



2013

TR450 FRAME MANUAL

Transition

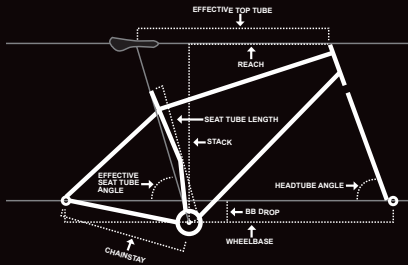
Congratulations on the purchase of your Transition Bike frame. This manual will give you helpful information on how to develop a long and lasting relationship with your bike. Read every word of this manual because we may quiz you on it later.

Frame Specifications

REAR TRAVEL:	210mm (8.2")
REAR SHOCK:	241.3mm (9.5" x 3") (22.2mm x 8mm eyelets)
FRAME MATERIAL:	6061 Aluminium
SIZES:	Small, Medium, Large
COLORS:	Cyan/Black, Yellow/Black, White/Black
FRAME WEIGHT:	11.3 lbs / 5.12 kg (w/ shock & axle)
WARRANTY:	2 year defect warranty Lifetime crash replacement

Build Specifications

SEATPOST/CLAMP:	31.6mm Seatpost/34.9mm Clamp
HEADTUBE:	44mm/56mm Zero Stack
BOTTOM BRACKET:	83mm English Threaded
REAR DROPOUT:	150mm x 12mm
HANGER PART NO:	93.6604
FRONT DERAILLEUR:	N/A
CHAINGUIDE:	ISCG 05 - 0mm Offset
REAR BRAKE:	160mm IS



Geometry (574.1mm Axle-to-Crown & Headset)

	SMALL	MEDIUM	LARGE
Reach	369.7	395.1	420.5
Stack	582.6	580.7	580.7
TopTube (Effective)	576.6	602.0	627.4
SeatTube (center-to-top)	420.0	420.0	420.0
Head Tube Angle	63.25°	63.25°	63.25°
Seat Tube Angle*	71.9°	71.9°	71.9°
ChainStay Length	438.2	438.2	438.2
BB Height	351.9	351.9	351.9
BB Drop	-11.9	-11.9	-11.9
Wheelbase	1157	1183	1208
Head Tube Length	113	113	113

(Length Measurements are in Millimeters and middle adjustment settings)

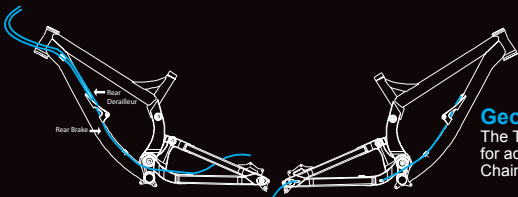
* Measured at these saddle heights: (625mm Small, 700mm Medium, 775mm Large)

Shock/Suspension Setup

Your frame comes equipped with a custom tuned rear shock designed to work in conjunction with the frame's leverage curve. Adjustments like rebound, compression and sag are all personal preference settings that should be adjusted to your personal riding style and preferences. Consult your shock manual for information about how to adjust your rear shock.

Cable Routing

Every Transition Bike frame has specific cable routing designed for optimal performance and safety of the rider.



Maintenance

It is crucial to the longevity of your Transition frame that you properly maintain and inspect it. We recommend that all service be done by a qualified Transition Bikes dealer.

Before you begin any ride it is very important to inspect your entire frame for any cracks, loose pivots or bolts, and properly functioning bearings. In addition to inspecting your frame, checking your entire bike to make sure it is working properly must happen before every ride. This includes but is not limited to checking tire pressure, ensuring the wheels are secure to the frame and fork, all components and brake bolts are tight and pedals are secure. Also, a quick check of your brake pads and brakes to insure they are working properly and ready to ride. If you are unsure of what you need to check on your bike to make sure it is safe, please bring your bike to a bicycle shop to have them inspect and maintain it before you begin a ride.



Geo Adjustment

The TR450 comes with 2 sets of 2 alloy chips which allows for adjustment of Headangle and BB height as well as Chainstay and Wheelbase adjustment via the dropout.

1. **Upper chip position** = 63 degree Headtube Angle
2. **Middle chip position** = 63.5 degree Headtube Angle
3. **Lower chip position** = 64 degree Headtube Angle

Bearings

Take apart all the linkage and rocker arms to inspect the bearings to see if they are rotating smoothly. If they do not feel smooth or are seized up, you should replace the affected bearings. Always replace bearings in pairs.

Rocker Arm and Dog Bone Pivot Bearings Qty: 6 - 6902
Bottom Bracket Pivot Bearings Qty: 2 - 6004

Torque Settings

Torque ratings for the hardware used on this product are listed below. Damage caused by over/under torquing will not be covered by the warranty on this product.

• All Pivot Bolts	150 in/lbs (16.9 N·m)
• Sleeved 2 piece Shock Mounting Bolt	125 in/lbs (14 N·m)
• Main Rocker Arm Shock Mounting Bolt	200 in/lbs (22.5 N·m)
• Rear Axle	100 in/lbs (11.3 N·m)
• Dropout Bolt	75 in/lbs (8.4 N·m)

Warranty

Your Transition Frame is covered under a 2 year warranty period against any manufacturing defects or flaws. This does not cover normal wear and tear of the frame, misuse or crashing. This warranty only applies to the original owner of the frame 2 years from the date of purchase.

Transition Bikes also offers a lifetime crash replacement of the frame for the original owner. In the event your frame is broken due to a crash or rider negligence, Transition Bikes will offer a replacement frame at a discounted price.

Register Your Frame

To be eligible for your warranty or crash replacement you must register your frame with Transition Bikes and maintain a proof of purchase from the location you purchased the frame. Transition Bikes and your bike shop do not keep records of your serial number unless you register it with us on our site. Visit: www.transitionbikes.com/Register.cfm to register your frame.

Warning!

Riding mountain bikes is an extremely dangerous activity. The rider of any Transition Bikes frame assumes all the risk when they ride their Transition Bike. Transition Bikes assumes no liability in the event of a crash or broken frame. It is up to the rider and bike shop to properly maintain and inspect the frame for any flaws or cracks. It is the riders responsibility to ride within their limits and not push the frame beyond it's intended use.

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