



**2005 Reign SERIES
DUAL-SUSPENSION BIKE
TECHNIC MANUAL**





CONTENTS

PRODUCT FEATURE

SECTION 1. SIZING

SECTION 2. REAR SHOCK

SECTION 3. TORQUE SETTING

SECTION 4. EXPLODE DRAWING



Reign Product feature

This bike is long travel XC bike. It can be go anywhere and anything.

The rear suspension system is a new design which is called maestro, this maestro feature is vpp design and to get the overall suspension behavior to the best not only one point is the best .

1. Minimal power loss
2. Low kickback
3. Minimal brake lockout
4. Linear rising rate suspension design
5. Best traction

The Reign has some features are design as below

1. 5.8" rear travel and 6" front fork
2. Full cartridge bearing design
3. Diamond shape frame design for light weight and better rigidity
4. Full seat post adjustment
5. Full range size (15"~21")
6. Aluxx SL tube



1. Sizing

The actual frame measurements and geometries are listed below.

Size	15.5"	16"	18"	20"	21"
Top Tube (mm)	560	570	590	613	630
Seat Tube (mm)	394	406	457	508	533
Seat Angle	73.5°	73.5°	73.5°	73°	73°
Head Angle	70°	70°	70°	70°	70°
B.B. Drop (mm)	-12	-12	-12	-12	-12
Rear Center (mm)	438	438	438	438	438
Wheel Base (mm)	1071.4	1082.2	1105.5	1127.1	1145.5

2. Rear shock

The Reign series is all purpose dual suspension long travel XC bike. The Reign bike is capable of climbing and descent the most technical of trails. The Reign offer three ProPedal damping setting to reduces pedal induced suspension bob. You can find s setting that suits your riding style. Please follow the guidelines below in setting up and maintaining your Giant Trance bike.



pump



SPV 3 WAY SHOCK

Setup

SPV SET-UP QUICK REFERENCE GUIDE

This quick reference guide is to be used for setting up the any Swinger shock. Follow this order to ensure the best possible tuning.

*** Coil and Air Shock Initial Set Up**

1. Adjust Sag:

Sag is the amount the shock compresses under normal body weight. On the air shock, there are sag incrementations on the inside of the shock that can be used to help adjust sag.

Cross country: 25-30% Sag
Freeriding: 30-40% Sag

2. Set SPV Pressure:

Range should be between 75 and 150 psi. Pressure should be between 50-70% of body weight. More pressure will create more compression damping, hold the bike up more and pedal better. Less pressure will create less compression damping, allow more sag, and be more responsive and supple.

3. Set SPV Volume:

You should begin with the 16mm adjuster completely backed out. Turning the volume adjuster inwards will create a more progressive damping effect making the suspension firmer from the middle to bottom out. Turning the volume adjuster outwards will make the rear shock more linear in compression damping and be a softer finish.

4. Rebound Damping:

Turn the blue knob located on the eyelet mount clockwise to increase rebound damping.

5. Low Speed Compression Damping (6-way adjust only):

Turn in the red adjustment knob to increase chassis stability (also may decrease supply feel of shock).

6. High Speed Compression Damping (6-way adjust only):

Turn in the black adjustment knob to increase high-speed bottom resistance.



*Note:

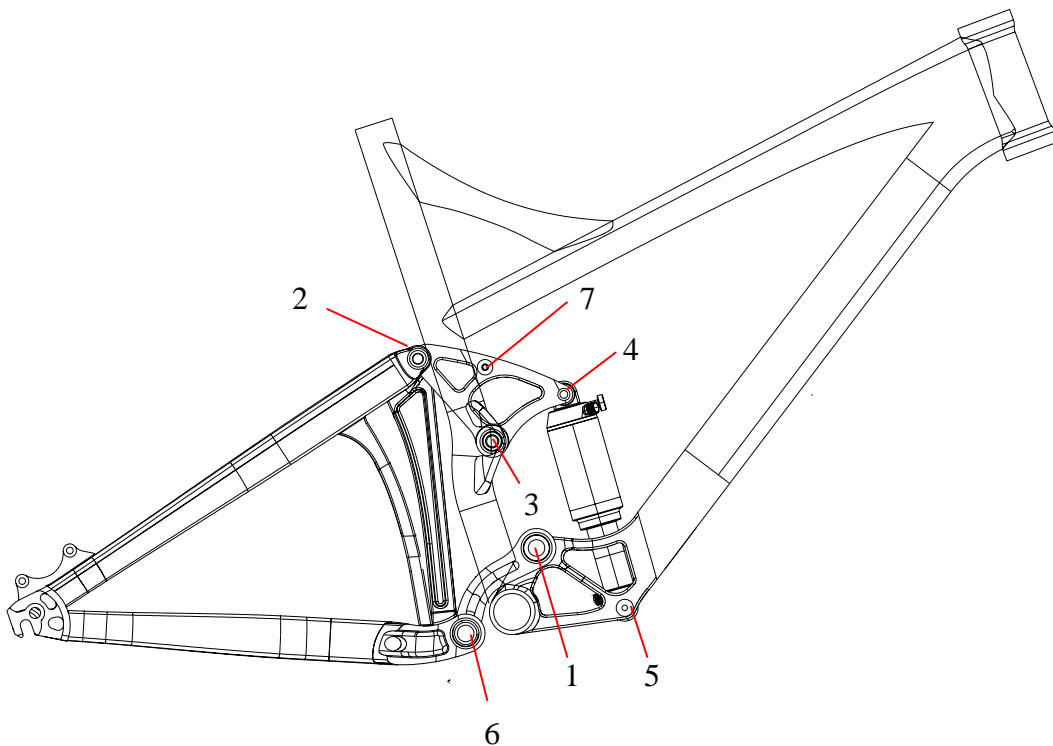
On the 6-way shock, please make sure that the two compression adjuster knobs on the reservoir are fully open when setting the shock pressure and volume. You can turn them after you set up the pressure and volume adjuster to achieve more compression damping.

3. Torque settings

The bolts used to attach the rear suspension unit are very high grade products factory installed to specific torque specification. If it becomes necessary to remove or tighten the pivot bolts extreme care should be taken when re-tightening them.

All bolts should be cleaned and re-set using LocTite Primer (# 243)

All bolts location and tighten torque please refer to the illustration below.



Torque settings:

- | | |
|--------------------------|--------------------------------------|
| 1. Main pivot | 120 -150 Kgf/cm. or 104 -130 in-lbs. |
| 2. Seatstay pivot | 120 -150 Kgf/cm. or 104 -130 in-lbs. |
| 3. Main linkage pivot | 90 -110 Kgf/cm. or 78 - 95 in-lbs. |
| 4. Upper shock mount | 90 -110 Kgf/cm. or 78 - 95 in-lbs. |
| 5. Lower shock mount | 120 -150 Kgf/cm. or 104 -130 in-lbs. |
| 6. Chainstay pivot | 120 -150 Kgf/cm. or 104 -130 in-lbs. |
| 7. Linkage connect pivot | 90 -110 Kgf/cm. or 78 - 95 in-lbs. |

4.Explode Drawing

THE DRAWING BELOW SHOWS RELATIONS OF EVERY PARTS AND FRAME

