

ADAPTATION GUIDE OCP

INITIAL SETUP

ROAD & MTB XC2

TRIATHLON & TT

MTB XC3

POSITION 3

POSITION 4

POSITION 2

Q-Rings use your leg muscles at a different rate than round rings, thereby changing your intramuscular coordination of motor units. Following this guide will make your transition

smooth. The duration of each stage varies from a day to a week. Full adaptation takes a minimum of 10 hours, although benefits can be seen right away.

PART 1: ADAPTATION TO Q-RINGS

STAGE

RIDING SENSATIONS

WHAT'S REALLY HAPPENING

STAGE 1:
**INCREASE
PEDAL EFFICIENCY**

Pedaling may initially feel different, possibly leading to a faster or slower cadence than usual, but any jerkiness will gradually smooth out.

You're learning to pedal more efficiently. Muscle fibers are adapting and muscle activation is improving. This usually happens rather quickly.

STAGE 2:
**BETTER USCLE
BALANCE**

You are feeling more capable, more powerful, & you have a better spin when climbing. A new sensation may be felt in stronger or weaker leg muscles as adaptation occurs. Less knee pain for those that suffer from it.

Your leg muscles are starting to achieve a new, more efficient and balanced pedal stroke.

STAGE 3:
FULL ACTIVATION

Your pedal stroke will start to feel smoother now, although it may not yet be perfect. (If you are experiencing joint pain see OCP setup guide below).

Improved biomechanical efficiency allows for full activation of muscle groups, thereby creating more power than with round chainrings. Knee problems are diminished with reduced knee loads.

STAGE 4:
**CUSTOMIZATION
AND FINALIZATION**

If you are in the right OCP position, pedaling will be as smooth or better than before and you will feel more capable. If you are in the wrong OCP position, you won't feel any advantage and may feel uncomfortable. See part 2 to resolve this issue.

Q-Rings reduce your weakness (creating less negative work in the "dead spot") and optimize performance (creating more positive work in the downstroke), enabling you to ride through tough conditions better than with round rings.

It is recommended you complete part 1 (minimum 10 hours riding) before changing your OCP (*Optimum Chainring Position*) setup

PART 2: CUSTOMIZING Q-RING SETUP

SYMPTOM

CAUSE

SOLUTION

- Acceleration and sprinting are easy but maintaining speed is difficult
- Pedaling resistance comes too late/hyperextended ankle
- You need a lower cadence to be comfortable
- Your sit further forward than usual to pedal comfortably
- It is comfortable to pedal standing but not when sitting
- **Pain at the back of the leg behind the knee that you haven't had before**

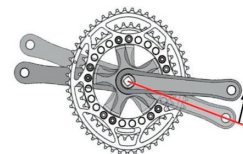
I'm not experiencing any problems; my Q-Rings are working fine.

- Steady speeds are easy but accelerations and sprinting are difficult
- Pedaling resistance occurs too early/hyperflexed ankle
- You need to increase cadence to be comfortable
- You sit further back than usual to pedal comfortably
- It is comfortable to pedal seated but not when standing
- **Pain at the front of the knee that you haven't had before**

**You are arriving
at the max chainring
diameter too late
(OCP number too big)**

Reduce* OCP number by ONLY 1 step

5 → 4
4 → 3
3 → 2
2 → 1

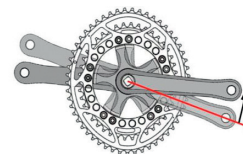


You are already in an optimal position!

**You are arriving
at the max chainring
diameter too soon
(OCP number
too small)**

Increase* OCP number by ONLY 1 step

1 → 2
2 → 3
3 → 4
4 → 5



Different bikes may need different OCP positions / Adjacent chainrings may need different positions / XC3 rings only have 3 positions / XC2 rings only have positions 2-4.

(*) 1/2 step if you have a MAS spider