

SCOTT SCALE USER MANUAL

INNOVATION TECHNOLOGY DESIGN

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WWW.SCOTT-SPORTS.COM

SCOTT Sports SA Route du Crochet 17, CH-1762 Givisiez Phone: +41 26 460 16 16 | Fax: +41 26 460 16 00 Email: scottsupport@scott-sports.com



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The Scale bikes should be adjusted exactly to the current rider to maximize safety, comfort and fun while riding.

All adjustments should be done at your local SCOTT dealer or by following the instructions in this manual.

Please contact your authorized SCOTT dealer if you have any doubts or require further information in order to avoid technical problems or any harm.

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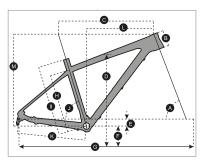
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F SCALE CONCEPT

Scale is the result of research and development based on the feedback from the SCOTT-ODLO Racing Team searching for one of the lightest cross country racing frames in the market.

SCOTT's focus was not only on creating a lightweight frame, but one that was also a stiff and easy to handle racing frame.

▼ GEOMETRY/TECHNICAL DATA SCALE



Seatpost diameter	Scale 700 / Plus: 31.6mm (27.5"), Scale 900: 34.9mm (29")
Seattube clamp	Scale 700 / Plus: 34.9mm (27.5"), Scale 900: 38.2mm (29")
Headtube diameter	11/8" /1.5", tapered, cups semi-integrated, 50-61mm cup OD
Fork travel	Scale 700 / 900: 100mm, Scale Plus: 120mm
Technical fork length	Scale 700: 487mm (27.5"), Scale 900: 506mm (29"), Scale Plus: 520mm
BB housing	PF BB 92
Rear Hub Width	Scale 700 / 900: IDS SL2 135-5/135-12/142- 12mm, Scale Plus: Boost 148/12mm
Max tire width	Scale 700 / 900: 57.5mm/2.25", Scale Plus: 74mm/2.9"
Chainring size	Scale 700 / 900: min. 22T, max. 44T, Scale Plus: Max 34T (single)

▼ GEOMETRY/TECHNICAL DATA SCALE

SCALE 700	S		М		L		XL	
A HEAD TUBE ANGLE	69.0	0	69.0	•	69.0	•	69.0	١ ٥
B HEAD TUBE LENGTH	100.0 mm	3.9 in	100.0 mm	3.9 in	115.0 mm	4.5 in	125.0 mm	4.9 in
C TOP TUBE HORIZONTAL	575.0 mm	22.6 in	600.0 mm	23.6 in	625.0 mm	24.6 in	650.0 mm	25.6 in
D STANDOVER HEIGHT	728.9 mm	28.7 in	758.0 mm	29.8 in	786.8 mm	31.0 in	819.7 mm	32.3 in
E BB OFFSET	-44.0 mm	-1.7 in						
F BB HEIGHT	307.5 mm	12.1 in						
G WHEEL BASE	1'075.2 mm	42.3 in	1'100.2 mm	43.3 in	1'126.3 mm	44.3 in	1'152.0 mm	45.4 in
H BB CENTER TO TOPTUBE CENTER	315.8 mm	12.4 in	369.3 mm	14.5 in	409.3 mm	16.1 in	458.2 mm	18.0 in
I BB CENTER TO TOP OF SEATTUBE	390.0 mm	15.4 in	440.0 mm	17.3 in	480.0 mm	18.9 in	530.0 mm	20.9 in
J SEAT ANGLE	73.0	۰	73.0	۰	73.0	۰	73.0	٥
K CHAINSTAY	427.0 mm	16.8 in						
L REACH	398.1 mm	15.7 in	423.1 mm	16.7 in	443.8 mm	17.5 in	466.0 mm	18.3 in
M STACK	578.6 mm	22.8 in	578.6 mm	22.8 in	592.6 mm	23.3 in	601.9 mm	23.7 in
N STEM LENGTH	70.0 mm	2.8 in	80.0 mm	3.1 in	90.0 mm	3.5 in	100.0 mm	3.9 in

SCALE 900)	S		М		L		XL	
A HEAD TUBE ANGLE		69.5	0	69.5	•	69.5	٥	69.5	٥
B HEAD TUBE LENGTH	***	105.0 mm	4.1 in	105.0 mm	4.1 in	115.0 mm	4.5 in	125.0 mm	4.9 in
C TOP TUBE HORIZONTA	L	580.0 mm	22.8 in	600.0 mm	23.6 in	620.0 mm	24.4 in	640.0 mm	25.2 in
D STANDOVER HEIGHT		756.0 mm	29.8 in	783.0 mm	30.8 in	810.0 mm	31.9 in	842.0 mm	33.1 in
E BB OFFSET		-60.0 mm	-2.4 in						
F BB HEIGHT		310.0 mm	12.2 in						
G WHEEL BASE		1'079.0 mm	42.5 in	1'096.8 mm	43.2 in	1'117.0 mm	44.0 in	1'137.9 mm	44.8 in
H BB CENTER TO TOPTU	BE CENTER	329.0 mm	13.0 in	375.0 mm	14.8 in	415.0 mm	16.3 in	465.0 mm	18.3 in
I BB CENTER TO TOP OF	SEATTUBE	390.0 mm	15.4 in	440.0 mm	17.3 in	480.0 mm	18.9 in	530.0 mm	20.9 in
J SEAT ANGLE		72.5	•	72.5	0	72.5	0	72.5	•
K CHAINSTAY		438.0 mm	17.2 in						
L REACH		385.0 mm	15.2 in	405.0 mm	15.9 in	422.0 mm	16.6 in	439.0 mm	17.3 in
M STACK		618.0 mm	24.3 in	618.0 mm	24.3 in	628.0 mm	24.7 in	637.0 mm	25.1 in
N STEM LENGTH		70.0 mm	2.8 in	80.0 mm	3.1 in	90.0 mm	3.5 in	100.0 mm	3.9 in

٦	CALE PLUS	S		М		L		XL	
Α	HEAD TUBE ANGLE	67.6	۰	67.6	0	67.6	0	67.6	0
В	HEAD TUBE LENGTH	100.0 mm	3.9 in	105.0 mm	4.1 in	115.0 mm	4.5 in	125.0 mm	4.9 in
С	TOP TUBE HORIZONTAL	577.0 mm	22.7 in	602.0 mm	23.7 in	627.0 mm	24.7 in	652.0 mm	25.7 in
D	STANDOVER HEIGHT	780.0 mm	30.7 in	806.0 mm	31.7 in	829.0 mm	32.6 in	857.0 mm	33.7 in
Ε	BB OFFSET	-50.0 mm	-2.0 in						
F	BB HEIGHT	315.0 mm	12.4 in						
G	WHEEL BASE	1'108.0 mm	43.6 in	1'133.4 mm	44.6 in	1'159.3 mm	45.6 in	1'185.2 mm	46.7 in
Н	BB CENTER TO TOPTUBE CENTER	328.0 mm	12.9 in	383.0 mm	15.1 in	425.0 mm	16.7 in	477.0 mm	18.8 in
I	BB CENTER TO TOP OF SEATTUBE	390.0 mm	15.4 in	440.0 mm	17.3 in	480.0 mm	18.9 in	530.0 mm	20.9 in
J	SEAT ANGLE	72.8	0	72.8	0	72.8	٥	72.8	٥
K	CHAINSTAY	439.0 mm	17.3 in						
L	REACH	389.0 mm	15.3 in	412.0 mm	16.2 in	435.0 mm	17.1 in	457.0 mm	18.0 in
М	STACK	607.0 mm	23.9 in	612.0 mm	24.1 in	621.0 mm	24.4 in	631.0 mm	24.8 in
Ν	STEMLENGTH	50.0 mm	2.0 in	60.0 mm	2.4 in	70.0 mm	2.8 in	80.0 mm	3.1 in

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SCALEDITIS

BB STANDARDS/FD MOUNTING DETAILS

Scale is available for PressFit 92 Cartridges (PF92).

PF BB 92 has a housing width of 92mm (Scale 700) or 89.5mm plus a 2.5mm additional washer (Scale 900, Scale Plus) with an inner diameter for the cartridges of 41mm.



Scale 700 (27.05") FD

The front derailleur (FD) fixation for Scale 700 is a direct mount system.

It is made for Shimano E-Type derailleurs or SRAM S3 assembly.

For Scale Plus the FD fixation is E-Type with 3mm outboard to match with rear hub boost standard.

In addition it has an integrated chainguide assembled on this fixation plate.



Scale 900 (29") FD

The Front Derailleur (FD) clamp is with an inner diameter of 34.9mm, the cable routing on the frame is for "down route/pull - down swing" models.

⚠ IMPORTANT!

Please note that the maximum tightening torque on the FD clamp is 5Nm/44in/lbs.

A higher tightening torque might cause damage to the FD camp and/or frame tube! Please also refer to the related manuals of the manufacturer of the FD.

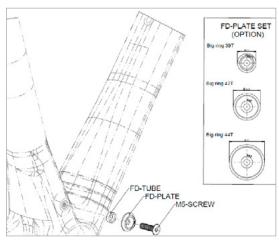
P CHAINGUIDE

On some Scale 900 (29") Carbon models you will find a chainguide system to support the shifting performance when using 2 chainring cranksets.

3 different mounting plates are available to match the different sizes of the outer chainrings (39/42/44T).

Please note the max. tightening torque of 5Nm/44 in/lbs on the mounting screw of the plate.





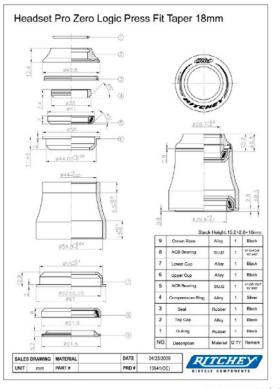
▼ HEADSET OPTIONS

Scale features a tapered headset and fork steerer system to match with semi-integrated headsets of the "50-61"mm range.

The steerers of those forks are tapered from 1.5" to 11/8".

This bigger diameter of the fork steerer as well as on the frame headtube helps to increase the stiffness and handling of the bike.





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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 such as e.g.

Ritchey WCS Carbon Zero Tapered	PF 50-61mm	18mm UD for 1 1/18" fork	PRD 14860
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▶ BB CABLE GUIDE/CABLE ROUTING

Scale features also an internal cable routing for front and rear derailleur.

A special BB Cable Guide was developed for Scale which is available as a spare part at the SCOTT distribution with article number

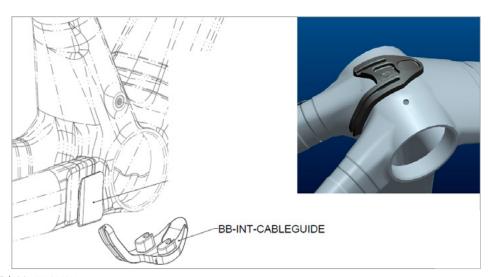
for Scale 700

235285 Cableguide BB Scale 700 2014

and for Scale 900

219579 Cableguide BB Scale

Please note that those 2 cablequides are not interchangeable between the frame sizes.



Please note that the outer housing of the FD and RD cables will stop at the cable stop/port on the front end of the down tube.



If you want to replace the cables, please follow these steps:

- 1. Remove the clip-in BB Guide in the BB housing
- 2. Push the inner cables from the front downward inside the downtube to the BB housing.
- 3. Pull them out of the related holes (RD on right side, FD on left side) on the BB housing.





- 4. Push them through the related holes on the BB Guide and clip the BB Guide into the BB housing
- 5. Follow the standard set up and assembly instructions of the shifting system manufacturer for final adjustment of the shifting system

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F SEATTUBE CLAMP

Please make sure to only use a seatclamp with an inner diameter of 34.9mm (Scale 700 / Plus) or 38.2mm (Scale 900) and please note the maximum tightening torque on the fixing bolt of 5Nm/44 in/lbs

▼ REPLACEABLE REAR DERAILLEUR HANGER

Scale uses the same replaceable rear derailleur hanger system (called IDS SL2) as SCOTT Spark, Genius and Genius LT.

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

1. 142mm axle with RWS 142/12

This is available via the SCOTT distribution with:

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

2.135mm axle with RWS 135/5

This is available via the SCOTT distribution with:

219572	complete set of RWS 135/5
219575	right side replaceable RD hanger

If you want to use another RWS standard SCOTT can also offer the following as after-market parts for specific wheelsets via the SCOTT distribution:

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

F REAR DISC BRAKE MOUNT



The rear disc brake on Scale is Postmount (PM) Standard on the left chainstay and optimized for 160mm/6" rotors, so the calliper can be mounted directly without adapters on the Postmount fixation.

Please note Scale is designed for disc rotors between 160mm/6" and 185mm/7" (adapter needed from manufacturer of the brake) only.

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 distance of

487mm/19.2" for Scale 700,

506mm/19.9" for Scale 900,

520mm/20.5" for Scale Plus

between mid of axle to top of crown, as this will not influence the geometry and alter handling of the bike.

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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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