

SCOTT VOLTAGE FR USER MANUAL

INNOVATION TECHNOLOGY DESIGN

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The Voltage FR 700 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.

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### **VOLTAGE FR CONCEPT**

Voltage FR 700 is the result of years of research and development searching for one of the most versatile, durable and affordable gravity bikes available on the market, but still easy in set-up and maintenance.

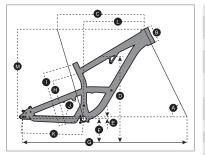
SCOTT's focus was not only on lightweight but also on a durable and sturdy frame with an optimized kinematics of the rear swingarm.

Voltage FR 700 was designed for riders looking for a dual suspended gravity bike offering rear wheel travel of 190mm.

The Voltage FR Concept is based on an improved multi-pivot technology designed specifically around the new 27.5" wheels.

In combination with the linear coil-over shock characteristics the kinematics guarantees a progressive suspension, adapted to smooth riding (beginning of travel) as well as extreme jumps (end of travel).

# **GEOMETRY/TECHNICAL DATA VOLTAGE FR 700**



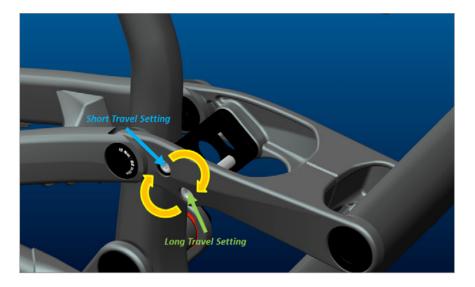
Sizes	S, M and L
Frame Travel	170/190mm depending on the
	shock position.
Piston stroke	76mm (3")
Shock length (Eye	241mm (9.5")
to Eye)	
Fork travel	170-200mm (27.5" wheel) -
	180-200mm (26" wheel)
Fork length	560-586mm (27.5" wheel) -
	565-586mm (26" wheel)
Hardware Mainframe	22.2mm x 8mm
Hardware Swingarm	22.2mm x 8mm
Seatpost diameter	31.6mm
Headtube diameter	1.5"
Headset	Semi integrated
BB housing	73mm
Front derailleur	No
Rear Hub Width	135mm
Drop out option	12mm thru axle: 425mm/415mm,
	nutted axle: 425mm
Max tire width	61mm (2.35 Schwalbe or
	2.5 Maxxis)
Wheel size	27.5": 425mm DO Only /
	26": 425mm and 415mm DO
Bearings	4 x 61805 / 4 x 6902
Chainguide	ISCG05
Chainring	Single speed, 34T to max. 38T

		S		М		L	
		LOW BB S	ETTING	LOW BB SI	ETTING	LOW BB S	ETTING
Α	HEAD TUBE ANGLE	64.0	۰	64.0	•	64.0	٥
В	HEAD TUBE LENGTH	115.0 mm	4.5 in	115.0 mm	4.5 in	115.0 mm	4.5 in
С	TOP TUBE HORIZONTAL	569.6 mm	22.4 in	604.6 mm	23.8 in	629.6 mm	24.8 in
D	STANDOVER HEIGHT	776.6 mm	30.6 in	770.6 mm	30.3 in	770.3 mm	30.3 in
Е	BB OFFSET	-13.0 mm	-0.5 in	-13.0 mm	-0.5 in	-13.0 mm	-0.5 in
F	BB HEIGHT	345.0 mm	13.6 in	345.0 mm	13.6 in	345.0 mm	13.6 in
G	WHEEL BASE	1,165.2 mm	45.9 in	1,200.2 mm	47.3 in	1,225.2 mm	48.2 in
Н	BB CENTER TO TOPTUBE CENTER						
1	BB CENTER TO TOP OF SEATTUBE	368.8 mm	14.5 in	368.8 mm	14.5 in	368.8 mm	14.5 in
J	SEAT ANGLE	73.5	•	73.5	•	73.5	۰
K	CHAINSTAY	425.0 mm	16.7 in	425.0 mm	16.7 in	425.0 mm	16.7 in
L	REACH	385.0 mm	15.2 in	420.0 mm	16.5 in	445.0 mm	17.5 in
М	STACK	623.1 mm	24.5 in	623.1 mm	24.5 in	623.1 mm	24.5 in
Ν	STEMLENGTH	50.0 mm	2.0 in	50.0 mm	2.0 in	50.0 mm	2.0 in

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#### **ADJUSTABLE REAR TRAVEL**

Depending on the different models of Voltage FR you'll find the shock mounted at 2 different positions that will provide 2 different suspension travels to the frames without changing seat/headtube-angles or riding position on the bike.



Long travel setting: 190mm Short travel setting: 170mm

# **⚠** IMPORTANT!

After a dismantlement of the rear shock, both fixing bolts should be tightened with a tightening torque of 35Nm/308in-lbs.

If this is not done correctly the rear shock can be damaged.

In addition we strongly recommend using a tightening torque key with a 6mm allen key insert.

### **REAR SUSPENSION SET-UP VOLTAGE FR 700**

The Set-Up of the rear shock can be easily done within a few minutes.

Please take this time to avoid dangerous riding performance and to get the best out of your Voltage FR.

Please make sure that the coil spring on the shock matches to your riding weight (including your riding gear).

We recommend following coil springs:

50-60kg	250x3.25
60-70kg	300x3.25
70-80kg	350x3.25
80-90kg	400x3.25

For fine tuning the SAG and the corresponding eye-to-eye distance of the shock bolts you can tighten or release the pretension of the coil spring but please respect the maximum and minimum spring indications of the shock manufacturer.

The eye-to-eye distance between the shock bolts should be in basic set up 144.6mm (40% SAG).

For further details on the shock set-up please follow the indications of the rear shock manufacturer attached to this bike.

### **BASIC SET-UP OF REBOUND**

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

By using the red rebound screw 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 screw 1-2 "clicks" clockwise
- If it does not bounce the rebound is too slow. Turn the screw 1-2 "clicks" counter clockwise.

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### **RECOMMENDED TOOLS FOR SET-UP**

Please read this manual and the rear shock manufacturer's manual carefully before you start the set-up procedure.

In addition we strongly recommend using a tightening torque key with a 6mm allen key insert.

## **REAR SHOCK MOUNTING POSITION**

Please make sure to mount the rear shock of your SCOTT Voltage FR 700 always as shown in the picture below (piggy back in the "Top/Bottom" position).



### **SET-UP OF OTHER SHOCK MODELS**

SCOTT strongly recommends only using the originally specified shock with the Voltage FR bike, as the shock has been carefully chosen to fit and work perfectly with this bike.

If you use a different rear shock model than the original shock on the bike, please avoid potential damage to the frame by checking thoroughly that the shock does not hit the frame in any position.

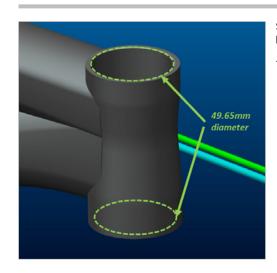
Please follow these instructions:

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

To check this, 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 STANDARD**



Standard Semi integrated: 1.5" headset cup can be used.

- S.H.I.S: ZS49 / 28.6 | ZS49 / 30

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#### **ADJUSTABLE HEADSET**



In addition Syncros Pressfit DH Adjustable headset (SCOTT part number : 228442) can be used to change the geometry (+/-1° or +/-2° head angle) and modify the ride feeling of the bike

### **SEATPOST STANDARD**

Voltage FR 700 is compatible with 31.6mm diameter seat post and 34.9mm Seatclamp diameter.

Please note that maximum insertion is 120mm Maximum.



### **BB STANDARD**







**Chainguide mount tab:** ISCG05 **Chainring size:** 38T maximum size

#### **IDS DROP OUT SYSTEM**

The Voltage FR 700 offers the possibility not only to change drop out hanger in case of damage, you also can choose between different drop outs of the SCOTT IDS (Interchangeable Drop-Out System):

## Thru axle setup



## **Nutted Axle Setup**



#### **REAR HUB SPACING**

135mm width hub

## REAR HUB AXLE DIAMETER

For thru axle hubs - 12mm axle. Use only SCOTT provided axle.

For nutted hubs - 12mm nutted axle.

Please contact your local SCOTT dealer for supply of those parts in case you want to re-fit your bike with one of those versions.

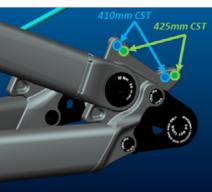
#### **REAR BRAKE MOUNT STANDARD**

IS rear brake mount.

No adapter needed for 160mm disc size.

Adapter needed for 180mm and 200mm disc sizes.

#### Thru axle setup



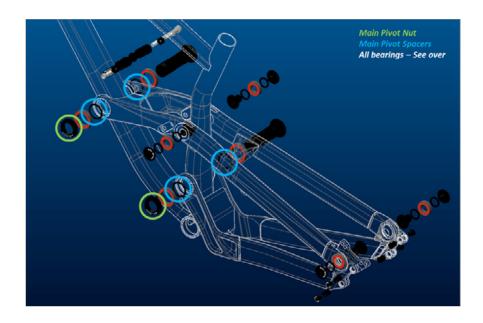
#### **Nutted Axle Setup**



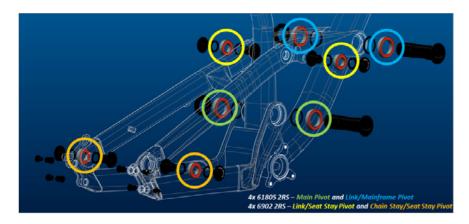
#### **FRAME HARDWARE**

Some hardware is shared with Gambler 700 MY15: Main pivot nuts, main pivot spacers and all bearings, as highlighted in the pictures below.

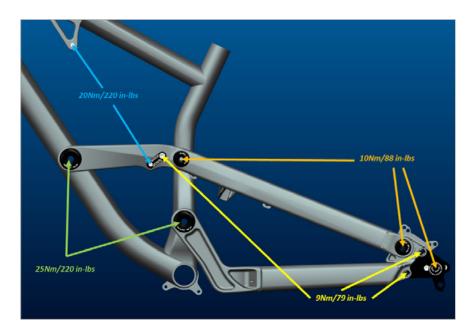
- 4 x 61805 2RS
- 4 x 6902 2RS



## **Bearing kit**



#### Pivot and hardware torque values



#### **PIVOT MAINTENANCE**

The pivots and bearings on SCOTT Voltage FR 700 are extremely easy to maintain.

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

# **ATTENTION!**

We strongly recommend going to your local SCOTT dealer if the swingarm requires repair or assembly/disassembly in order to avoid injuries and damage caused by incorrect set-up.

Should you choose to order a bearing service tool kit or a kit with all necessary bearings, these are available to order at your local SCOTT dealer using the SCOTT article numbers below. Alternatively, order from a hardware store using the bearing information in the Geometry/Tech Data section of this manual.

# 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.

The recommended Fork lengths for the SCOTT Voltage FR 700 are:

Wheel sizes	Front fork length range	Max fork offset	Accepted fork travel range	
27.5"	586mm / 560mm	52mm	203mm/170mm	
26"	586mm / 565mm	52mm	203mm/180mm	



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# **CABLE ROUTING**

**Mainframe Routing:** External for both gear and brake via 3 cable guides. Cables exit mainframe under link.



**Rear Triangle Routing:** Internal gear routing through right seat stay via entry just after link and exit just before drop out.



## Brake external along seat stay via 3 cable guides



#### **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.

