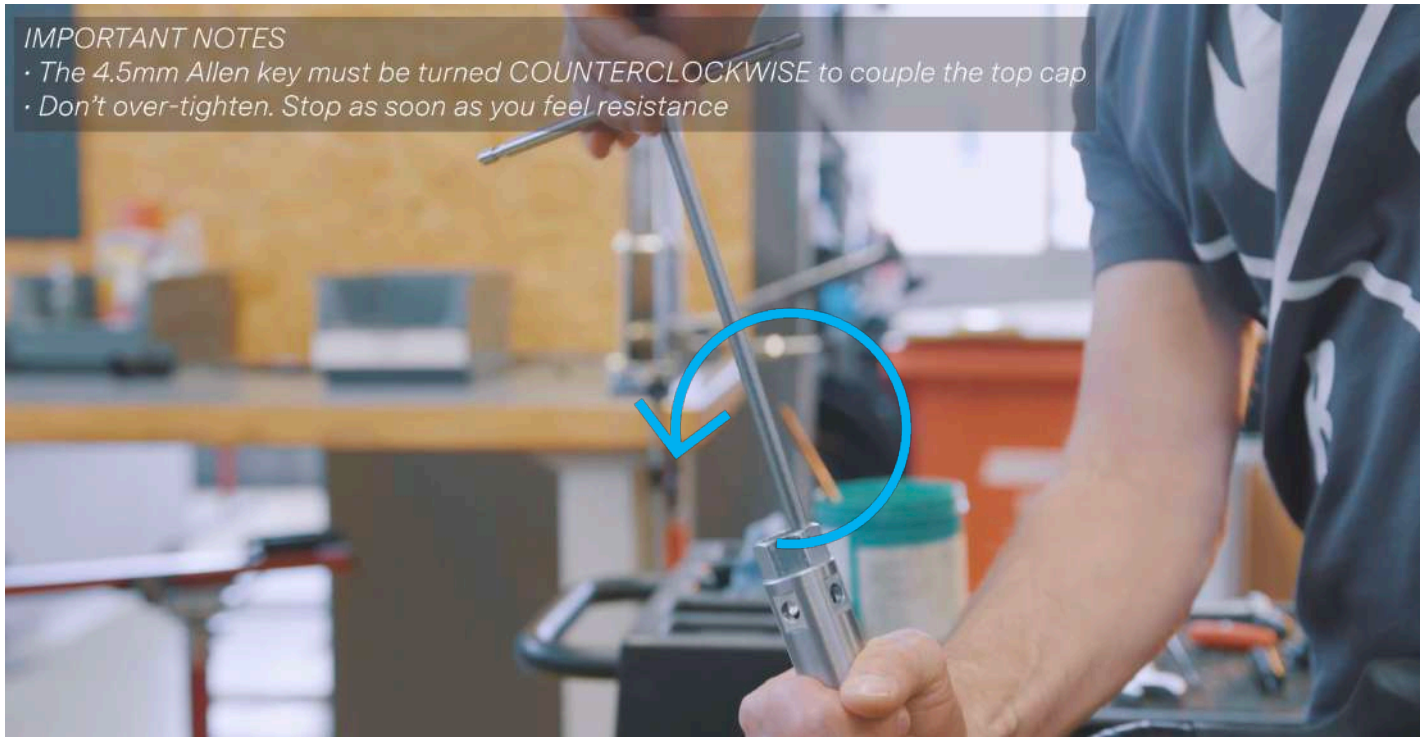
- Insert the top cap using the HiRide custom tool





- Make sure the suspension is full extended before tightening the top cap

- Tighten the top cap to 25 Nm using the 24mm wrench while keeping the suspension extended



- Couple the top cap with the piston shaft using the 4.5mm Allen Key

IMPORTANT NOTES

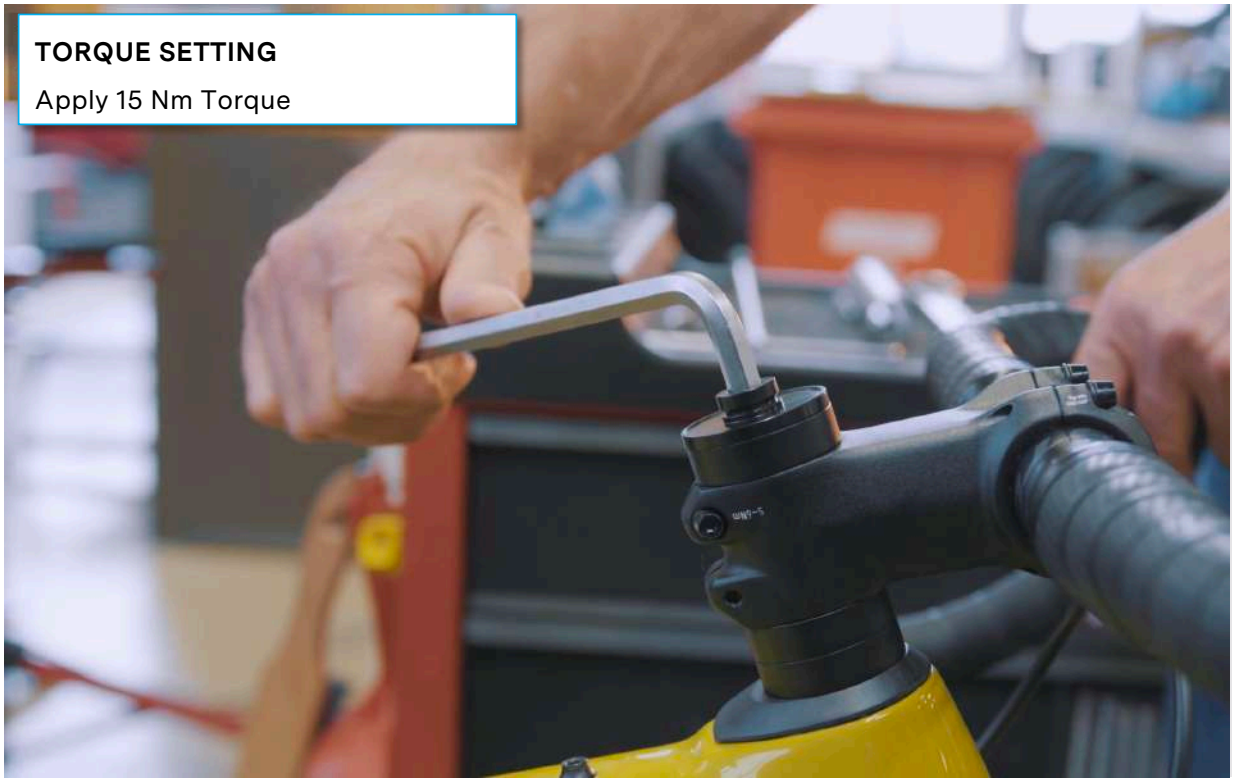
- The 4.5mm Allen key must be turned COUNTERCLOCKWISE to couple the top cap
- Don't over-tighten. Stop as soon as you feel resistance

- Tighten the top nut using the 13mm socket wrench

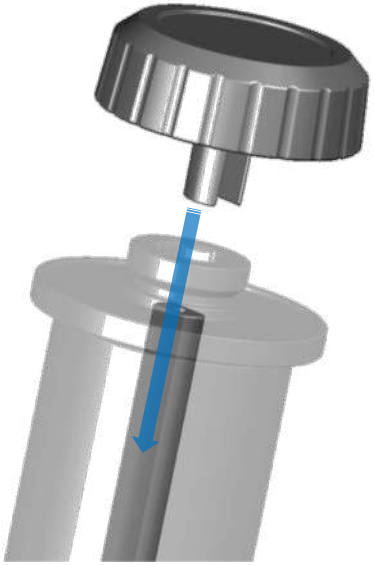
IMPORTANT NOTES

- Don’t over-tighten. Stop as soon as you feel resistance

- Insert the lockout shaft
- Tighten the headset compressor to 15 Nm using the 8mm Allen key



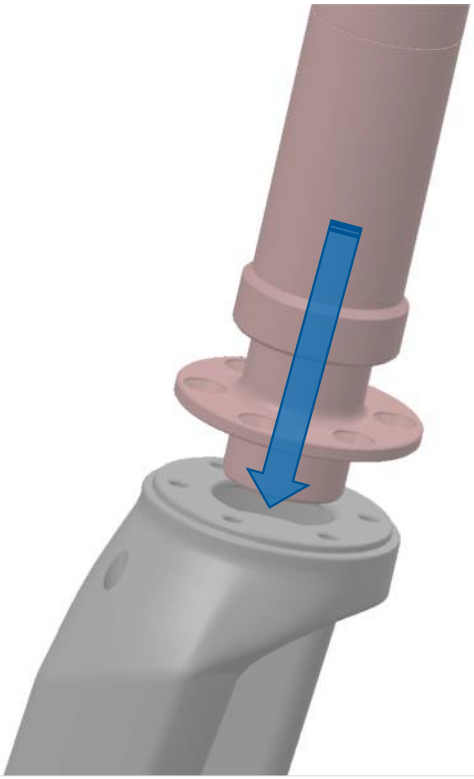
- Tighten the stem bolts
- Take the lock-out knob and look at the headset compressor from above. Before installing the lock-out knob, make sure that the lock-out knob flaps are aligned with the lock-out shaft, in order to engage it properly.
- Install the lock-out knob by gently pressing it on the headset compressor



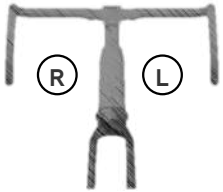
- Test the function of the fork and check for potential play in the headset (with the fork locked out)

Enjoy your new setup!

- Insert the suspension unit in the housing on the fork crown

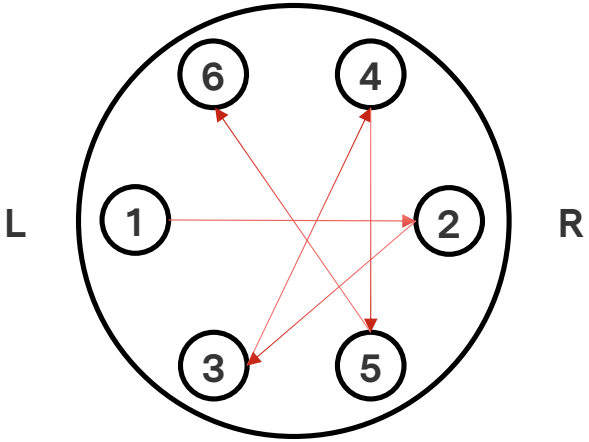


- Align the suspension with the fork: the L mark (non-drive side) and R mark (drive side) must be aligned with the Left and Right bolt holes on the fork crown.



Front View

- Apply Loctite 243 on the bolts and install them without tightening on the fork crown interface plate.
- Tighten the bolts to 6 Nm according to the pattern shown below.
- Tighten now the bolts to 9 Nm (final torque setting) according to the same pattern.



- To remove the suspension unit for service or warranty, remove the bolts and uninstall the suspension unit from its housing on the fork crown.
- **Important note: it's highly recommended to heat the screws with a heat gun to crystallize the Loctite and avoid the risks of stripping or breaking the bolts.**