

RIDE LIFE.  
RIDE GIANT.

 **GIANT**

Photo: Cameron Baird



# TRAIL BLAZER.

*Introducing the all-new Trance range*



# TRANCE ADVANCED

Whether you're pinning on a number for a weekend enduro race, or ripping laps in your favorite trail network, the all-new Trance Advanced delivers cutting-edge performance so you can climb faster and descend with more control. With updated frame geometry that's now longer and lower, plus an updated Maestro suspension system with a new trunnion mount and Advanced Forged Composite rocker arm, you get 140mm of smooth, active rear travel and more confident handling on all types of trails.

## KEY PERFORMANCE FACTORS

**SUPERIOR SUSPENSION:** Updated Maestro suspension setup includes a trunnion mount shock and Advanced Forged Composite Technology upper rocker arm for increased pedaling and braking efficiency. This update also results in a lower center of gravity and shorter chainstays for improved climbing and agility.

**OPTIMIZED RIDER POSITIONING:** A longer toptube (10mm longer than previous generation) provides a more aggressive, "long and low" rider position for improved trail-riding efficiency and control.

**STABILITY AND QUICKNESS:** The bottom bracket is 5mm lower than the previous generation, producing a lower center of gravity for greater stability at speed. And a more compact rear end (5mm shorter rear/center length) improves climbing and agility on the trail.

## FEATURES

- 27.5-inch wheel specific geometry optimizes control, acceleration and stability.
- New trunnion mount shock improves suspension performance.
- Internal dropper cable routing for clean performance and looks.
- Internal cable routing for sleek, uncluttered performance and looks.
- Integrated downtube and chainstay protection prevents damage from trail debris.
- Boost 15x110 [F], 12x148 [R] hub spacing improves stiffness, trail handling and tire clearance.
- ISCG-05 chain guide compatibility

## TECHNOLOGIES

- Advanced-grade composite mainframe for ideal blend of weight and stiffness.
- New Advanced Forged Composite Technology upper rocker arm for increased strength and stiffness, and lighter weight.
- Maestro Suspension Technology delivers the most active, efficient and independent rear suspension.
- MegaDrive downtube connects the massive headtube and bottom bracket area for unmatched frame stiffness.
- OverDrive steerer tube for precise front-end steering stiffness.
- PowerCore bottom bracket for unparalleled pedaling efficiency.



## GEOMETRY

Size	Head Angle	Seat Angle*	Toptube**	Headtube	Chainstay	Wheelbase	Standover Height***	Stack	Reach	BB Drop
	Degrees	Degrees	cm	cm	cm	cm	cm	cm	cm	cm
S	67.0	73.5	58.0	10.0	43.5	112.9	70.1	58.7	40.6	1.5
M	67.0	73.5	61.0	10.5	43.5	116.0	72.3	59.1	43.5	1.5
L	67.0	73.5	63.0	13.0	43.5	118.3	76.8	61.4	44.8	1.5
XL	67.0	73.5	65.5	14.5	43.5	120.9	78.8	62.8	46.9	1.5

\*Seat angle is actual

\*\*Toptube is measured from the center of the headtube horizontally back to the top of the effective extension of the seat tube

\*\*\*Standover height is based on the largest size tire that will fit the bike, not necessarily the included size tire





# TRANCE ADVANCED

Now featuring 140mm of rear suspension travel and 150mm up front, plus the superior all around performance of 27.5-inch wheels, this progressive trail bike has been updated to perform even better on technical trails. The refined Maestro suspension system includes a new trunnion mount shock and Advanced Forged composite rocker arm, which makes the whole chassis lighter and stronger. And overall frame geometry has evolved with shorter chainstays and a longer toptube for confident handling on aggressive terrain. Here's a look at all the technologies that make the new Trance Advanced the ultimate choice for rugged trail riding.



## TECHNOLOGY

### 1 ADVANCED COMPOSITE MAINFRAME

High-performance grade raw carbon fiber and custom resin is used to produce this high-quality frame in Giant's own composite factory. Handcrafted monocoque construction makes it extremely lightweight, stiff and compliant.

### 2 27.5-SPECIFIC GEOMETRY

Updated "long and low" XC frame geometry is tailored for 27.5-inch wheels to optimize control, acceleration and stability.

### 3 BOOST TECHNOLOGY

Wider hub spacing (110mm front/148mm rear) results in stiffer wheels for added control plus more tire clearance and an improved chainline for optimal drivetrain performance.

### 4 ADVANCED FORGED COMPOSITE UPPER ROCKER ARM

A state-of-the-art, high-pressure molding process is used to produce complex-shaped carbon-fiber components that are lighter, stiffer and stronger than similar aluminum components.

### 5 MAESTRO SUSPENSION

Uses four strategically positioned pivot points and two linkages that work together to create a single floating pivot point for the most active, efficient suspension system.

### 6 TRUNNION MOUNT

New shock mount produces a lower leverage ratio for increased pedaling and braking efficiency, plus a lower center of gravity and shorter chainstays for improved handling, climbing and agility.

### 7 POWERCORE

A massively oversized bottom-bracket/chainstay area features a fully integrated, 92-millimeter wide bottom-bracket design. Asymmetric chainstays provide additional stiffness on the driveside and stability on the non-driveside.

### 8 OVERDRIVE

Designed to provide precise front-end steering performance, the system's oversized headset bearings (1 1/2" lower and 1 1/8" upper) and tapered steerer tube work in conjunction to provide optimal steering stiffness.

### 9 GIANT WHEELSYSTEM

Engineered with proprietary Dynamic Balanced Lacing technology, Giant's all-new TRX Composite WheelSystem delivers superior efficiency, pinpoint control and engineered durability.



# TRANCE

Be ready for any terrain. Technical climbs, rowdy descents, all-day epics. This is a trail bike that thrives in the most challenging conditions. With a lightweight yet stiff ALUXX SL aluminum frame and an updated Maestro suspension system that gives you 140mm of smooth and active rear travel, the new Trance is born to blaze trails.

## KEY PERFORMANCE FACTORS

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## TECHNOLOGIES

- ALUXX SL-grade aluminum frame provides lightweight, stiff and efficient performance.
- New Advanced Forged Composite Technology upper rocker arm for increased strength and stiffness, and lighter weight.
- Maestro Suspension Technology delivers the most active, efficient and independent rear suspension.
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# TRANCE

The all-new Trance trail bike is built on a lightweight ALUXX SL aluminum frame with an updated Maestro suspension system that features a new trunnion mount and an Advanced Forged composite rocker arm. It all adds up to a lighter and stiffer chassis with increased confidence and control. Here are some of the technologies that make Trance the right choice for all-around trail performance.



## TECHNOLOGY

### 1 ALUXX SL ALUMINUM FRAME

State-of-the-art aluminum frameset material features best-in-class strength-to-weight ratios and unique welding technologies for a high-performance ride quality.

### 2 27.5-SPECIFIC GEOMETRY

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# MAESTRO SUSPENSION TECHNOLOGY

Whatever off-road adventures you seek, Giant's Maestro Suspension helps you make the most of your efforts. Control, traction, comfort, speed — you get more of everything with Maestro. From fast and efficient XC bikes to long-travel downhill machines, Maestro is an adaptable full-suspension platform that offers smooth, active rear suspension for any type of trail and all kinds of terrain.

## THREE KEY BENEFITS:

### PEDALING EFFICIENCY

Whether you're sprinting up a climb or hammering through a rock garden, Maestro Suspension performs consistently under pedaling power and doesn't compromise efficiency.

### COMPLETE SUSPENSION ACTIVITY

From high-frequency trail vibrations to big-hit compressions, Maestro Suspension soaks up the full spectrum of trail impacts.

### TOTAL BRAKE INDEPENDENCE

Even under full braking force, Maestro Suspension stays active and gives you better control.

## HOW IT WORKS

### 1. CONTACT EQUALS CONTROL

**FEATURE:** Maestro's near vertical wheel path and linear spring curve allow the rear suspension to remain incredibly sensitive to both small and big impacts—without "packing up" under rapid, successive hits or bottoming out under big hits.

**BENEFIT:** The better the contact with the ground, the more control you have. And the more sensitive your suspension is, the better your acceleration, braking and cornering traction.

### 2. FOUR, TWO, ONE

**FEATURE:** Maestro utilizes four strategically positioned pivot points (the four red dots) and two linkages that all work to create a single floating pivot point (the red circle).

**BENEFIT:** This single floating pivot point improves pedaling efficiency by counteracting pedaling forces that would otherwise create suspension compression (squatting) or pedal kickback (bobbing). Both seriously hinder performance by sapping energy from you and your bike.

### 3. LIGHT AND STRONG

**FEATURE:** Select Maestro-equipped frames feature lightweight designs (such as the co-pivot shock linkage design shown below) to shed hundreds of grams of unnecessary weight without sacrificing stiffness or strength.

**BENEFIT:** Lighter is faster, up or down the trail.

### TRUNNION MOUNT

Found on the 2017 Anthem and Trance, off-road bikes, this new shock mount design further improves the performance of Maestro Suspension. Working with our key suspension suppliers, we created the new mount to produce the following three core benefits for riders:

#### 4. FEATURE: Lower leverage ratio

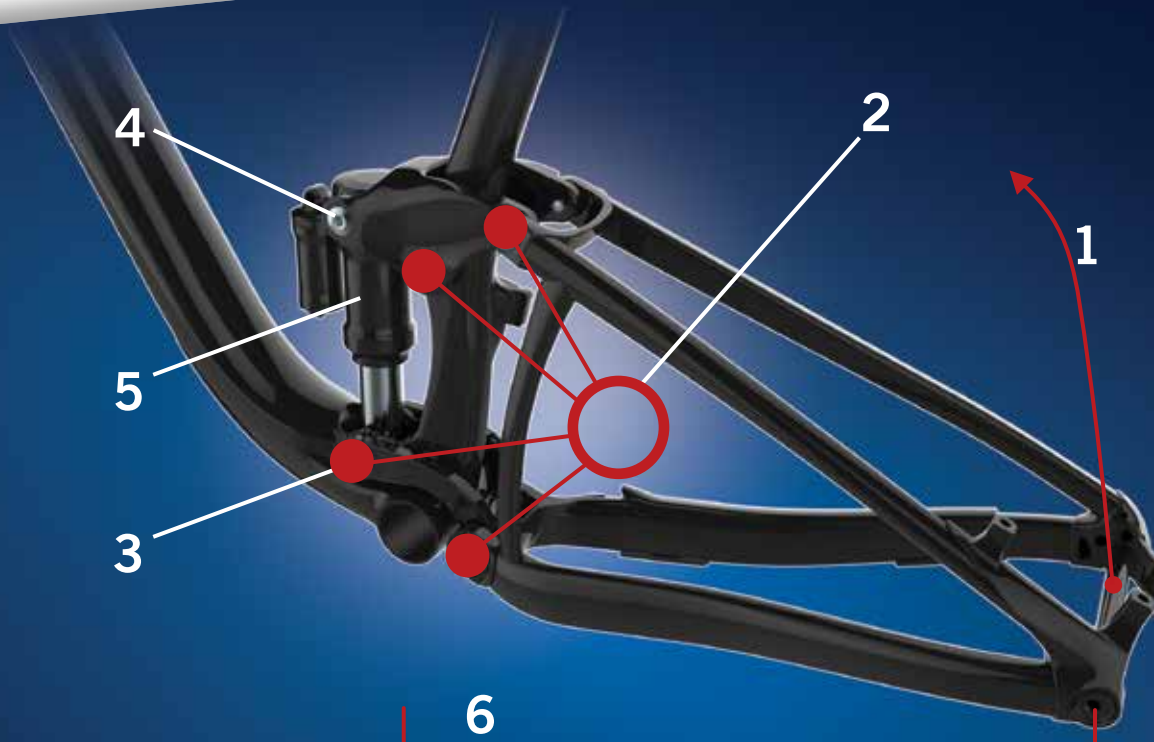
**BENEFIT:** Improves both pedaling and braking efficiency of Maestro Suspension.

#### 5. FEATURE: Centralized suspension mass

**BENEFIT:** Lower center of gravity improves bike's overall handling.

#### 6. FEATURE: Shorter rear end (chainstays)

**BENEFIT:** Shorter chainstays improve climbing capabilities and overall agility.





# ADVANCED FORGED COMPOSITE TECHNOLOGY

This all-new high-pressure molding process is used to produce complex-shaped components. Developed and perfected at Giant's state-of-the-art composite manufacturing facility, it allows us to craft components that are lighter and more durable than aluminum or standard composite parts. The key to Advanced Forged Composite Technology is multi-directional carbon construction and an innovative new process that uses extreme pressure-molding.



## PROCESS

1. Raw carbon thread is woven at Giant's composite factory to create a carbon matrix.
2. This carbon matrix is combined with Giant proprietary custom-blended resin to create a UDPP (Uni-Directional Pre Preg) sheet, which optimizes strength in one direction.
3. This UDPP sheet is then chopped at various angles and lengths to create a new multi directional isotropic sheet, which maximizes strength in every direction.
4. This isotropic sheet is laid up in three-dimensional molds.
5. The molds are closed and the composite forms are exposed to high heat and extreme pressure.
6. The molds are opened to reveal the Advanced Forged Composite Technology component.

## BENEFITS

Advanced Forged composite technology allows Giant to produce frame components and other small parts with the following three benefits:

1. Up to half the weight of aluminum.
2. Increased stiffness compared to aluminum.
3. Increased strength compared to aluminum.





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