

SCOTT SPARK USER MANUAL

INNOVATION TECHNOLOGY DESIGN

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The SCOTT Spark should be adjusted exactly to the individual rider to achieve maximum saftey and fun while riding.

SCOTT recommends that all adjustments be carried out by your local authorized SCOTT dealer. Some basic maintenance can be done if strictly following the manuals supplied with this bike.

Please contact your authorized SCOTT dealer for advice in order to avoid any harm and assist you with any questions or technical problems.

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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.

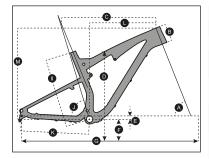
The Spark Concept is based on a multi-pivot technology.

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 650B/27.5"

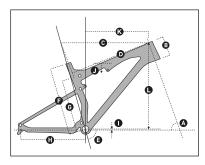


Travel	120/85/0mm
Suspension Ratio	2.40
Piston stroke	50mm
Shock length (Eye to Eye)	190mm
Hardware Mainframe	22,2mm x 8mm
Hardware Swingarm	22.2mm x 8mm
Seatpost diameter	31.6mm
Headset	semi integr. for tapered 11/8-1.5 (44/54.9mm inner diameter of frame) or with 11/8 straight (44.0mm)
Fork travel	120mm
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"

		S		S		М		М		L		L		XL		XL	
		LOW BB SI	ETTING	HIGH BB SI	ETTING	LOW BB SI	ETTING	HIGH BB S	ETTING	LOW BB S	ETTING	HIGH BB S	ETTING	LOW BB SI	ETTING	HIGH BB S	ETTING
А	HEAD TUBE ANGLE	68.3	٥	68.8	٥	68.3	۰	68.8	۰	68.3	0	68.8	٥	68.3	0	68.8	•
В	HEAD TUBE LENGTH	105.0 mm	4.1 in	105.0 mm	4.1 in	110.0 mm	4.3 in	110.0 mm	4.3 in	120.0 mm	4.7 in	120.0 mm	4.7 in	135.0 mm	5.3 in	135.0 mm	5.3 in
С	TOP TUBE HORIZONTAL	570.0 mm	22.4 in	568.5 mm	22.4 in	600.0 mm	23.6 in	598.5 mm	23.6 in	625.0 mm	24.6 in	623.5 mm	24.5 in	650.0 mm	25.6 in	648.6 mm	25.5 in
D	STANDOVER HEIGHT	761.7 mm	30.0 in	764.4 mm	30.1 in	763.3 mm	30.1 in	766.2 mm	30.2 in	794.6 mm	31.3 in	798.0 mm	31.4 in	823.9 mm	32.4 in	827.6 mm	32.6 in
Ε	BB OFFSET	-21.5 mm	-0.8 in	-15.5 mm	-0.6 in	-21.5 mm	-0.8 in	-15.5 mm	-0.6 in	-21.5 mm	-0.8 in	-15.5 mm	-0.6 in	-21.5 mm	-0.8 in	-15.5 mm	-0.6 in
F	BB HEIGHT	330.0 mm	13.0 in	336.0 mm	13.2 in	330.0 mm	13.0 in	336.0 mm	13.2 in	330.0 mm	13.0 in	336.0 mm	13.2 in	330.0 mm	13.0 in	336.0 mm	13.2 in
G	WHEEL BASE	1,094.0 mm	43.1 in	1,094.0 mm	43.1 in	1,125.0 mm	44.3 in	1,125.0 mm	44.3 in	1,150.0 mm	45.3 in	1,150.0 mm	45.3 in	1,177.0 mm	46.3 in	1,177.0 mm	46.3 in
ı	BB CENTER TO TOP OF SEATTUBE	412.0 mm	16.2 in	412.0 mm	16.2 in	440.0 mm	17.3 in	440.0 mm	17.3 in	490.0 mm	19.3 in	490.0 mm	19.3 in	530.0 mm	20.9 in	530.0 mm	20.9 in
J	SEAT ANGLE	73.0	0	73.0	0	73.0	0	73.0	0	73.0	٥	73.0	٥	73.0	0	73.0	0
K	CHAINSTAY	433.0 mm	17.0 in														
L	REACH	394.0 mm	15.5 in	398.9 mm	15.7 in	422.6 mm	16.6 in	427.4 mm	16.8 in	444.7 mm	17.5 in	449.5 mm	17.7 in	465.5 mm	18.3 in	469.9 mm	18.5 in
М	STACK	575.7 mm	22.7 in	572.3 mm	22.5 in	580.4 mm	22.9 in	576.8 mm	22.7 in	589.7 mm	23.2 in	586.1 mm	23.1 in	603.6 mm	23.8 in	600.2 mm	23.6 in
Ν	STEM LENGTH	70.0 mm	2.8 in	70.0 mm	2.8 in	80.0 mm	3.1 in	80.0 mm	3.1 in	90.0 mm	3.5 in	90.0 mm	3.5 in	100.0 mm	3.9 in	100.0 mm	3.9 in

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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 11/8-1.5 (44/54.9mm inner diameter of frame) or with 11/8 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"

		s		s		М		М		L		L		XL		XL	
		HIGH BB S	ETTING	LOW BB S	ETTING	HIGH BB S	ETTING	LOW BB S	ETTING	HIGH BB S	ETTING	LOW BB S	ETTING	HIGH BB S	ETTING	LOW BB S	ETTING
А	HEAD TUBE ANGLE	70.	1°	69.	5°	70.	1°	69.5	5°	70.	10	69.5	5°	70.1	0	69.5	5°
В	HEADTUBE LENGTH	105 mm	4.1 in	105 mm	4.1 in	105 mm	4.1 in	105 mm	4.1 in	115 mm	4.5 in	115 mm	4.5 in	125 mm	4.9 in	125 mm	4.9 in
С	TOPTUBE LENGTH HORIZONTAL	568 mm	22.4 in	570 mm	22.4 in	598 mm	23.5 in	600 mm	23.6 in	628 mm	24.7 in	630 mm	24.8 in	649 mm	25.6 in	650 mm	25.6 in
D	TOPTUBE LENGTH ACTUAL	518 mm	20.4 in	518 mm	20.4 in	539 mm	21.2 in	539 mm	21.2 in	566 mm	22.3 in	566 mm	22.3 in	588 mm	23.1 in	588 mm	23.1 in
Е	SEAT TUBE ANGLE	73.	1°	72.5	5°	73.	0	72.5	9	73.1	0	72.5	5°	73.1	0	72.5	5°
F	BB CENTER TO TOP OF SEATTUBE	400 mm	15.7 in	400 mm	15.7 in	440 mm	17.3 in	440 mm	17.3 in	481 mm	18.9 in	481 mm	18.9 in	541 mm	21.3 in	541 mm	21.3 in
G	BB CENTER TO TOPTUBE CENTER	335 mm	13.2 in	335 mm	13.2 in	350 mm	13.8 in	350 mm	13.8 in	403 mm	15.9 in	403 mm	15.9 in	448 mm	17.6 in	448 mm	17.6 in
Н	CHAINSTAY LENGTH	448 mm	17.6 in	448 mm	17.6 in	448 mm	17.6 in	448 mm	17.6 in	448 mm	17.6 in	448 mm	17.6 in	448 mm	17.6 in	448 mm	17.6 in
1	BB OFFSET	-41 mm	-1.6 in	-48 mm	-1.9 in	-41 mm	-1.6 in	-48 mm	-1.9 in	-41 mm	-1.6 in	-48 mm	-1.9 in	-41 mm	-1.6 in	-48 mm	-1.9 in
	BB HEIGHT	324 mm	12.8 in	317 mm	12.5 in	324 mm	12.8 in	317 mm	12.5 in	324 mm	12.8 in	317 mm	12.5 in	324 mm	12.8 in	317 mm	12.5 in
J	STANDOVER HEIGHT	762 mm	30.0 in	758 mm	29.8 in	768 mm	30.2 in	764 mm	30.1 in	806 mm	31.7 in	802 mm	31.6 in	836 mm	32.9 in	833 mm	32.8 in
	WHEELBASE	1082 mm	42.6 in	1082 mm	42.6 in	1112 mm	43.8 in	1112 mm	43.8 in	1143 mm	45.0 in	1143 mm	45.0 in	1163 mm	45.8 in	1163 mm	45.8 in
K	REACH	386 mm	15.2 in	379 mm	14.9 in	416 mm	16.4 in	409 mm	16.1 in	442 mm	17.4 in	436 mm	17.2 in	456 mm	18.0 in	453 mm	17.8 in
L	STACK	602 mm	23.7 in	606 mm	23.9 in	602 mm	23.7 in	606 mm	23.9 in	611 mm	24.1 in	615 mm	24.2 in	623 mm	24.5 in	625 mm	24.6 in
	STEM LENGTH	70 mm	2.8 in	70 mm	2.8 in	80 mm	3.1 in	80 mm	3.1 in	90 mm	3.5 in	90 mm	3.5 in	100 mm	3.9 in	100 mm	3.9 in

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 lockout 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.

5 | 06 ENGLISH SPARK | BIKE USER MANUAL BIKE USER MANUAL | SPARK ENGLISH 07 | 5 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.





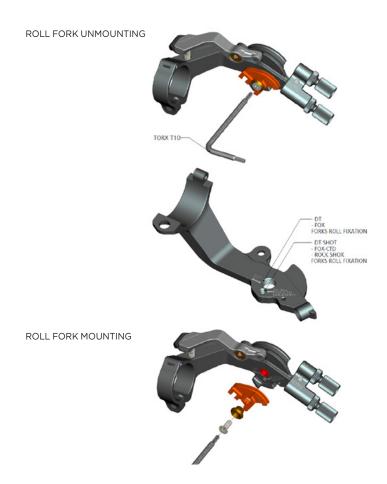
SCOTT offers 2 different TWINLOC levers with following fork/rear shock combinations:

- 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:



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ASSEMBLY OF THE REMOTE CABLE

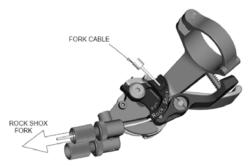
SRAM/ROCKSHOX FORKS

⚠ 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 levereyelet 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.



2. 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 drawing 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 setup.



Parts List

C1	Luc nt	evelet/	Chaale	Dalt
S1	From	evelel /	SHOCK	BOIL

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)



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



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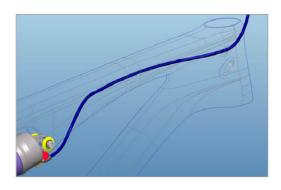
BASIC SET-UP OF THE TWINLOC REMOTE CONTROL OF FOX NUDE SHOCK

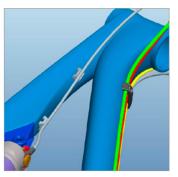
To ensure the FOX Nude shock functions perfectly, it is very important to strictly follow the below steps.

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.







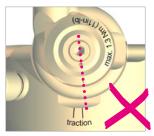
 loosen the cable fixing screw (S7) by turning it counter clockwise with a 2mm allen key.

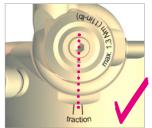


insert a new cable via lever hole and cable housing and push it into the shock as shown around the remote wheel (S6).



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





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



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



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

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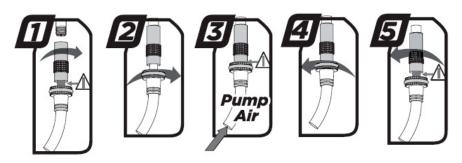
BASIC SET-UP OF THE TWINLOC REMOTE CONTROL OF FOX CTD SHOCK

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

For more details on the FOX CTD please follow the details shown in the manuals of FOX attached to this bike

RECOMMENDED TOOLS FOR THE SHOCK SET-UP

For the set-up of the shock we recommend to use a shock pump with a scale up to 20 bars/300 psi with a special air valve connector preventing from air getting away while removing the pump from the shock valve, this will result in an exact air pressure.



Please note that air will flow into the hose and indicator when counterchecking the air pressure, so you have to set up again the recommended pressure 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 or FOX CTD Shock can be easy done within a few minutes.

⚠ IMPORTANT!

For all adjustments of the air spring the remote lever has to be in position "all travel"

To adjust the air pressure of the air chamber of the FOX Nude or FOX CTD 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. Please use the FOX iRD App available at the 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. When you reached the needed pressure remove the pump and put the valve cap on the valve

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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 instruction:

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

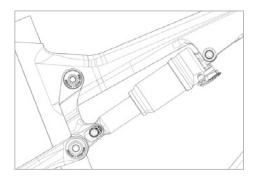
- If it bounces 1-2 times, the set up is good.
- If it bounces more than 3 times the rebound is too fast. Turn the knob 1-2 "clicks" clockwise
- If it does not bounce the rebound is too slow. Turn the knob 1-2 "clicks" counter clockwise.

↑ IMPORTANT!

Note that you have to mount the FOX Nude Shock always as shown below.

Mounting the rear shock in a different position can cause severe damage 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 a dismantlement of 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 can be 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.





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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 want to use a different rear shock model than the one originally on the bike, please make sure that the shock will not in any position hit the frame and cause a damage to the frame.

Please follow the instruction below:

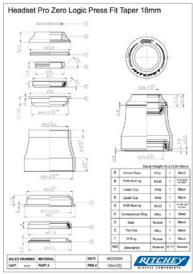
- Please make sure that the rear shock or its accessory parts do not touch the frame when mounting or suspending.
- For doing so release the air/remove the coil, install the shock and compress the shock completely.
- If the shock touches the frame while doing so, do not use this shock in order to avoid damage to frame, swingarm or shock.

HEADSET OPTIONS

Spark features different versions of headset systems.

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 11/8" steerer tube when using a reducer headset, for example:

Ritchey WCS Carbon Zero Tapered PF 50-61mm 18mm UD for 11/18" fork PRD 14860

A straight 11/8" 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.





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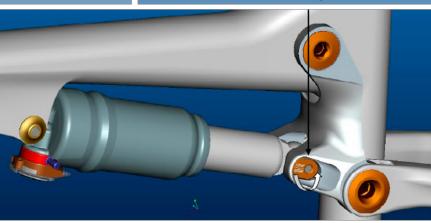
ADJUSTABLE BB HEIGHT

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
	LOW PC	OSITION
HEAD ANGLE	68.3°	69.5°
BB HEIGHT	330mm	317mm
	HIGH PO	DSITION
HEAD ANGLE	68.8°	70°
BB HEIGHT	336mm	323mm

⚠ IMPORTANT!

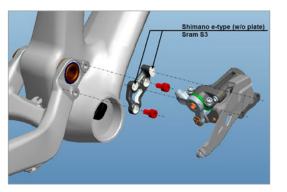
It is not possible to use this geometry chip with other shock models than the FOX Nude /FOX Float CTD. The shock might collide with parts of the frame or linkage bar.

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.



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

235276 FD mount plate Set Spark 700 2014235278 FD mount plate Set Spark 900 2014

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





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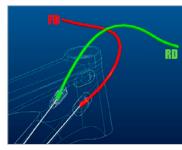
SPARK CABLE ROUTING

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

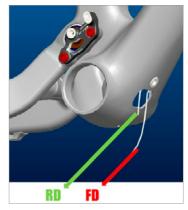
CARBON FRONT FRAMES



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.



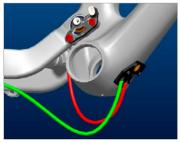
Please note that the inner cables need to cross each other 1 time on the inside of the downtube before you pull them out through the cable slot on the lower downside of the downtube.



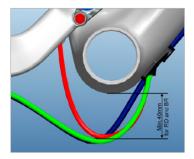
Push the cables through the cable guide as shown below and fix the cable guide on the downtube with a 3mm allen key and a tightening torque of max. 4Nm/35in/lbf.

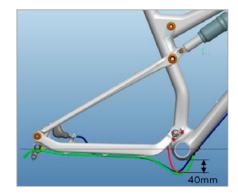


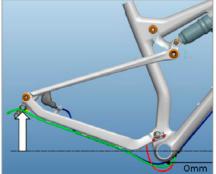
Push the outer cable housings on the cables into the cable guide but make sure to respect the needed length as shown in the next drawing!



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.



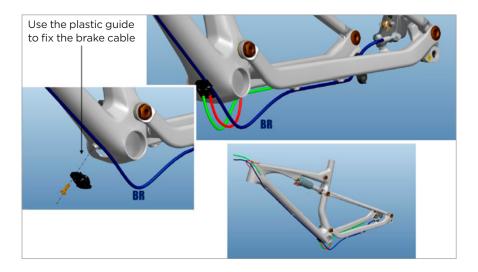




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For the rear brake please assemble the cable as shown in the following drawings:

Please keep in mind to have a minimum distance of 40mm between the brake hose and the BB housing as abovementioned!



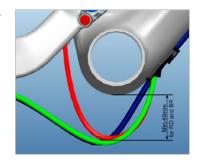
The cable guide can be ordered via the SCOTT distribution with parts number:

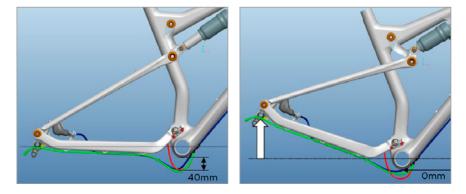
223305 BB Cableguide Spark 2012

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:

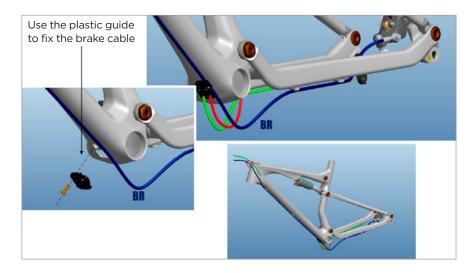
Please make sure to respect the 40mm distance between the cables and the BB (bottom bracket) housing to avoid "ghost-shifting" and/ or damage to the shift cables and brake hoses.





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

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ADJUSTMENT OF SEATPOST-HEIGHT



⚠ IMPORTANT!

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

Never use another seatpost diameter than 31.6mm or try to use a shim/reducer between 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

This is available via the SCOTT distribution:

219574	complete set of RWS 142/12
219577	right side replaceable RD hanger



2. Regular 135mm rear axle with QR

This is available via the SCOTT distribution:

206473 replaceable hanger



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

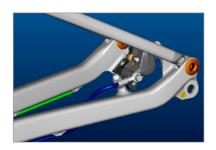
219574	RWS 135/12 parts set
219576	right side replaceable RD hanger
219572	RWS 135/5 parts set
219575	right side replaceable RD hanger

REAR DISC BRAKE MOUNT

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

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

We recommend using front forks with a travel of 150mm (27.5") and 130mm (29"), as this will not influence the geometry and alter handling of the bike.

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

PIVOT MAINTENANCE

The pivot and bearings on SCOTT Genius 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.

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GUARANTEE ON SCOTT BIKES



↑ WARNING!

SCOTT Sports SA is not responsible or liable for any injury caused by any missing compliance with these instructions, particularly but not limited to misuse, incorrect maintenance, incorrect set-up and handling, neglect or abuse. Failure to follow these instructions can result in component failure, serious personal injury, Component failure can lead to loss of control of the bicycle and result in serious personal injury.

What is Covered?

This warranty covers defects in materials and workmanship at the time of transfer of risks in frames, swingarms and forks (provided it is a fork of SCOTT) on SCOTT branded bikes sold completely assembled by SCOTT or an authorized SCOTT dealer ("Product").

How long does coverage last?

This voluntary manufacturer's warranty is limited to five years for frames and swingarms, respectively two years for forks, from the date of purchase of the Product and is limited to the first purchaser of the Product and subject to the prior registration of your SCOTT bike on www.scott-sports.com within 10 days as of the date of purchase. Transfer of the Product from the first purchaser to another person terminates this limited warranty. The limited warranty of five years for the frames and swingarms shall only be granted in case once a year a maintenance service has been effected according to maintenance requirements as set forth in the manual. The effected annual maintenance service shall be confirmed by stamp and signature. In case such an annual maintenance service has not been effected the warranty of five years for the frame shall be reduced to three years. Costs for maintenance and service have to be borne by the owner of the Product.

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

Repaired or replaced Products are covered for the remainder of the original warranty period and subject to the conditions outlined in the original warranty, to the extent permitted by law.

Hereby SCOTT grants a worldwide voluntarily manufacturer's warranty. To the extent permitted by law and unless a shorter duration is stipulated by law, any warranties implied by law are limited in duration to maximum five, respectively two years, from the date of purchase of the Product and are limited to the first purchaser of the Product.

What will SCOTT do?

SCOTT will replace or repair any defective Product, or will refund your purchase price (as evidenced by your tendered receipt of purchase of the Product), at SCOTT's option. You must pay charges in connection with replacement of any non-defective parts. In such a case, you will be alerted to the advisability of replacing non-defective parts, so you can pre-authorize the costs.

What does this limited warranty not cover?

This limited warranty does not cover defects which did not exist before the transfer of risks. This limited warranty does not cover Products used in rental operations. This limited warranty does not cover purchases of not completely assembled bikes. This limited warranty does not cover any defect caused by "wear and tear" (a complete list of all parts of "wear and tear" can be found in the general manual that came with your bike), accident, neglect, improper handling, colour fade due to exposure to sunlight, abuse, misuse, an act of God, improper assembly, non-compliance with recommended maintenance and care procedures, improper or incorrectly performed maintenance or repairs performed by someone other than an authorized SCOTT dealer, use of parts or devices not consistent with the Product, and alteration of the Product.

All Products come with a manual; please carefully follow the instructions located there or affixed elsewhere to the Product. To the extent permitted by law, consequential and incidental damages are not recoverable under this limited warranty.

How do you make a claim under this limited warranty?

To make a claim under this limited warranty, you must notify SCOTT of the claimed defect within the warranty period and timely return the Product to SCOTT at your expense for inspection. Please contact your authorized SCOTT dealer, call SCOTT's customer service or the national SCOTT distributor (dealer locator: www.scott-sports.com). All returned Products must be accompanied by proof of purchase (receipt) from an authorized SCOTT dealer or this limited warranty will not apply. In case of replacement or refund. returned Product becomes the property of SCOTT.

A protocol for the handing over of the Product (which you will find at the end of the manual) 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 or this limited warranty will not apply.

How do state laws affect your rights under this limited warranty?

This limited warranty gives you specific legal rights, and you may also have other rights. which vary from state to state.

Recommendation

We strongly recommend that you use only authorized SCOTT dealers for yearly maintenance services and for repairs, as improper or incorrectly performed maintenance or repairs voids this limited warranty. Costs for maintenance service have to be borne by the consumer.



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