



**SPARK**

**SCOTT 2014  
BIKE OWNER'S  
MANUAL**

SCOTT SPORTS SA | 17 RTE DU CROCHET | 1762 GIVISIEZ | SWITZERLAND  
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The Spark should be adjusted exactly to the individual rider to achieve maximum safety and fun while riding. All adjustments should be done at a local SCOTT dealer or by strictly following this manual. In order to avoid any harm or in the case of technical problems or doubts please contact your authorized SCOTT dealer.

## CONTENT

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Spark Concept .....	P.004
Geometry/Technical Data Spark 27.5"/650B .....	P.005
Geometry/Technical Data Spark 29" .....	P.006
TC Shock Technology/TWINLOC Levers.....	P.007
Basic Set-Up of the TWINLOC Remote Control .....	P.014
Recommended Tools for the Shock Set-Up .....	P.018
Set-Up Spark with FOX Nude Shock .....	P.019
Spark Cable Routing.....	P.028
Adjustment of Seatpost-Height.....	P.034
Replaceable Drop Out Systems.....	P.034
Front Fork Set-Up/Change of Front Fork .....	P.037
Pivot Maintenance.....	P.037
Warranty .....	P.038

# SPARK CONCEPT

The new Spark is the result of 2 years of research and development for one of the lightest mountain bike frame set available on the market, hitting the scale at below 1800 grams (4 lbs) including the frame, FOX Nude shock and the unique TWINLOC remote control.

SCOTT's focus was not only on lightweight but also on a durable and stiff frame with an innovative suspension technology in combination with an optimized kinematics of the rear swingarm.

The combination of an optimized kinematics with an extraordinary suspension technology closes the gap between superlight hardtail bikes (e.g. SCOTT Scale) and the new generation of marathon/trail bikes (e.g. SCOTT Genius).

Spark was designed for riders looking for a dual suspended race and marathon bike offering a maximum rear wheel travel of 120mm (27.5")/100mm (29").

SCOTT does not see frame and rear shock as single components which are assembled together on a bike, but as a concept with all these components working together and offering an outrageous function by matching perfectly.

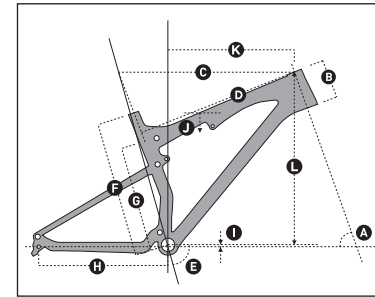
The Spark Concept is based on a multi-pivot technology.

The damping performance was improved in comparison to the already famous "old" Spark, and with reworking also the kinematics we were able to reach a better progression in the end of the stroke/travel of the swingarm.

The SCOTT system, named TC (Traction Control) will allow you to reduce by remote control the rear wheel travel from 120 (27.5")/100 (29")mm to 85 (27.5")/70(29")mm including a more progressive spring rate but still offering a supple break away.

No power will be lost and an optimum power transfer is guaranteed as the swingarm, in contrary to locked or automatic-locking systems, can follow the trail surface and will offer perfect traction and higher speed while standing on the pedals.

# GEOMETRY/TECHNICAL DATA SPARK 27.5"/650B



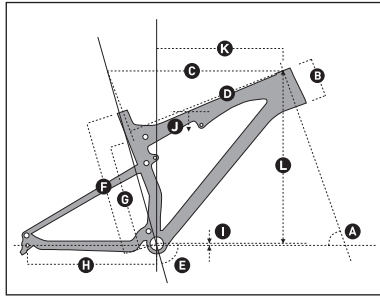
Travel	120/85/0mm
Suspension Ratio	2.40
Piston stroke	50mm
Shock length (Eye to Eye)	190mm
Hardware	22,2mm x 8mm
Mainframe	
Hardware	22.2mm x 8mm
Swingarm	
Seatpost diameter	31.6mm
Headset	semi integr. for tapered 1 1/8-1.5 (44/54.9mm inner diameter of frame) or with 1 1/8 straight (44.0mm)
Fork travel	120mm
Fork length	507mm
BB housing	BB PF 92 carbon / 73mm alloy
Front derailleur	Shimano E-Type / SRAM S3 direct mount
Bearings	2 x IGUS, 6 x 6802 (24x15x5)
Max. tire width	57mm/2.25"

## SPARK 27.5"/650B

	S HIGH BB SETTING	S LOW BB SETTING	M HIGH BB SETTING	M LOW BB SETTING	L HIGH BB SETTING	L LOW BB SETTING	XL HIGH BB SETTING	XL LOW BB SETTING
A HEADTUBE ANGLE	68.7°	68.0°	68.7°	68.0°	68.7°	68.0°	68.7°	68.0°
B HEADTUBE LENGTH	110mm 4.3in	110mm 4.3in	120mm 4.7in	120mm 4.7in	140mm 5.5in	140mm 5.5in	160mm 6.3in	160mm 6.3in
C TUBE LENGTH HORIZONTAL	553mm 21.8in	555mm 21.9in	589mm 23.2in	590mm 23.2in	618mm 24.3in	620mm 24.4in	648mm 25.5in	650mm 25.6in
D TUBE LENGTH ACTUAL	509mm 20.0in	509mm 20.0in	540mm 21.3in	540mm 21.3in	570mm 22.4in	570mm 22.4in	602mm 23.7in	602mm 23.7in
E SEAT TUBE ANGLE	74.2°	73.5°	74.2°	73.5°	74.2°	73.5°	74.2°	73.5°
F BB CENTER TO TOP OF SEAT TUBE	400mm 15.7in	400mm 15.7in	450mm 17.7in	450mm 17.7in	490mm 19.3in	490mm 19.3in	540mm 21.3in	540mm 21.3in
G BB CENTER TO TUBE CENTER	331mm 13.0in	331mm 13.0in	347mm 13.7in	347mm 13.7in	395mm 15.6in	395mm 15.6in	435mm 17.1in	435mm 17.1in
H CHAINSTAY LENGTH	420mm 16.5in	420mm 16.5in	420mm 16.5in	420mm 16.5in	420mm 16.5in	420mm 16.5in	420mm 16.5in	420mm 16.5in
I BB OFFSET	2mm 0.1in	-8mm -0.3in	2mm 0.1in	-8mm -0.3in	2mm 0.1in	-8mm -0.3in	2mm 0.1in	-8mm -0.3in
J STANDOVER HEIGHT	342mm 13.5in	332mm 13.1in	342mm 13.5in	332mm 13.1in	342mm 13.5in	332mm 13.1in	342mm 13.5in	332mm 13.1in
K WHEELBASE	1072mm 42.2in	1073mm 42.2in	1108mm 43.6in	1109mm 43.7in	1140mm 44.9in	1141mm 44.9in	1172mm 46.1in	1173mm 46.2in
L REACH	397mm 15.6in	391mm 15.4in	429mm 16.9in	423mm 16.7in	443mm 17.4in	443mm 17.4in	478mm 18.8in	473mm 18.6in
L STACK	552mm 21.7in	556mm 21.9in	561mm 22.1in	565mm 22.2in	579mm 22.8in	583mm 23.0in	598mm 23.5in	602mm 23.7in
STEM LENGTH	70mm	70mm	80mm	80mm	90mm	90mm	100mm	100mm



## GEOMETRY/TECHNICAL DATA SPARK 29"



Travel	100/70/0mm
Suspension Ratio	2.63
Piston stroke	38mm
Shock length (Eye to Eye)	165mm
Hardware Mainframe	22,2mm x 8mm
Hardware Swingarm	22.2mm x 8mm
Seatpost diameter	31.6mm
Headset	semi integr. for tapered 1 1/8-1.5 (44/54.9mm inner diameter of frame) or with 1 1/8 straight (44.0mm)
Fork travel	100mm
Fork length	506mm
BB housing	BB PF 92 carbon / 73mm alloy
Front derailleur	Shimano E-Type / SRAM S3 direct mount
Bearings	2 x IGUS, 6 x 6802 (24x15x5)
Max. tire width	57mm/2.25"

## SPARK 29"

	S HIGH BB SETTING	S LOW BB SETTING	M HIGH BB SETTING	M LOW BB SETTING	L HIGH BB SETTING	L LOW BB SETTING	XL HIGH BB SETTING	XL LOW BB SETTING
A HEAD TUBE ANGLE	70°	69.5°	70°	69.5°	70°	69.5°	70°	69.5°
B HEADTUBE LENGTH	105mm 4.1in	105mm 4.1in	105mm 4.1in	105mm 4.1in	115mm 4.5in	115mm 4.5in	125mm 4.9in	125mm 4.9in
C TOP TUBE LENGTH HORIZONTAL	568mm 22.4in	570mm 22.4in	598mm 23.5in	600mm 23.6in	628mm 24.7in	630mm 24.8in	649mm 25.6in	650mm 25.6in
D TOP TUBE LENGTH ACTUAL	518mm 20.4in	518mm 20.4in	539mm 21.2in	539mm 21.2in	566mm 22.3in	566mm 22.3in	583mm 23.1in	583mm 23.1in
E SEAT TUBE ANGLE	73°	72.5°	73°	72.5°	73°	72.5°	73°	72.5°
F BB CENTER TO TOP OF SEAT TUBE	400mm 15.7in	400mm 15.7in	440mm 17.3in	440mm 17.3in	481mm 18.9in	481mm 18.9in	541mm 21.3in	541mm 21.3in
G BB CENTER TO TOP TUBE CENTER	335mm 13.2in	335mm 13.2in	350mm 13.8in	350mm 13.8in	403mm 15.9in	403mm 15.9in	448mm 17.6in	448mm 17.6in
H CHAINSTAY LENGTH	448mm 17.6in	448mm 17.6in	448mm 17.6in	448mm 17.6in	448mm 17.6in	448mm 17.6in	448mm 17.6in	448mm 17.6in
I BB OFFSET	-41mm -1.6in	-48mm -1.9in	-41mm -1.6in	-48mm -1.9in	-41mm -1.6in	-48mm -1.9in	-41mm -1.6in	-48mm -1.9in
J STANDOVER HEIGHT	762mm 30.0in	758mm 29.8in	768mm 30.2in	764mm 30.1in	806mm 31.7in	802mm 31.6in	836mm 32.9in	833mm 32.8in
K REACH	386mm 15.2in	373mm 14.9in	416mm 16.4in	409mm 16.1in	442mm 17.4in	436mm 17.2in	456mm 18.0in	453mm 17.8in
L STACK	602mm 23.7in	606mm 23.9in	602mm 23.7in	606mm 23.9in	611mm 24.1in	615mm 24.2in	623mm 24.5in	625mm 24.6in
STEM LENGTH	70mm	70mm	80mm	80mm	90mm	90mm	100mm	100mm

## SHOCK TECHNOLOGY

The heart of the TC-System is the FOX Nude Shock, offering three functions which make this system possible.

The TWINLOC remote control lever is the evolution of the already outstanding TRACLOC system of SCOTT.

While TRACLOC allowed only the change on the SCOTT TC rear shocks between the SCOTT patented climb, traction and full-mode on the fly from the handlebar, the TWINLOC allows also the remote control of the front fork to shift between lock-out and open mode at the same time when you change the modes on the SCOTT rear shox.

In combination with SRAM/RockShox DNA 3 or FOX CTD forks it is also possible to have a traction mode on the fork.

The 3 modes of CTCD in combination with FOX Nude are:

- **CLIMB-OUT MODE:** Climb rear, climb front
- **TRACTION MODE:** Traction mode rear, (incl. geometry change and reduced travel), platform mode front
- **DESCENT MODE:** Full travel rear, full travel front

The 3 modes of CTD in combination with FOX CTD are:

- **CLIMB-OUT MODE:** Climb rear, climb front
- **RIDE MODE:** Platform(ride)mode rear, platform mode front
- **DESCENT MODE:** Full travel rear, full travel front

Therefore SCOTT offers 2 different TWINLOC levers with following fork/rear shock combinations:

- FOX Nude with different rolls for FOX CTD fork and RockShox DNA 3 fork (SCOTT Article number: 230097)
- FOX CTD with different rolls for FOX CTD fork and RockShox DNA 3 fork (SCOTT Article number: 230098)

Please note that the FOX CTD rear shock does not offer a traction mode, but a ride mode, featuring a platform. In contrary to FOX Nude the air chamber volume of the positive chamber remains the same throughout the different modes.



**IMPORTANT:**

You can only assemble the TWINLOC remote lever in “left side upward position” on the handlebar.

You have 3 positions of the TWINLOC remote lever.

1. CLIMB MODE:

The shock is nearly locked; climbing on asphalt roads is now possible without any power loss. Simultaneous a blow-off-system prevents the shock being damaged in case the rider did not open the system while crossing obstacles.

2. TRACTION MODE/RIDE MODE:

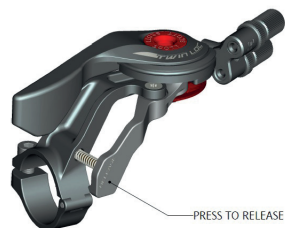
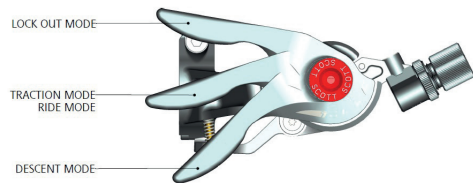
For Traction: by reducing the internal chamber volume inside the shock the travel of the shock will be reduced to around 80% (approx. 96/80mm) the characteristic of the air spring gets harder, the SAG is shorter and the geometry steeper. This results in climbing without “bobbing” and offers still optimum traction of the rear wheel.

For Ride: by adding a platform on the compression damping system the shock will not bounce while standing on the pedals.

3. DESCENT MODE:

Full travel of 120/100mm (27.5”/29”)

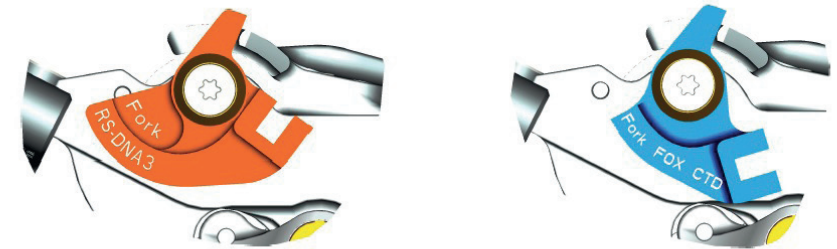
You will find the following positions on the remote lever:



For the assembly of the remote control of the front fork lock-out 2 different cable rolls which are changeable are existing.

The different roll for the pull of the fork remote cable can be changed within few minutes to adapt the lever to your fork model/brand.

You will see on the downside of the roll the indication of the fork brand or the fork model.



Scott offers 2 different TWINLOC levers with following fork/rear shock combinations:

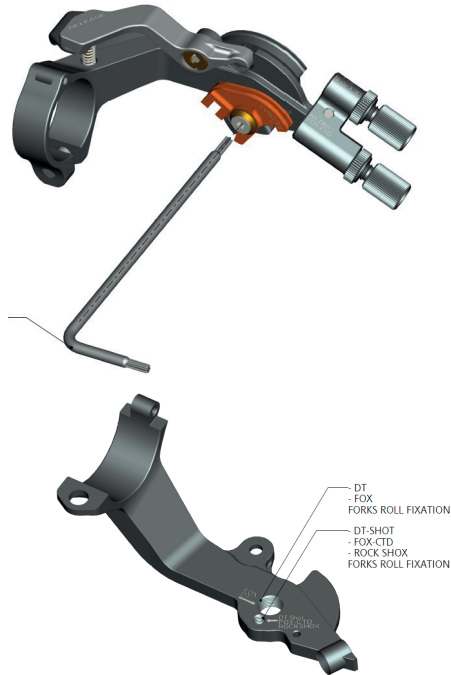
- FOX Nude with different rolls for FOX CTD fork and RockShox DNA 3 fork (Scott Article number: 230097)
- FOX CTD with different rolls for FOX CTD fork and RockShox DNA 3 fork (Scott Article number: 230098)

**Please kindly note that the cable roll of a RockShox DNA3 or FOX CTD fork-lever is not interchangeable with the regular rolls of 2 step forks. You need to use another lever!**

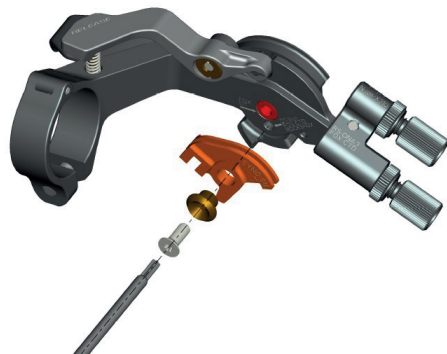
**For details on this please contact your authorized Scott dealer.**

To change the rolls to match another fork brand please follow the diagrams below:

## ROLL FORK UNMOUNTING



## ROLL FORK MOUNTING



## ASSEMBLY OF THE REMOTE CABLE

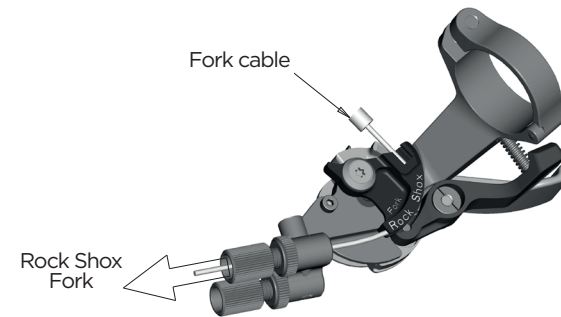
### SRAM/ROCKSHOX FORKS:

#### IMPORTANT:

Please make sure the lockout of SRAM/RockShox or FOX fork is activated after transport correctly. Therefore please compress fork 5-10 times before following the manual on remote cable installation and adjustment.

The lever should show on the downside of the cable roll the brand name of the fork you are going to use. Please do not try to use a RockShox roll with a FOX fork or vice versa.

To assemble the cable please bring the lever into the Descent Mode, push the cable into the lever-eyelet as shown on drawing below, push it through the pre-cut cable housing and fix it at the assembly unit on top of the right side of the fork crown.

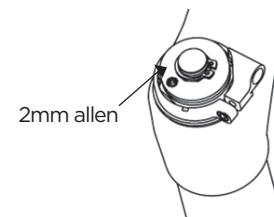


Fix the cable with the 2mm allen screw on the barrel adjuster on the fork crown with a tightening torque of 0.9Nm/8 lb/in, cut the cable and secure it with a cable end-cap. Please refer for this action also to the manual of SRAM/RockShox or FOX attached to the bike.

#### TIP:

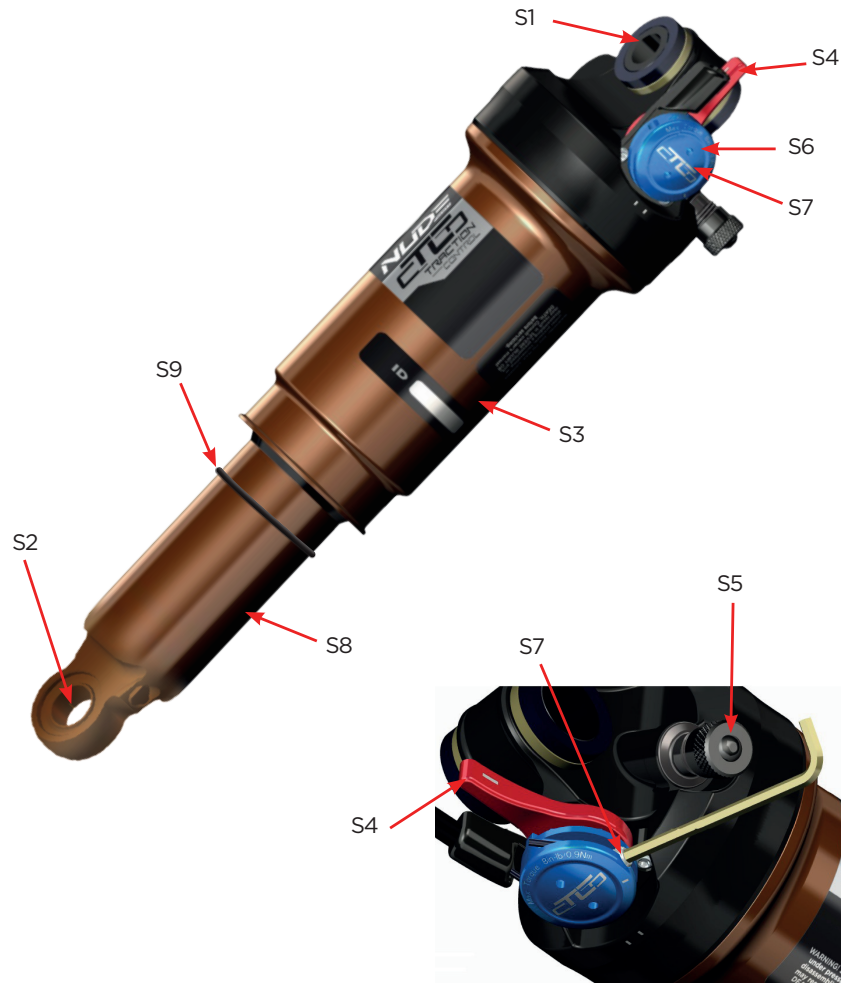
To check for accurate cable tension, please try to move the plastic end cap of the cable housing at the barrel adjuster on the remote lever. There should be "no-play" between cap and barrel adjuster.

In case of "play" please turn the barrel adjuster clockwise until "no-play".



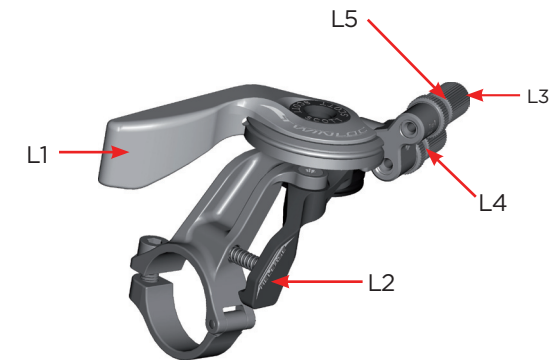
## FOX NUDE SHOCK AND TWINLOC REMOTE CONTROL LEVER

In the diagram of the shock and remote lever, shown below, you will see the parts indicated with numbers which will be used in the manual for the adjustment and set-up.



### Parts List

S1	Front eyelet/ Shock Bolt
S2	Rear eyelet/ Shock Bolt
S3	Shock Housing
S4	Rebound-Adjuster Knob
S5	Positive Chamber Valve
S6	Remote Control Wheel
S7	Cable Fixing Screw (hidden behind remote wheel)
S8	Shock Piston
S9	SAG Indicator (o-ring on piston)



L1	Remote Lever
L2	Release button
L3	Remote Control Cables
L4	Cable Tension Screw Fork Remote
L5	Cable Tension Screw Shock Remote

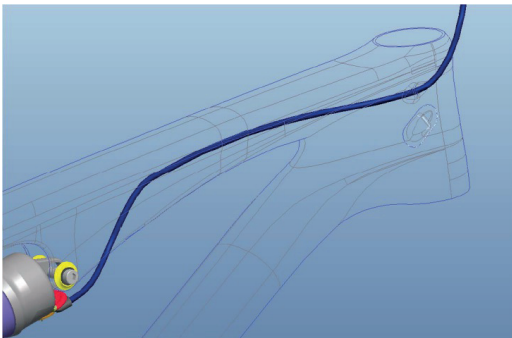


## BASIC SET-UP OF THE TWINLOC REMOTE CONTROL OF FOX NUDE SHOCK

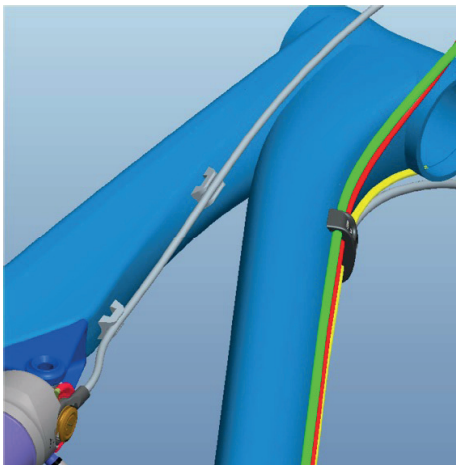
To ensure the FOX Nude shock functions perfectly, it is very important to strictly follow the below steps.

On Spark Carbon frames you will find an internal cable routing.

Push the inner cable first through the remote lever in the upper cable routing of the lever and then through the cable housing inside the toptube as shown below.



On Spark alloy frames a regular outside cable routing, the outer cable housing is fixed on cable mount ports with cable zippers.



1. Loosen the cable fixing screw (S7) by turning it counter clockwise with a 2mm allen key.



2. Insert a new cable via the lever hole and cable housing and push it into the shock around the remote wheel (S6) as shown



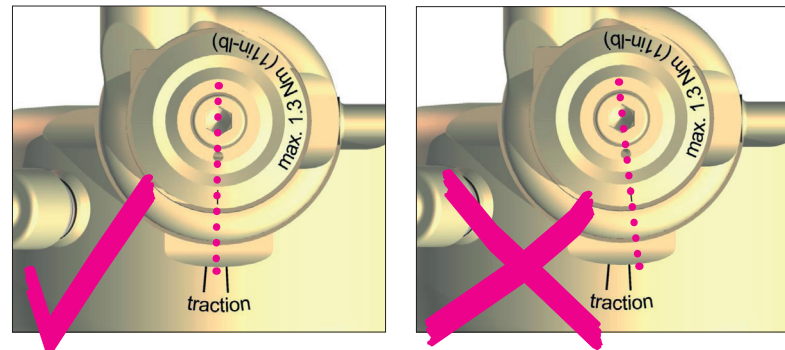
3. Tighten the cable and fix the cable fixing screw (S7) by turning it clockwise with a 2mm allen key and a max. tightening torque of 1.6Nm.



5. Cut the cable approx. 20mm away from the remote wheel. Fix it by squeezing it with pliers.



4. Check that the handlebar lever is in the traction position. Refer to the diagram below.



6. Push a cable end-cap on the cable until it touches the end of the cable. Fix it by squeezing it with pliers.



## BASIC SET-UP OF THE TWINLOC REMOTE CONTROL OF FOX FLOAT CTD SHOCK:

The assembly of the remote cable and the setup of the FOX Float CTD rear shock is very similar to the above mentioned assembly and setup of the FOX Nude.

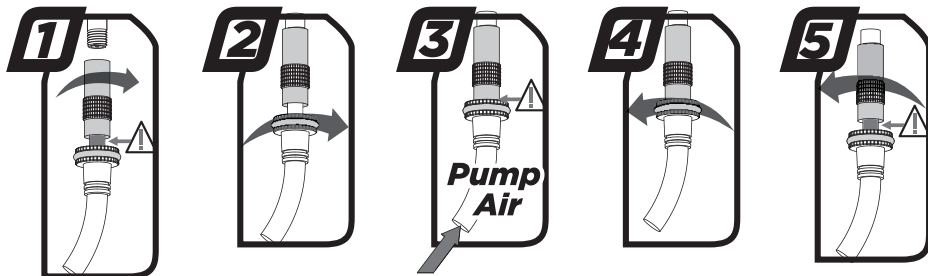
Please follow the details shown in the FOX manuals attached to this bike.

## RECOMMENDED TOOLS FOR THE SHOCK SET-UP

When setting up the shock we recommend using a shock pump with a scale up to 20 bars/300 psi with a special air valve connector. This prevents air from escaping when removing the pump from the shock valve to achieve a more accurate air pressure.

**Please note that air will flow into the hose and indicator when counter checking the air pressure, so you have to set up the recommended pressure again after this action.**

**Make sure to balance at least this air loss when you make a check of the air pressure of the shock. Please also note that the indicators of shock pumps have a tolerance of max. 10%.**



## SET-UP SPARK WITH FOX NUDE SHOCK

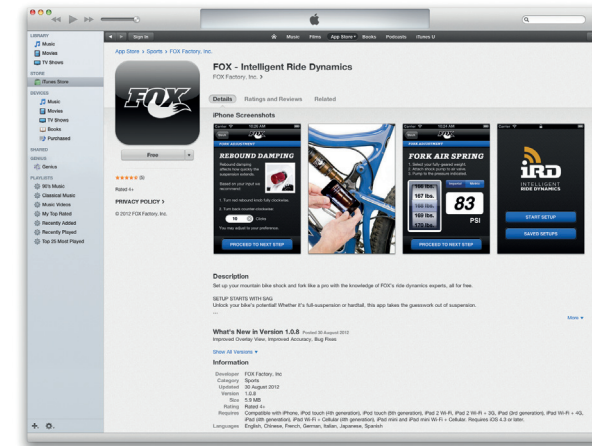
The Set-Up of the FOX Nude Shock can be easy done within a few minutes.

### IMPORTANT:

Important: For all adjustments of the air spring the remote lever has to be in position "Descent mode"

To adjust the air pressure of the air chamber of the FOX Nude Shock please refer to the following instruction:

1. remove the valve cap of the valve (S5) located on the shock housing (S3).
2. mount the shock pump with its adaptor on the valve
3. please take into account that it takes some air pressure from inside the shock to drive the indicator on the pump. Make sure to balance at least this air loss when you make a check of the air pressure of the shock. Pls also note that the indicators of shock pumps have a tolerance of max. 10%
4. pump the recommended pressure into the shock. Please use the FOX iRD App (available at itunes App store with following link: <https://itunes.apple.com/us/app/fox-intelligent-ride-dynamics/id549035102?mt=8&ign-mpt=uo%3D4>)
5. After downloading the app on your mobile gear please follow the steps shown in the app and inflate the shock according to the air pressure indicated.



6. when you reached the needed pressure remove the pump and put the valve cap on the valve



## SAG

The SAG should be 10mm on the shock piston.

To check the adjustment, please follow the below instructions:

1. Sit on the bike, put your feet on the pedals
2. Put your feet back on the ground and stand over the bike without bouncing the bike during this action
3. Check if the o-ring (S9) on the shock piston (S8) has a distance of 10mm to the main dust wiper/seal between shock housing and piston.
  - if the distance between the o-ring and the main dust wiper/seal is 10mm, the air pressure is correct for your weight
  - if the distance between the o-ring and the main dust wiper/seal is less than 10mm, the air pressure of the air chamber is too high and should be carefully reduced by using the bleed knob of the shock pump until the distance is 10mm.
  - if the distance between the main dust wiper/seal is greater than 10mm, the air pressure of the air chamber is too low and should be increased by using the shock pump until the distance is 10mm.

## SET-UP OF REBOUND FOX NUDE OR FOX CTD SHOCK

“Rebound” describes the speed the shock comes back to its original length after absorbing an obstacle.

By using the rebound adjuster knob (S4) you can adjust the rebound step by step.



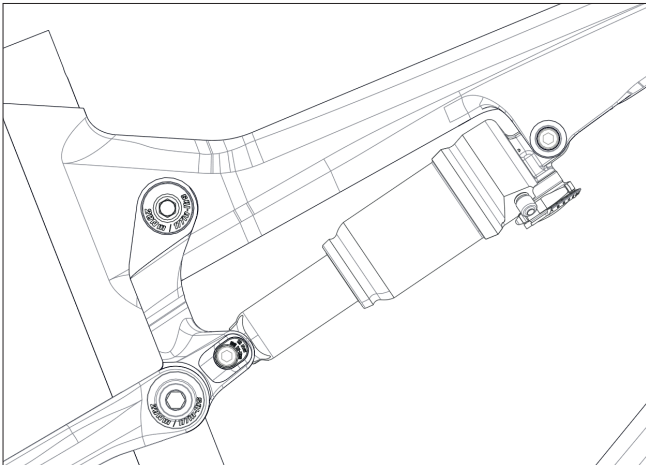
Please refer to the following instructions:

Ride your bike off a pavement (remain in the saddle) and check how many times it bounces.

- If it bounces 1-2 times, the set up is good.
- If it bounces more than 3 times the rebound is too fast.  
Turn the knob 1-2 “clicks” clockwise
- If it does not bounce the rebound is too slow.  
Turn the knob 1-2 “clicks” counter clockwise.

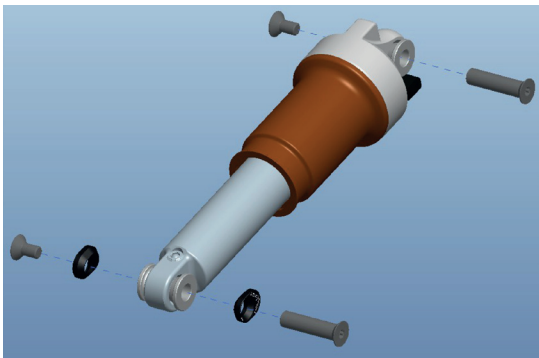
**IMPORTANT:**

Note that you have to mount the FOX Nude Shock always as shown underneath.  
Mounting the rear shock in a different position can cause severe damages to the frame, the linkage levers and the rear shock.  
Same for the FOX Float CTD and X-Fusion E1 shock on some of the Spark models.



**IMPORTANT:**

After dismantling the rear shock, both fixing bolts should be tightened with a tightening torque of 10Nm/88in-lbs.  
If this is not done correctly the rear shock may become damaged.  
Please only use SCOTT shock bolts and follow the assembly instructions shown below:  
**Please only use the matching adjustment shims as their shape is designed specifically to fit with the countersunk bolts.**



## SET-UP OF OTHER SHOCK MODELS

**SCOTT strongly recommends using only the FOX Nude (FOX Float CTD /X-Fusion E1) Shock with the Spark bike**, as we designed both parts to be perfectly matched with a linear suspension rate.

Also on those shock models the SAG should be 10mm.

For all basic steps on inflating the shock and adjusting the rebound please refer to the description of the FOX Nude set-up.

## OTHER SHOCK MODELS ON SPARK

If you use a different rear shock model other than the original one on the bike, please ensure the shock will not hit the frame at any position as this will damage the frame.

Please follow the instructions below:

Ensure that the rear shock or its accessory parts do not touch the frame when mounting or suspending.

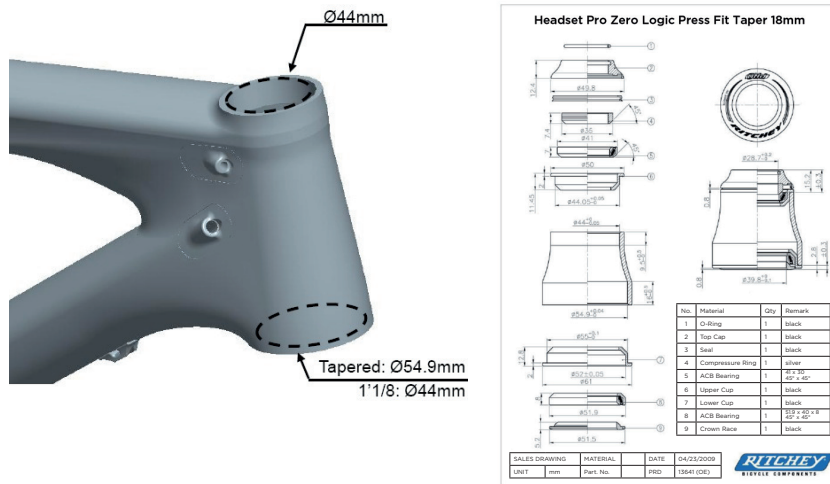
To check the shock, release the air/remove the coil, install the shock and compress the shock completely.

If the shock touches the frame while doing the above actions, do not use this shock as it will cause damage to the frame, swingarm or shock.

## HEADSET OPTIONS

Spark features different versions of headset systems.

1. A tapered headset and fork steerer system to match with semi-integrated headsets of the "50-61"mm range with ID of Headtube of 44.0mm on top and 54.9mm on the lower end.



Ritchey WCS Carbon Zero Tapered PF 50-61mm 18mm UD PRD 13636

Ritchey PRO Tapered PF 50-61mm 12.9mm PRD 13640

It is also possible to use forks with a standard 1 1/8" steerer tube when using a reducer headset, for example:

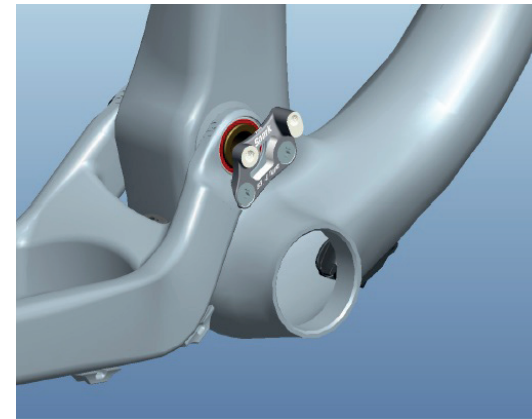
Ritchey WCS Carbon Zero Tapered PF 50-61mm 18mm UD for 1 1/8 fork PRD 14860

2. A straight 1 1/8" headset and fork steerer system to match with semi-integrated headsets with an ID on the headtube of 44.0mm on top and lower end. This is a standard part in the market and should be available from several parts manufacturers.

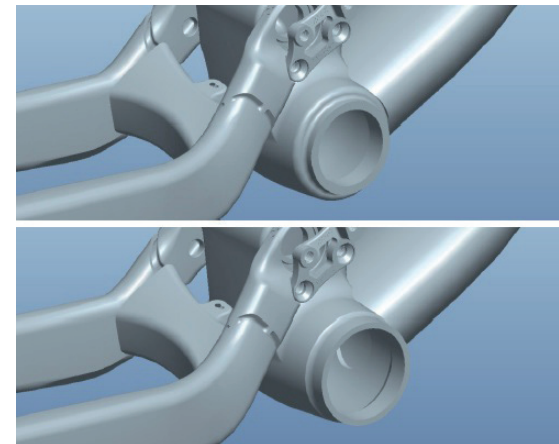
## BOTTOM BRACKET (BB) ON SPARK

All carbon front frames of Spark have a BB shell for BB92PF standard.

This matches to several bearing and crankset models of Shimano, SRAM, FSA and others.



The alloy front frames of Spark have a BB shell for BB92PF or 73mm BSA standard, depending on the model.

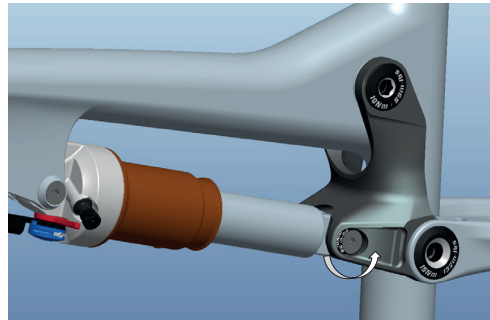
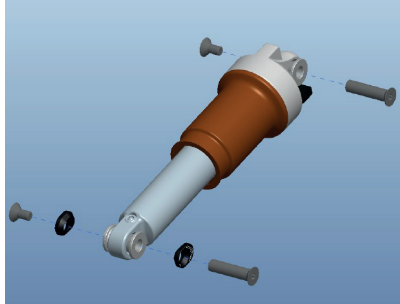




## ADJUSTABLE BB HEIGHT

On Spark bikes equipped with the FOX Nude 3/FOX Float CTD shock you can adjust the BB height above ground in 2 positions by flipping a geometry chip located on the linkage bar shock mount.

**Please note the max. tightening torque of 10Nm (88 in/lbs)**



1. low BB for lower center of gravity over ground, slacker head angle
2. high BB for bigger clearance between pedals/crankset and obstacles on the ground, steeper head angle

	Spark 700	Spark 900
<b>LOW POSITION</b>		
<b>HEAD ANGLE</b>	68.3°	69.5°
<b>BB HEIGHT</b>	330mm	317mm
<b>HIGH POSITION</b>		
<b>HEAD ANGLE</b>	68.8°	70°
<b>BB HEIGHT</b>	336mm	323mm

### IMPORTANT:

It is not possible to use this geometry chip with other shock models than the FOX Nude /FOX Float CTD. The shock might collide with parts of the frame or linkage bar.

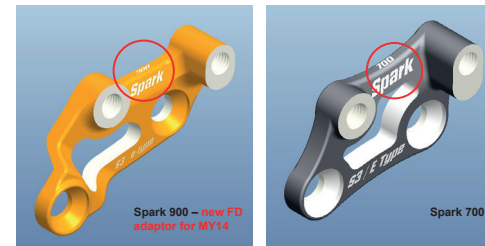
Models originally equipped with another shock than the FOX Nude /FOX Float CTD will have a chip with a centered shock bolt hole.

## FRONT DERAILLEUR (FD) MOUNTING DETAILS

On all Spark frames you will find a Shimano E-type front derailleur but fixed directly on the swingarm without the plate that is fixed normally between the bottom bracket bearing cup and the bottom bracket housing of the front triangle or a SRAM Direct Mount Type S3 FD.

Please note that you always need to use the adapter plate attached to the bike or frame set between chainstay and front derailleur.

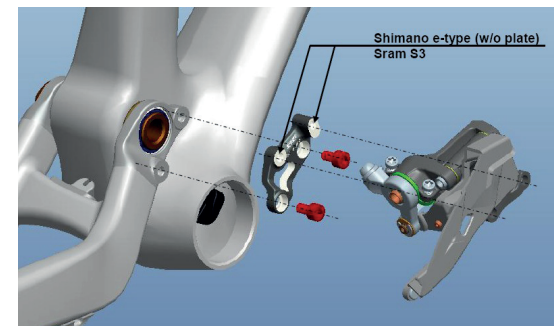
The FD-adapter plates of Spark 700 and 900 series are NOT interchangeable



This adapter can be ordered at the SCOTT distribution with parts number:

235276 FD mount plate Set Spark 700 2014

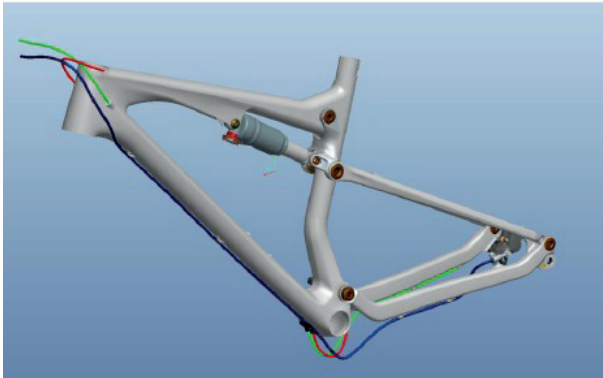
235278 FD mount plate Set Spark 900 2014



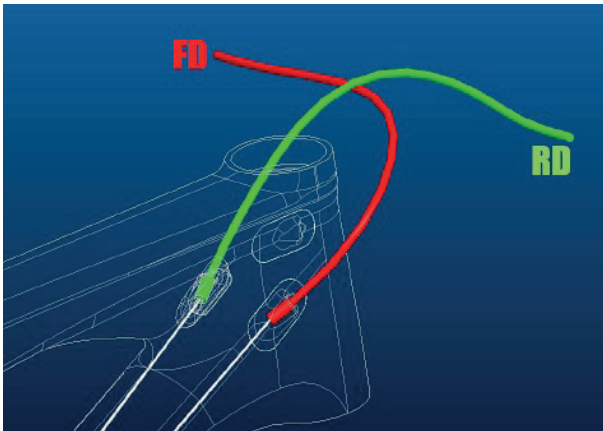
## SPARK CABLE ROUTING

The direct and straight cable system on all our full suspension models offers perfect shifting performance combined with minimal weight and high resistance against water and dirt.

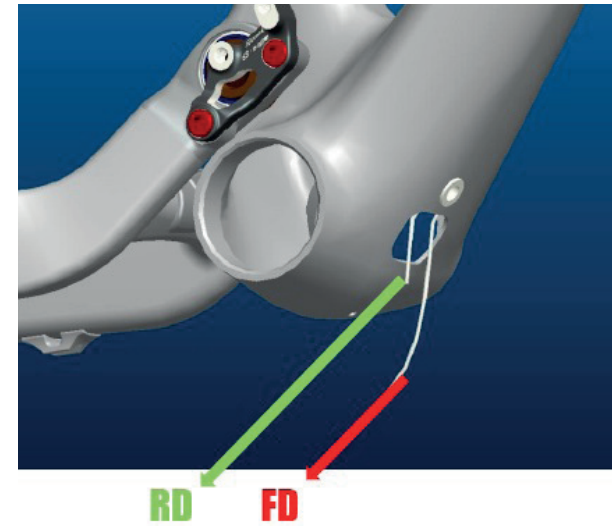
### CARBON FRONT FRAMES:



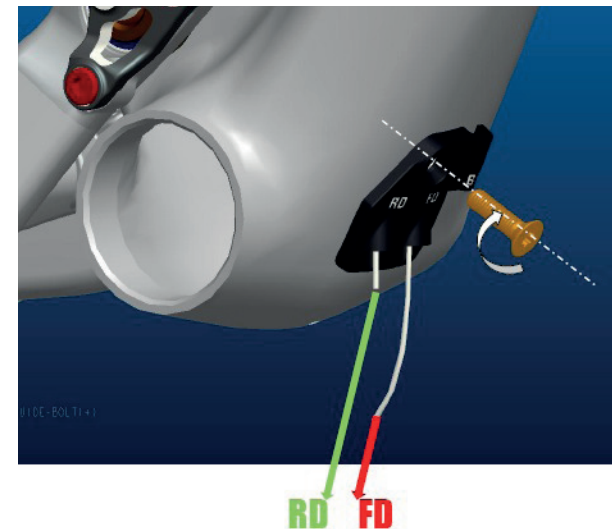
The carbon frames of Spark have an internal shifting cable routing with cable stops on the front end of the downtube as shown in the drawing below.



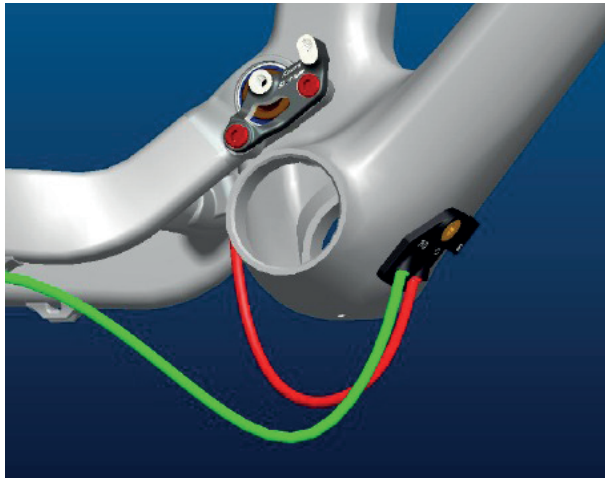
Please note that the inner cables need to cross each other 1 time on the inside of the downtube before you pull them out through the cable slot on the lower downside of the downtube.



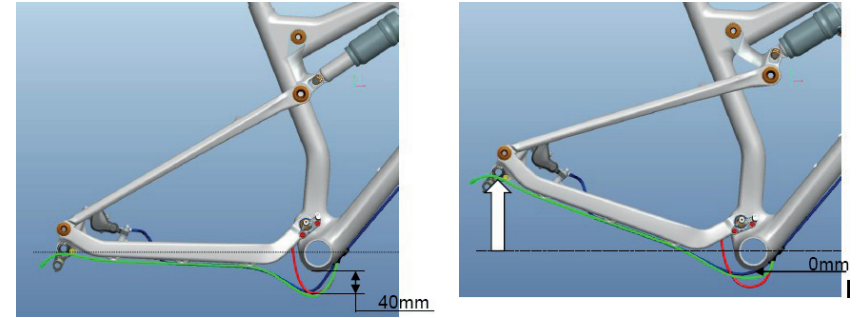
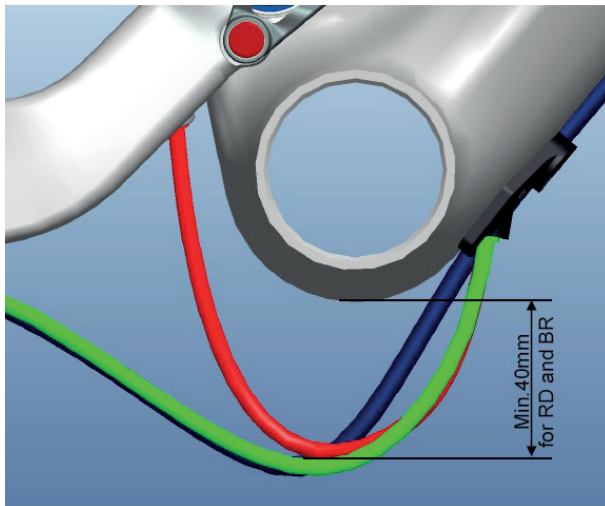
Push the cables through the cable guide as shown below and fix the cable guide on the downtube with a 3mm allen key and a tightening torque of 4Nm/35in/lbf



Push the outer cable housings on the cables into the cable guide but make sure to respect the needed length as shown in the next drawing!

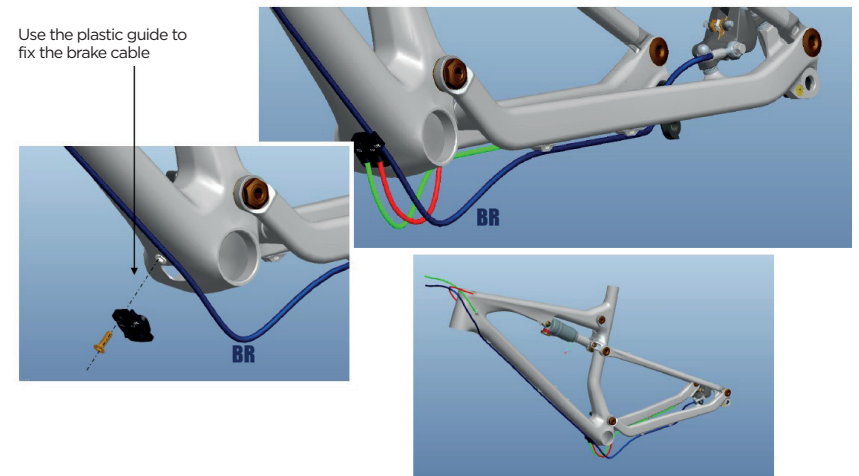


Please make sure to respect the 40mm distance between the cables and the BB (bottom bracket) housing to avoid “ghost-shifting” and/or damages on the shift cables and brake hoses.



For the rear brake please assemble the cable as shown in the following diagrams:

**Please remember to maintain a minimum distance of 40mm between the brake hoses and the BB housing as mentioned previously!**



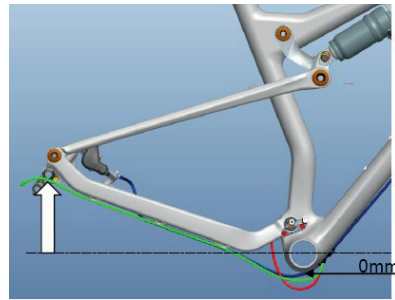
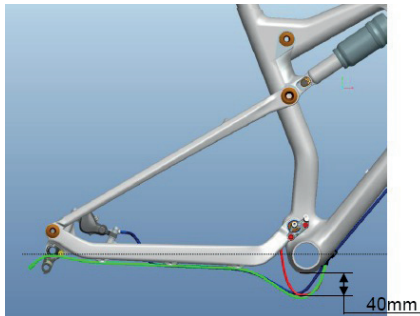
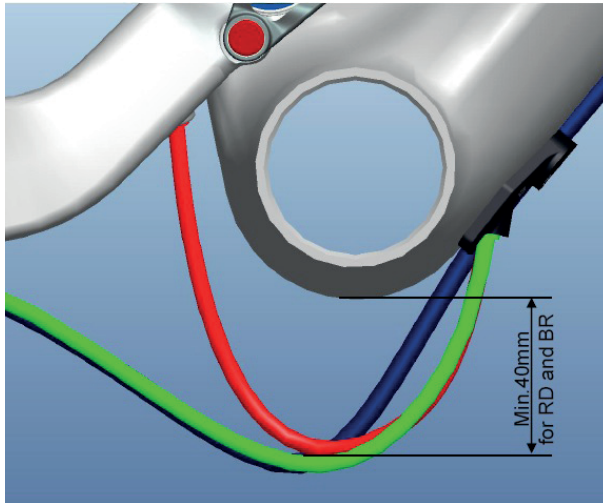
The cable guide can be ordered via SCOTT distribution with parts number:

223305 Cable guide BB Spark 12 Genius 13 carb

## ALLOY FRONT FRAMES:

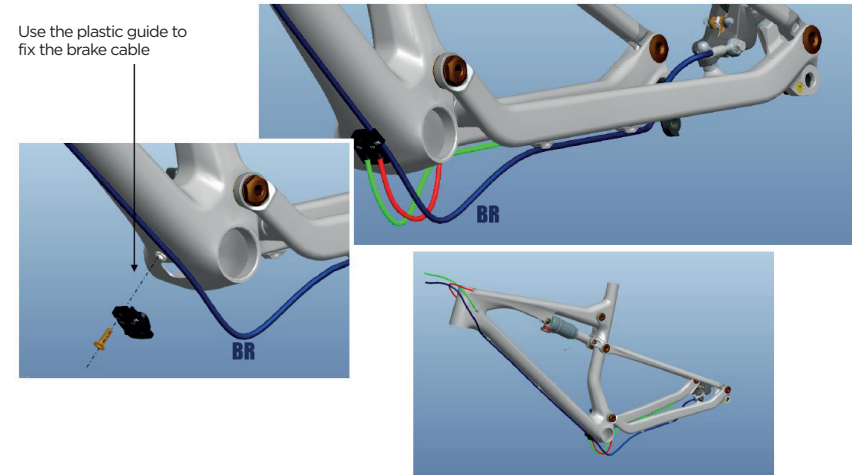
Please fix the cable housings and the brake hose on the frame on the cable mounts with cable zippers by following the routing information as shown below:

**Please make sure to respect the 40mm distance between the cables and the BB (bottom bracket) housing to avoid “ghost-shifting” and/or damage to the shift cables and brake hoses.**



For the rear brake please assemble the cable as shown in the following diagrams:

**Please remember to maintain a minimum distance of 40mm between the brake hoses and the BB housing as mentioned previously!**



The cable guide can be ordered via SCOTT distribution with parts number:

223305 BB Cableguide Spark 2012

## ADJUSTMENT OF SEATPOST-HEIGHT

### IMPORTANT:

The seatpost has to be inserted at a minimum of 100mm into the seattube.

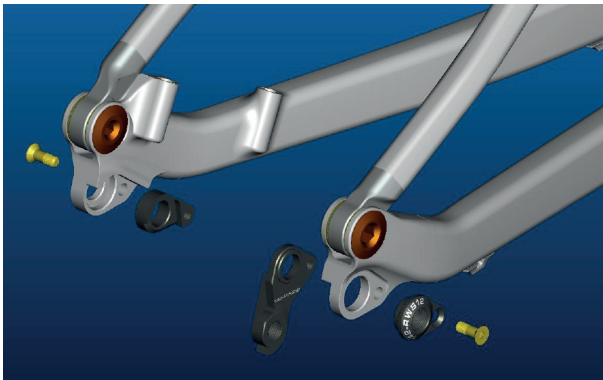
Never use a seatpost diameter other than 31.6mm or try to use a shim/reducer between the seatpost and frame.

## REPLACEABLE DROPOUT

On Spark bikes of model year 2012 you can replace the rear derailleur hanger.

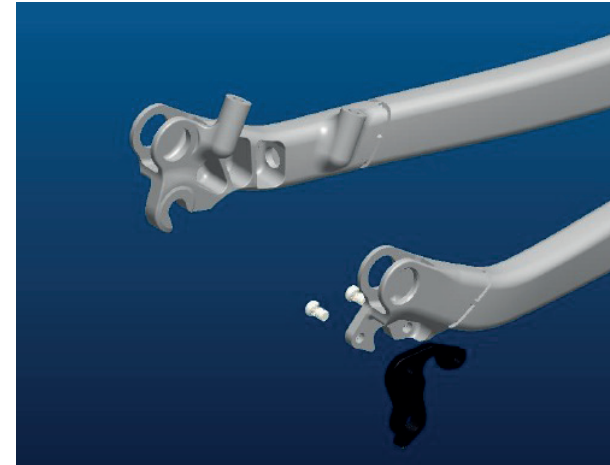
Depending on the different models you'll find the following options:

### 1. 142mm axle with RWS 142/12



The complete set is available via SCOTT distribution with parts number 219574, the right side replaceable RD hanger with 219577.

### 2. Regular 135 mm rear axle with standard QR



The replaceable hanger is available via SCOTT distribution with parts number 206473.

If you use other RWS standards we can offer after-market parts for specific wheelsets with the following parts via SCOTT distribution:

.....  
RWS 135/12 parts set: 219574, right side replaceable RD hanger available with 219576

.....  
RWS 135/5 parts set: 219572, right side replaceable RD hanger available with 219575  
.....



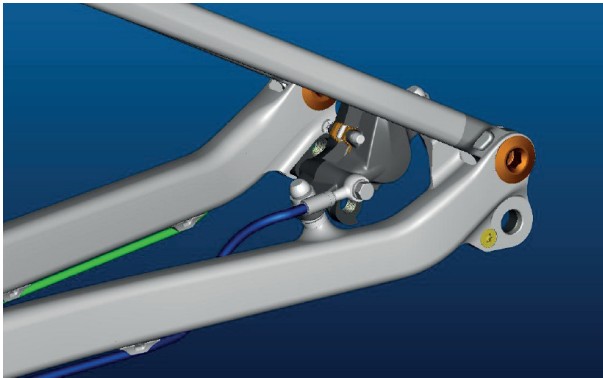
## REAR DISC BRAKE MOUNT

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Spark can be used with 3 different disc rotor sizes on the rear brake.

The rear disc brake on Spark is Postmount (PM) Standard on the left seatstay and it is possible to use disc rotors with 160, 180 and 185mm diameter.

Please note that for the assembly of 180 and 185mm rotors you may need adapters/washers between the PM port on the frame and the brake calliper.



## FRONT FORK SET-UP/CHANGE OF FRONT FORK:

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For the front fork set-up please use the fork specific manual attached to the bike.

We recommend using front forks with a travel of 120mm (27.5") and 100mm (29"), as this will not influence the geometry or alter the handling of the bike.

For details on the technical length of the recommended forks please refer to the Tech Info Chart mentioned previously.

## PIVOT MAINTENANCE

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The pivot and bearings on SCOTT Spark are extremely easy to maintain.

An external treatment with a grease spray after every bike wash is all you have to do. We do not recommend heavy grease sprays since these will leave a film on the parts which is difficult to remove. We recommend the same for the chain also.

If you have to change the bearings you can order them included in a service kit at your local SCOTT dealer or buy them with international parts number as shown above in the specs list in a hardware store.

In case of a change of the bearings or of the rear swingarm you should contact your local SCOTT dealer as you need special tools for disassembly and assembly.

## WARRANTY

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Model .....

Year .....

Size .....

Frame Nr. ....

Shock Nr. ....

Date of purchase .....

## WARRANTY

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SCOTT bikes are made using the most innovative production and quality methods. They are equipped with best components of well known parts suppliers.

Doing so SCOTT warrants its frames and swingarms for five years (subject to compliance with maintenance ranges, see below) and SCOTT forks (provided it is a fork of SCOTT) for two years for defects in material and/or workmanship in case of purchase of completely assembled bikes.

This warranty of 5 years for the frames shall only be granted in case once a year a maintenance service has been effected according to maintenance requirements as set forth in this manual by an authorised SCOTT dealer.

The authorised SCOTT dealer shall confirm the effected annual maintenance service by stamp and signature.

In case such an annual maintenance service has not been effected the warranty of 5 years for the frame shall be reduced to 3 years.

Costs for maintenance and service have to be born by the owner of the SCOTT bike.

On Gambler, Voltage Fr and Volt-X the warranty period is limited to 2 years.

The warranty period starts at the day of purchase. This warranty is limited to the first buyer, what means the first person who uses the bike and only with the use it was made for. Furthermore, this warranty is limited to purchases via authorized SCOTT-dealers

The warranty is solely granted in case of purchase of a completely assembled bike to the explicit exclusion of purchases of not completely assembled bikes.

In case of a warranty claim the decision to repair or to replace the defective part is up to SCOTT. Non defective parts will only be replaced at the guarantee's own expense.

Fair wear and tear is not covered by the warranty.

A complete list of all parts of wear and tear can be found in the next chapter of this manual.

In addition, you will find at the end of this manual a protocol for the handing over of the bike which will remain in copy at the SCOTT dealer after acceptance and signature of the consumer.

It is obligatory to show this protocol of handing over together with the defective part in case of a warranty claim given that it provides evidence of purchase.

Otherwise no warranty is granted.

In principle, this warranty is granted worldwide. Claims must be made through an authorized dealer, for information regarding the nearest dealer, write or call this company or the national SCOTT distributor.

Normal wear, accident, neglect, abuse, improper assembly, improper maintenance by other than an authorized dealer or use of parts or devices not consistent with the use originally intended for the bicycle as sold are not covered by this warranty.

Hereby SCOTT grants a voluntarily manufacturer's warranty. Additional entitlements according to national warrant of merchantability are reserved.

For warranty info on the Fox Nude shock please refer to the attached manual of Fox Nude.