

SUMMARY

| ABOUT THIS GUIDE |
|---------------------------------------|
| SYMBOLS AND WARNINGS |
| TERMS OF USE |
| ASTM CLASSIFICATION |
| ANGLE ADJUST HEADSET |
| SADDLE CLEARANCE |
| SETTING REAR SUSPENSION |
| TIGHTENING TORQUE |
| MAINTENANCE OF YOUR SCOR 4060 Z FRAME |
| COMPLIANCE |
| TECHNICAL INFORMATION & COMPATIBILITY |
| SCOR 4060 Z GEOMETRY |
| FOR THE NERDS |
| SPARE PARTS |
| WARRANTY TERMS AND CONDITIONS |

ABOUT THIS GUIDE

This guide does not replace the printed manuals supplied with the bike. Please ensure that you are familiar with the original instruction manual and with manuals of the drive system and battery. The manuals for the drive system and the battery was also sent with the bike and are available under the link...

This guide refers exclusively to the SCOR 4060 Z ST and SCOR 4060 Z LT e-bikes and has been created to ensure the safe and proper handling of your frame, so we suggest you read it carefully. The following instructions might require specific technical knowledge and skills. If you have any questions after reading this guide, please do not hesitate to contact us.

We kindly invite all riders to read at least the chapter "terms of use" found in this guide.

SCOR will not be responsible for any loss or damage of any kind incurred as a result of failure to comply with the instructions specified in this guide.

You have chosen a SCOR mountain bike, and we want to thank you for trusting us. Our frames are manufactured with great care, we use the best design, testing, manufacturing processes and technologies to deliver riders the best possible equipment.

The assembly and maintenance of SCOR bikes require some special tools and skills, so we recommend that you consult an expert mechanic in case of a doubt.

We hope that you will enjoy riding your SCOR mountain bike as much as we did enjoy creating it.

If you have any issue, feedback or simply to say hello, please contact us through the following email: info@scor-mtb.com

SYMBOLS AND WARNINGS

a risk of injury and/or death.

This guide contains different symbols that have different meanings. Most of them are meant to raise your attention to some aspects you should consider.

NOTE: This symbol indicates information that you should consider with great care

Please consider and understand the intended use of your SCOR 4060 Z e-bike. Improper use can lead to injury and/or death.

TERMS OF USE

$\underline{\mathbb{N}}$

and not following

Improper use of the e-bike and not following the instructions in this guide will void warranty.

The SCOR 4060 Z frame / module / complete bike is designed for a maximum total system weight of 130 kg. System weight refers to: bike + rider fully kitted + cargo = total system weight

TIPS: This symbol indicates very helpful but not mandatory instructions and advises. Following them will make your experience with SCOR even more enjoyable

Ţ





CAUTION: This symbol is a warning for you to consider with great care.

Ignoring this information can lead to damaging your frame and running

ASTM CLASSIFICATION

The following information refers to the voluntary regulation ASTM F2043-13 Standard Classification for Bicycle Usage from ASTM International.



Λ

This e-bike, like every equipment, is not indestructible and has to be used with care. Abusive use will lead to potential failure, injury and/or death.

This indication establishes the conditions of use only of the SCOR 4060 Z frame. The SCOR 4060 Z frame is classified in category 4.

This is a set of conditions for operation of a bicycle that includes Conditions 1, 2, and 3, or downhill grades on rough trails at speeds less than 40 km/h (25 mph), or both. Jumps are intended to be less than 122cm (48").



Your SCOR 4060 Z e-bike is specified with a special headset which offers a 1.5° angle adjustment. 4060 Z LT e-bikes are originally assembled in the slacker position, 4060 Z ST e-bikes in the steeper position. If can adjust the head angle by by turning the headset cups by 180°.

Please see **Fig.1** for the full assembly overview. Then pick you desired head angle and press the cups accordingly as shown in **Fig. 2&3**.



you can ride your SCOR 4060 Z in both head angle setting without restrictions, just remember this has consequences on the overall geometry. Please refer to the geometry chart to understand what you are getting.



The lower cup is not round but slightly oval. This should help with cup/frame alignment, but you should be careful and start pressing in the correct position or you may damage your frame.

Fig.1 – Angle adjust headset

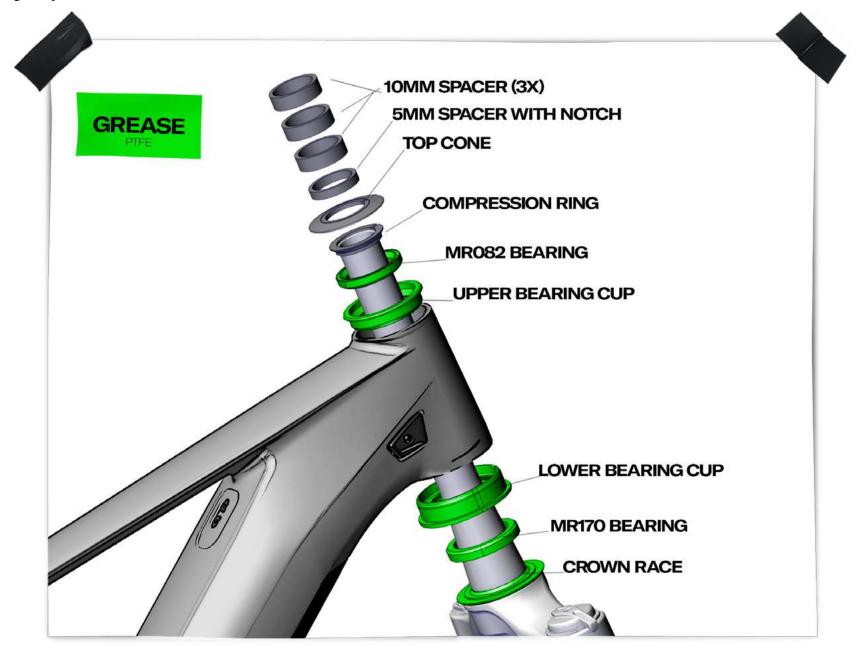


Fig.2 – Slacker head angle setup Long Travel setting: Notch facing <u>forward</u>



"

Fig.3 – Steeper head angle setup Short Travel setting: Notch facing <u>backward</u>





Please make sure that you have 30mm of clearance between the saddle and the rear tire when the suspension is fully compressed, as shown in **Fig. 4**. If this clearance is not respected, rear tire / saddle contact can lead to damaging the aforementioned components. Not respecting this mandatory clearance will void warranty.



\triangle Setting rear suspension \triangle

The SCOR 4060 Z has been designed for optimal suspension performance with 28/30% SAG at the rear shock. Since the frame can accept either 55mm or 47.5mm stroke shocks, please make sure you setup your suspension accordingly before using it.

For your information, SAG values are the following (measured on the shock):

For your information, SAG values are the following (measured on the shock):

| Shock stroke | 28% SAG | 30% SAG |
|--------------|---------|---------|
| 55mm | 15.4mm | 16.5mm |
| 47.5mm | 13.3mm | 14.3mm |

Please refer to the rear shock manual for additional information about adjusting your suspension.

Ŵ

There is a "flip chip" located on the shock attachment to the suspension lower link mount.

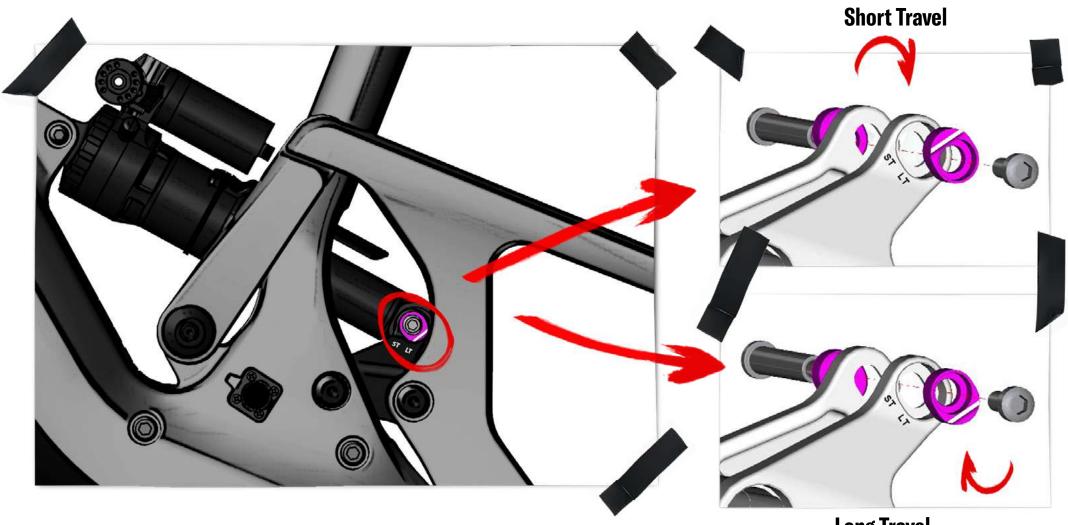
Please install your shock according to the <u>Fig.5</u> – Flip chip arrangement here below.



If you fail following the flip chip arrangement, you may risk some tire rub on the seat tube under full bottom out of the rear suspension. In order to prevent wrongdoings, we have designed the "huck plate" which protects the structural integrity of the seat tube. If you see evidence of tire rub onto the "huck plate", please stop riding and :

- check your tire dimensions & pressure
- replace the "huck plate" (contact us to get a replacement)

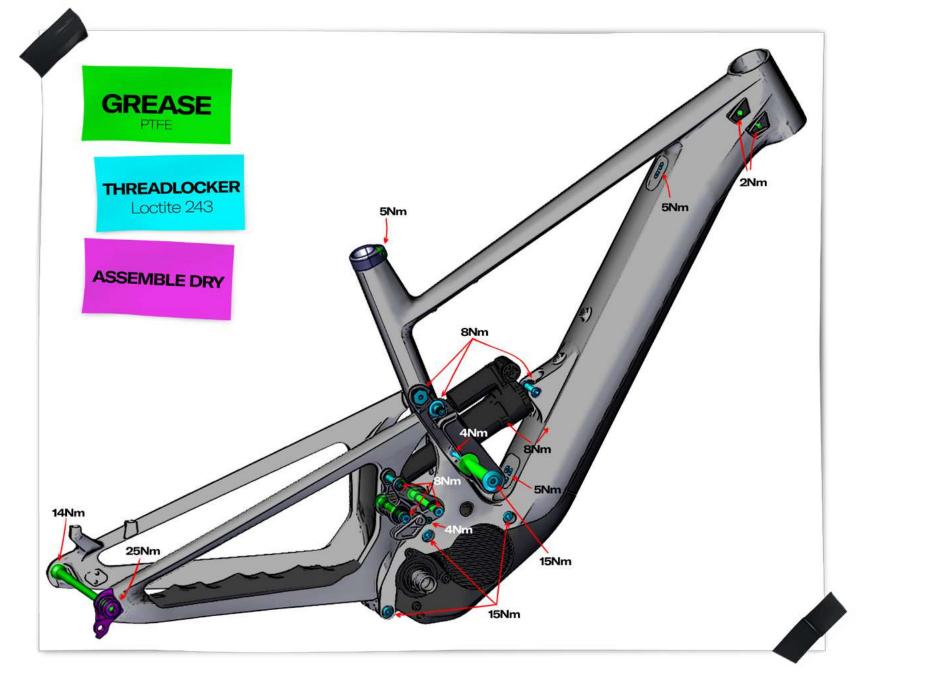
Not respecting these mandatory instructions will disqualify any warranty claim about structural damage of your frame.



Long Travel

▲ TIGHTENING TORQUE

All frame bolts must be tightened with a properly calibrated torque wrench. Please refer to the technical manual for torque values.



\triangle battery removal & installation \triangle

Before you remove the battery please make sure that the e-bike is switched off !

The battery can be removed from the bike for charging or bike maintenance. The removal / installation procedure MUST be followed in order to avoid any damage to the battery locking mechanism.

Battery removal :

1. Use a 4mm allen key to release the battery lock.



Turn clockwise to release the locking mechanism To release or lock the battery not much torque is needed – they allen key is need as lock key and not to tighten the screw!

- 2. When the battery is released, it should be retained by a small spring-loaded latch. This is to prevent the battery falling off the bike onto the ground.
- 3. Gently push on the spring-loaded latch to release the battery.



keep a hand below the battery to grab it as it's now free to fall on the ground. Please remember that it weights 3.8kg, no flimsy hands allowed! 4. Grab the battery in a down, then forward movement to remove it from the bike.

Battery installation :

- 1. Insert the battery in the down tube by placing and aligning the contact at the lower part with the battery contacts of the e-bike.
- 2. Push up the upper part of the battery until you hear a distinct and audible click, meaning the battery is engaged into both latch and locking mechanism.
- 3. Check for a solid fixation by gently pulling down. If the battery is not fully engaged, it will come out (retained by the latch). Repeat step 2 until successful engagement.

Check the installation video :

https://youtu.be/oO1AJ6dWv54



MAINTENANCE OF YOUR SCOR 4060 Z FRAME

or components.





Check original operating instruction

Please avoid cleaning your bike with a pressure washer. Using a pressure washer to clean your bike will push water and dirt in areas where it's difficult to drain/dry naturally. The extensive use of pressure washer will lead to premature wear of the suspension bearing, pivot axles and the frame itself. The abuse of pressure washer will void the warranty.

Keep your bike clean. For proper operation, best and long-lasting performance, your bike should be clean. Use water with mild soap to carfully wash

your bike, and while you are at it you can check for any damage to the frame



Solvents and cleaning agents

Please do not use solvents or cleaning agents other than mild soap. The use of these products can lead to permanent damage to the frame finish.

Ţ

Keep your bike lubed. Once your bike is clean, you should check and add appropriate lubrication to the following parts of your bike:

Thru -axle: slight layer of PTFE based grease on the axle and threads

• Chain: a few drops of bicycle specific chain lube will keep your drivetrain running smooth.

$\underline{\mathbb{N}}$

Do not use conventional grease inside the seat tube of your SCOR carbon fiber frame. This area needs carbon assembly paste which is supplied with your frame (check the small parts box). Using conventional grease in the seat tube can lead to permanent seat post slippage.

Ţ

Inspect your frame regularly, at least once every month. Look for anything that would compromise the operation of the frame like dents, cracks, bumps or loose bolts and/or components. The frame must not be used if anything preventing perfect operation is found, and this must remain the case until the appropriate repair or component replacement has been conducted. If you ride more than 3 times per week, and/or in adverse conditions such as rain/mud/snow, you should inspect your frame weekly as some parts may wear at a faster pace. In general, the components of a bike will wear at a different pace, depending on usage, weather, materials and maintenance cycles.

$\underline{\mathbb{N}}$

COMPLIANCE

SCOR frames comply with the following regulations :

- · ISO4210
- EN14766 Mountain bikes
- EN14761 general purpose bicycles
- EN15194 Pedelec / e-bikes
- EPAC pedal assist electric bicycles

If you notice some surface cracking, paint cracking, abnormal surface scratches, abnormal color changing, please stop riding your frame and contact SCOR for advice a potential solution to the problem that is approved by SCOR.

After an impact or heavy crash, please inspect your frame once you have checked yourself for potential injury. Look for some surface cracking, paint cracking, abnormal surface scratches, abnormal color changing. If you find anything abnormal, please stop riding your frame and contact SCOR for advice a potential solution to the problem that is approved by SCOR.



Frame modification

Do not try to modify any structural part of your SCOR frame, keep it as the assembly you received. Any modification listed will void the warranty and lead to potential injury and/or death :

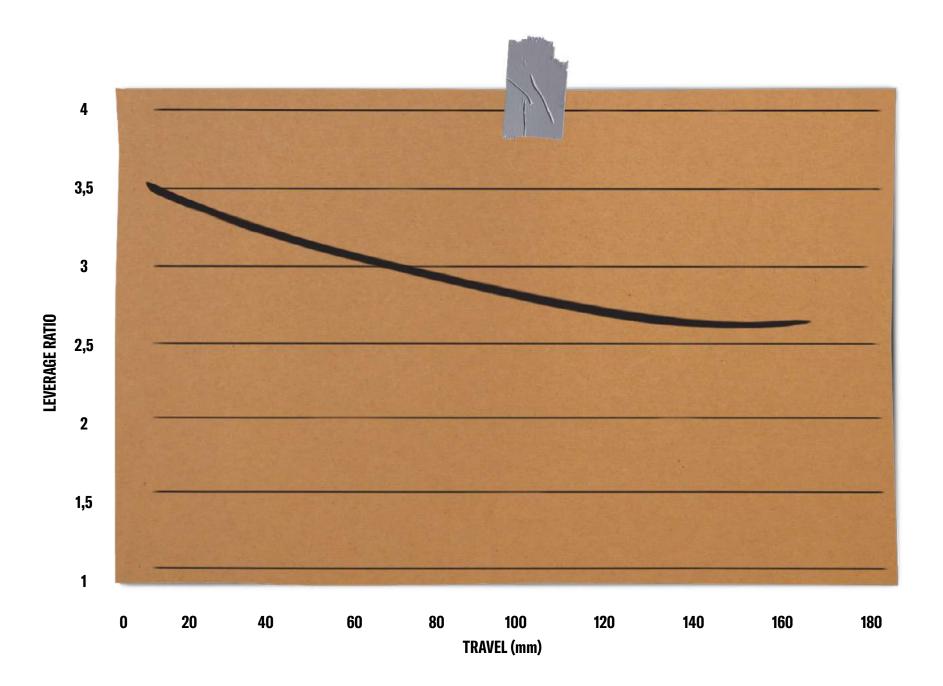
- Frame sanding
- Frame drilling
- Frame filling
- Suspension linkage modifications
- Headset system modifications

TECHNICAL INFORMATION & COMPATIBILITY

| SCOR 4060 Z technical specifications | |
|--|---|
| Rear wheel spacing | 148x12mm (Boost) |
| Thru axle lenght / diameter / thread pitch | 181mm / 12mm / 1,0 |
| Derailleur hanger | SRAM UDH |
| Seat post diameter | 31,6mm |
| seat clamp diameter | 34,9mm |
| Headset type | Custom tapered / head angle adjust |
| Upper headset bearing | FSA - MR168 (34x46,8x7mm, 45°angle / 45° chamfer), Also known as: MR082, MH-P17, TH-970, 160-6738 |
| Lower headset bearing | FSA - MR170 (40x52x7mm, 45°angle / 45° chamfer) |
| Recommended fork crown diameter | 58mm |
| Recommended fork lenght (Axle to Crown) | LT : 577 - 586mm / ST : 557 -561mm |
| Recommended fork travel | 170mm / 150mm |
| Max fork lenght / travel | 596 mm / 180mm |
| Recommended fork offset | 42/44mm |
| Bottom bracket | Shimano EP8 |
| Chainguide | SCOR proprietary |

| Rear brake mount | Disc PM7 (post mount 180mm) |
|----------------------------------|--|
| Front derailleur mount | N/A |
| Shock eye-to-eye | 210mm |
| Shock stroke | 55 or 47,5mm |
| Shock hardware shaft eyelet | 20x8mm |
| shock hardware body eyelet | 30x8mm |
| shock tune Rockshox SDLX Ult RCT | Reb. rM / check rL / Comp. L /hf 320 / DB2 |
| shock tune Fox Float X | CL / RM / Rezi CM |
| bottle cage mounts | 1 + 1 accessory mounting point |

| COMPATIBILITY | | | | |
|-----------------------------------|--|--|--|--|
| Max rear rotor size | 203mm | | | |
| Max rear tire size (widest point) | 64mm width / 750mm diameter | | | |
| Max chainring size | 34 round / 32 oval | | | |
| Max seatpost insertion | S - 435: 205mm / M - 459: 235mm / L - 485: 250mm / XL - 515: 295mm | | | |
| Min seatpost insertion | S - 435: 80mm / M - 459: 100mm / L - 485:100mm / XL - 515: 100mm | | | |



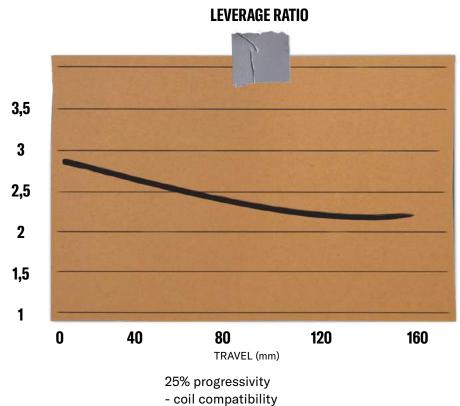
Ν,



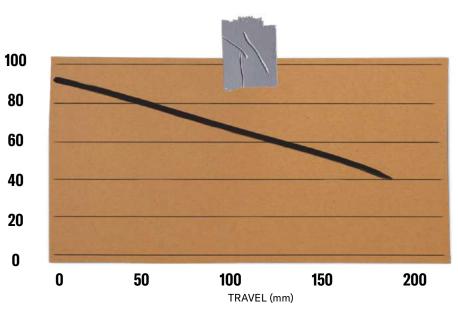
| SCOR 4060 Z GEOMETRY 160mm | | 160mm | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Travel configuration | | | | | | | | |
| Size | 4 | 33 | 457 | | 483 | | 513 | |
| HT setup | Slack | Steep | Slack | Steep | Slack | Steep | Slack | Steep |
| A. Stack | 601 | 603 | 612 | 615 | 626 | 629 | 637 | 640 |
| B. Reach | 435 | 431 | 459 | 456 | 485 | 481 | 515 | 511 |
| C. Seat Tube lenght | 400 | 400 | 425 | 425 | 440 | 440 | 470 | 470 |
| D. Top Tube (virtual) | 562 | 564 | 590 | 592 | 621 | 623 | 655 | 657 |
| E. Chainstay | 435 | 435 | 435 | 435 | 435 | 435 | 435 | 435 |
| F. Wheelbase | 1206 | 1193 | 1230 | 1217 | 1255 | 1242 | 1285 | 1272 |
| G. BB drop | 19 | 16 | 19 | 16 | 19 | 16 | 19 | 16 |
| H. Estimated BB height | 350 | 353 | 350 | 353 | 350 | 353 | 350 | 353 |
| I. Head Tube | 87 | 87 | 99 | 99 | 115 | 115 | 127 | 127 |
| J. HT Angle | 63,8 | 65 | 63,8 | 65 | 63,8 | 65 | 63,8 | 65 |
| Fork Length | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 |
| Front Center | 773 | 761 | 798 | 785 | 823 | 810 | 853 | 840 |
| K. Fork Rake | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| ST Angle SCOR (750mm saddle height) | 76,5 | 76 | 76,5 | 76 | 76,5 | 76 | 76,5 | 76 |
| ST Angle actual | 69 | 68,5 | 69 | 68,5 | 69 | 68,5 | 69 | 68,5 |
| L. ST Angle effective (industry standard) | 77,9 | 77,4 | 77,9 | 77,4 | 77,9 | 77,4 | 77,9 | 77,4 |
| Rear travel | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 |

| SCOR 4060 Z GEOMETRY 140mm | | 1/0mm | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Travel configuration | | 140mm | | | | | | |
| Size | 4 | 33 | 4 | 57 | 483 | | 513 | |
| HT setup | Slack | Steep | Slack | Steep | Slack | Steep | Slack | Steep |
| A. Stack | 597 | 599 | 608 | 611 | 622 | 625 | 633 | 636 |
| B. Reach | 440 | 436 | 465 | 461 | 490 | 485 | 520 | 516 |
| C. Seat Tube lenght | 400 | 400 | 425 | 425 | 440 | 440 | 470 | 470 |
| D. Top Tube (virtual) | 560 | 561 | 589 | 590 | 620 | 621 | 654 | 655 |
| E. Chainstay | 435 | 435 | 435 | 435 | 435 | 435 | 435 | 435 |
| F. Wheelbase | 1198 | 1185 | 1223 | 1210 | 1248 | 1235 | 1278 | 1265 |
| G. BB drop | 29 | 27 | 29 | 27 | 29 | 27 | 29 | 27 |
| H. Estimated BB height | 338 | 340 | 338 | 340 | 338 | 340 | 338 | 340 |
| I. Head Tube | 87 | 87 | 99 | 99 | 115 | 115 | 127 | 127 |
| J. HT Angle | 64,5 | 65 ,5 | 64,5 | 65,5 | 64,5 | 65,5 | 64,5 | 65,5 |
| Fork Length | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 |
| Front Center | 765 | 752 | 790 | 777 | 815 | 802 | 845 | 832 |
| K. Fork Rake | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| ST Angle SCOR (750mm saddle height) | 77 | 76,5 | 77 | 76,5 | 77 | 76,5 | 77 | 76,5 |
| ST Angle actual | 69 ,4 | 69 | 69,4 | 69 | 69,4 | 69 | 69,4 | 69 |
| L. ST Angle effective (industry standard) | 78,5 | 78 | 78,5 | 78 | 78,5 | 78 | 78,5 | 78 |
| Rear travel | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 |

FOR THE NERDS

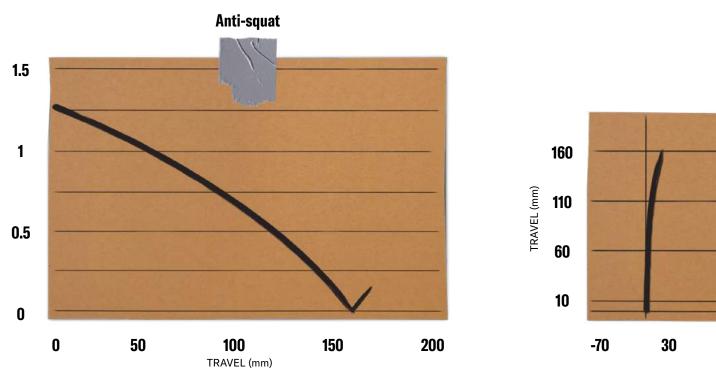


- High sensivity in early travel
- Good bottom out resistance



ANTI-RISE

Low anti rise for high suspension sensibility under breaking



- Good support in SAG area.

- Low antisquat deeper in the travel for limited chain effects on impacts

Lower Link flip chip, what does it do?

The LL flip chip varies the BB height by 6mm. In ST position the BB is 6mm lower than in LT position.

It is no problem to ride a Short Travel bike in High BB position (LT flip chip). However, riding a Long Travel bike in low BB position (LT) may result in a touching tire against the seat tube and damage the frame. Therefore, it is not recommended (see setting rear suspension guide)

Headset angle adjustement, what does it do?

The two position headset changes the head angle by 1.5°. Notches to the front = slack, notches facing backward = steep.

Want to ride your bike in mullet setup?

Swapping the rear weel to 650b makes two main changes, it lowers the BB and slackens the angles of ST and head tube.

130

230

AXLE PATH (mm)

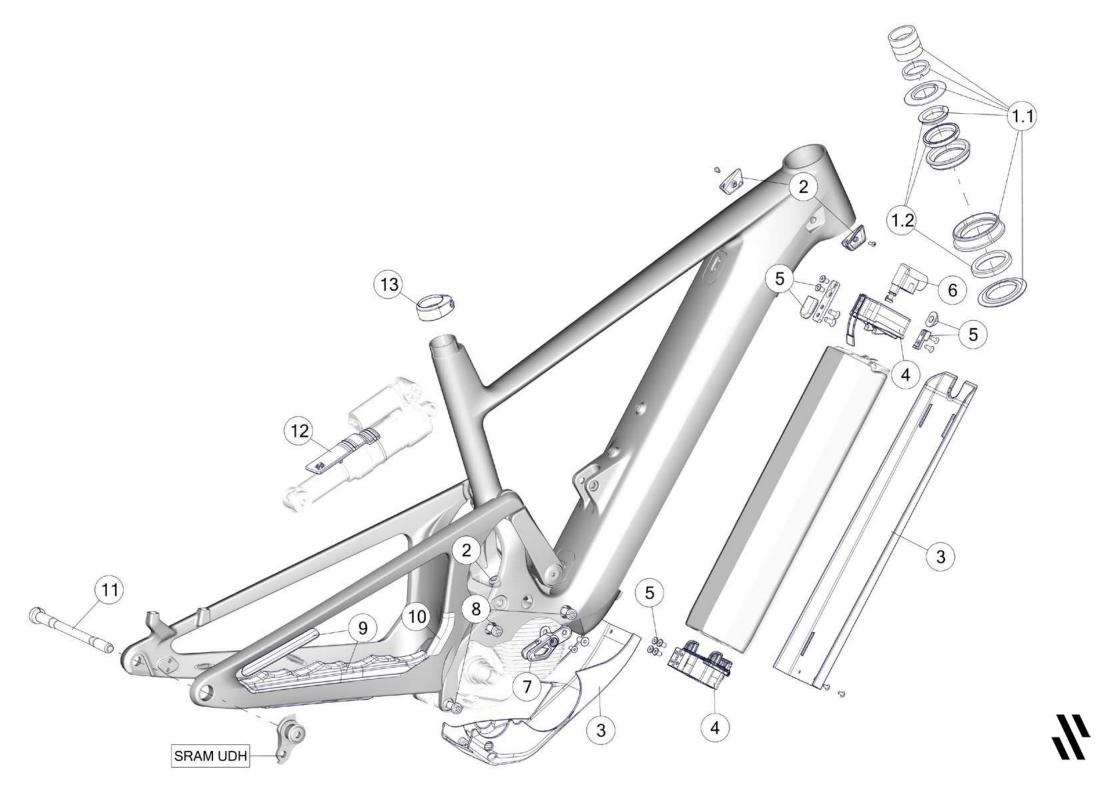
330

430

Axle path

For a ST bike, these effects can be compensated by flipping the BB chip to LT so that the BB rises.

On a LT bike, the BB chip is already in high position, therefore to higher the BB, the headangle can be turned to «steep» setting (notches backward), HT^o will be 64^o and the BB will be rised to help ground clearance.



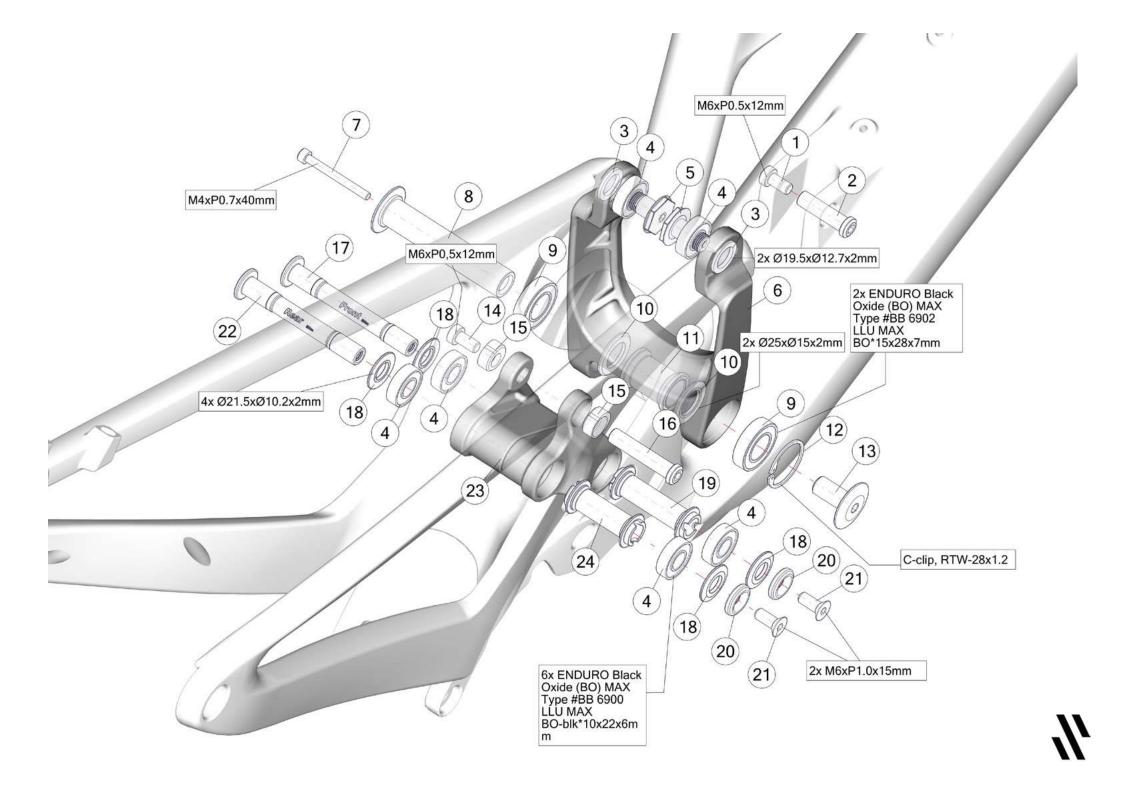
SPARE PARTS

| NUMBER ON DRAWING | PART NUMBER | DESCRIPTION |
|-------------------|-------------|--|
| 1 | 30004309 | SCOR Headset B-18-1 |
| 1.1 | 30006303 | SCOR HS-B-18-1 Hardware |
| 1.2 | 30006308 | SCOR HS-B-18-1 Bearings |
| 2 | 30001807 | SCOR Cable guide #29 |
| 3 | 30002027 | SCOR Battery/Drive Unit Cover 4060 Z |
| 3 | 30004679 | SCOR DU CVR 4060 Z EP801 |
| | 30004680 | SCOR Battery Cover 4060 Z |
| 4 + 5 | 30002091 | SCOR Battery Mount Kit 4060 Z |
| | 30006082 | SCOR BT Mount Kit 4060Z EP801 |
| 5 | 30002028 | SCOR E-Part Kit 4060 Z |
| 6 | 30004319 | SCOR Battery Mount Lock 4060 Z |
| 7 | 30002024 | SCOR Chainguide 4060 Z |
| 8 | 301244 | BMC SCOR Motor Bolts |
| 9 | 30003271 | SCOR 4060 Z Rear Triangle Protection Kit |
| 10 | 30004316 | SCOR 4060 Z Yoke protection |
| 10 | 30004678 | SCOR 4060 Z NEW Yoke protection |

SPARE PARTS

| NUMBER ON DRAWING | PART NUMBER | DESCRIPTION |
|-------------------|-------------|--|
| 11 | 30000706 | BMC SCOR Thru Axle TS AL, 4060, 4060 Z |
| 12 | 30002026 | SCOR Shock Fender 4060 Z |
| 13 | 30001739 | SCOR Seatpost Clamp #28 |
| - | 30004317 | Speed sensor magnet |
| - | 30002089 | SCOR Charger Cable Kit 4060 Z |
| - | 30002090 | SCOR Button Cable Kit 4060 Z |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

11



SPARE PARTS

| NUMBER ON DRAWING | PART NUMBER | DESCRIPTION |
|----------------------------|-------------|----------------------------------|
| 1,2,14-16 | 30002022 | SCOR Rear shock bolt set #6 |
| 3 - 24 | 30002023 | SCOR Linkage Kit 4060 Z |
| 3-5,6-13,17-24 | 30001744 | SCOR Bolt Kit # 27 |
| 6x4, 2x9 | 30006304 | SCOR Linkage Bearing Kit |
| 3, 5, 7, 8, 10, 11, 12, 13 | 30006306 | SCOR Upper Linkage Axle Kit |
| 17, 4x18, 2x20, 2x21, 22 | 30005708 | SCOR Lower Link Axle Kit Steel |
| 4, 18, 19, 23, 24 | 30006081 | SCOR 4060Z Lower Linkage Kit |
| 4, 6, 9, 11, 12 | 30006077 | SCOR 4060Z Pea Upper Linkage Kit |
| 4, 6, 9, 11, 12 | 30006078 | SCOR 4060Z Blu Upper Linkage Kit |
| 4, 6, 9, 11, 12 | 30006079 | SCOR 4060Z Bwn Upper Linkage Kit |
| 4, 6, 9, 11, 12 | 30006080 | SCOR 4060Z Blk Upper Linkage Kit |

WARRANTY TERMS AND CONDITIONS

Your SCOR 4060 Z frame has been manufactured with the highest levels of care and precision. According to the law, SCOR is responsible to deliver you a frame that is faultless of anything that will prevent normal operation. Therefore, your SCOR frame will benefit from the following warranty terms:

1. 5 year frame warranty covering

- Manufacturing defects
- Material defects
- Workmanship defects



Please note that frame paint & finish are covered under the same terms, but for a 2 year period of time.

$\underline{\mathbb{N}}$

- 2. Lifetime crash replacement covering
 - Damage gathered during a crash
 - Damage gathered after the 5 year warranty period
- **3.** 5 year crash replacement warranty to non-original buyer of the frame, covering
 - Damage gathered during a crash
 - Damage gathered during the 5 year warranty period

The conditions of warranty are the following :

- Terms 1 & 2 are solely applicable to the original buyer of the frame
- Term 3 is applicable to any non-original buyer of the frame
- A proof of purchase will be required for any claim falling into terms 1,2 and 3.
- Frame serial number will be required for any claim falling into terms 1,2 and 3.
- All warranty terms start at the date indicated on the proof of pur chase.
- Benefiting from term 3 requires the original buyer and the new owner to declare the sale on www.scor-mtb.com/registration
- other components of your frame are covered by the related manu facturer warranty.

For more information, please read the manuals located in the small parts box.

If you have any question, please contact us :

Contact@scor-mtb.com SCOR Mountain Bikes BMC Switzerland AG Sportstrasse 49 2540 Grenchen Switzerland