

SPECIALIZED®



 **TRANSITION**
Seat Post Fit Kit Manual

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INTRODUCTION

The TRANSITION SEAT POST FIT KIT is designed to work specifically with the carbon fiber Specialized Transition bicycles. Due to the extensive range of seat tube angles (saddle setback) that can be achieved and the limited range of vertical seat post adjustment, getting the seat post cut to the right length the first time is crucial. The supplied tools and the following guide are designed to help simplify the sizing process.

The ultimate goal is to be able to quickly and easily place the customer in the correct position, then test the position, all before cutting the seat post. The position of the cut is designed to offer a few mm of +/- vertical adjustment for future fine-tuning.

To simplify the steps, the guide has been split up into two sections:

- **Option 1:** for those that prefer the method developed by triathletes (Vertical Height / Horizontal Setback). This method is more precise and allows for a greater range of positions, but it requires some trial and error, time and dedication to find the desired position.
- **Option 2:** for those that want to mimick their road bike position (BB-to-Saddle Height Method). This method is quick and easy, but less precise and with limited angle range.

This manual is designed to be used in conjunction with the Bicycle Owner's Manual and other owner's manuals and guides supplied by the manufacturer. If you did not receive any of these manuals, download them from the Internet, or contact Specialized by telephone. There may be more current manuals and technical information available. For the most current information, regularly check the Specialized web site or consult your Specialized dealer.

Please read the following Warnings. Because failure to follow any Warning may result in catastrophic failure of the frame or components, resulting in serious personal injury or death, this phrase may not be repeated in connection with each warning.

To ensure the best assembly possible and to prevent any damage to the components or frame, follow all torque specifications.



WARNING! Failure to follow the torque specifications in this installation guide will void the warranty, but most importantly may result in damage to the frame which may not be visible. If the frame is damaged, this can result in loss of structural integrity, which may result in serious personal injury or death.



WARNING! When placing the frame and/or bicycle in a repair stand, clamp the stand using a frame clamp specifically designed for thin-wall carbon tubes, for example the Park Tools 100-X4 Extreme Range Clamp. Clamping the frame with a standard clamp can cause damage to the frame that may or may not be visible.



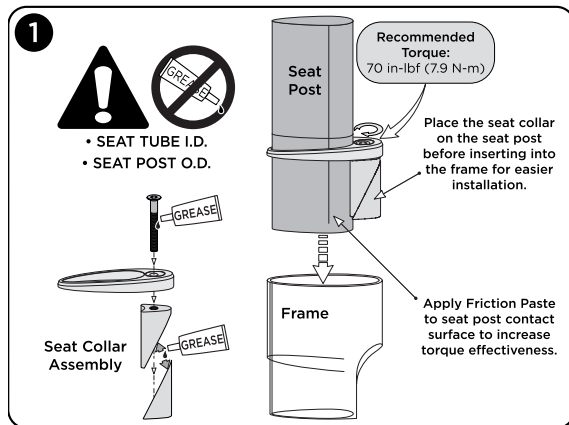
WARNING! The Seat Post Fit Kit Extensions and Saddle Mounts have specific maximum extension markings. The Extension lengths are specifically designed to cover the entire range of seat post length options. Ensure that the Extension's minimum insertion limit is below the seat collar before setting up the rest of the Fit Kit post. Adjust the Extension and the Saddle Mount heights in tandem so that neither of the parts exceed their minimum insertion limits.

If the desired saddle height forces one or both parts to exceed the minimum insertion limits, choose the next longest Extension. If the Extension and the Saddle Mount are fully inserted and the setup is still too tall, choose the next shortest Extension. Exceeding the minimum insertion limits may result in failure of the Fit Kit seat post assembly.



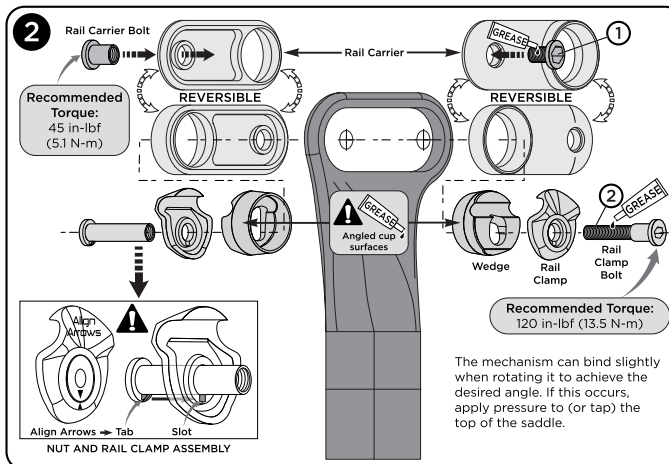
WARNING! Do not ride the Transition with the Fit Kit Post installed for extended periods of time. It is designed specifically to fine-tune and determine the proper saddle height.

SADDLE AND SEAT POST INSTALLATION



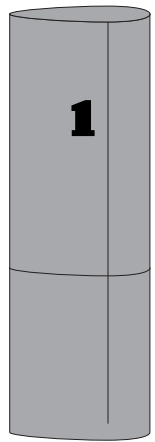
WARNING! Do not grease the seat tube surface that contacts the seat post. Grease reduces the friction that is critical to proper seat post grip. Remove any grease from the surfaces of the seat tube and seat post.

TECH TIP: Specialized recommends the application of carbon assembly compound between the seat tube and post to increase friction. Recommended compounds can be found at www.tacx.com. See your authorized Specialized retailer if you have any questions.

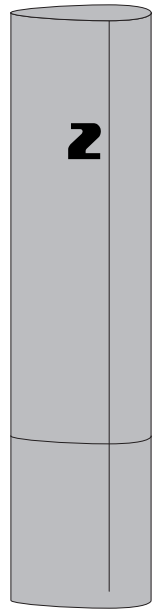


- Install the seat post into the seat tube (fig.1).
- Install the rail clamp carrier in the chosen direction (reversible) and tighten the alloy rail carrier bolt (bolt #1, fig.2).
- Grease the contact surfaces and bolt threads of the rail clamp Mechanism, then install it in the rail clamp carrier.
- Install the saddle in the rail clamp mechanism.
- Adjust the saddle to the desired height, angle and fore-aft position.
- Torque the rail clamp bolt to the recommended setting. To avoid damage, the nut tab must be properly lined up with the rail clamp slot (bolt #2, fig.2).
- Torque the seat collar bolt to the recommended setting (fig.1).

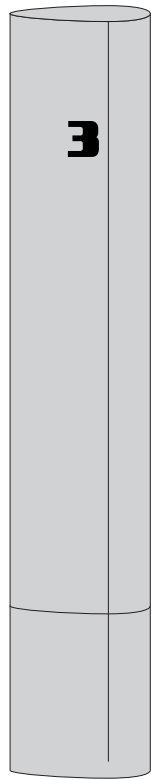
TRANSITION SEAT POST FIT KIT PARTS



Extension #1



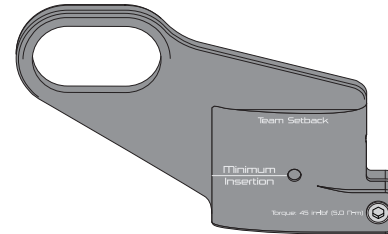
Extension #2



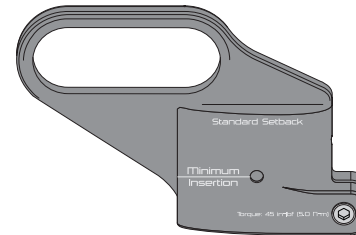
Extension #3



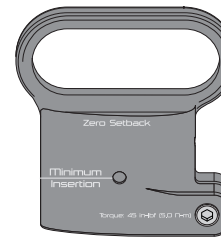
Extension #4



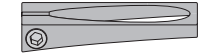
Team Setback Saddle Mount



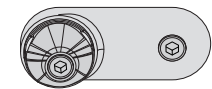
Standard Setback Saddle Mount



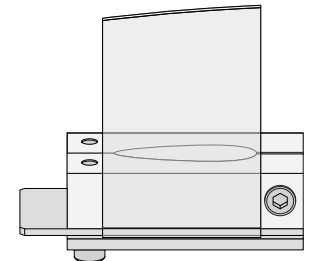
Zero Setback Saddle Mount



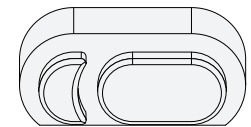
Set Clamp



Rail Clamp System

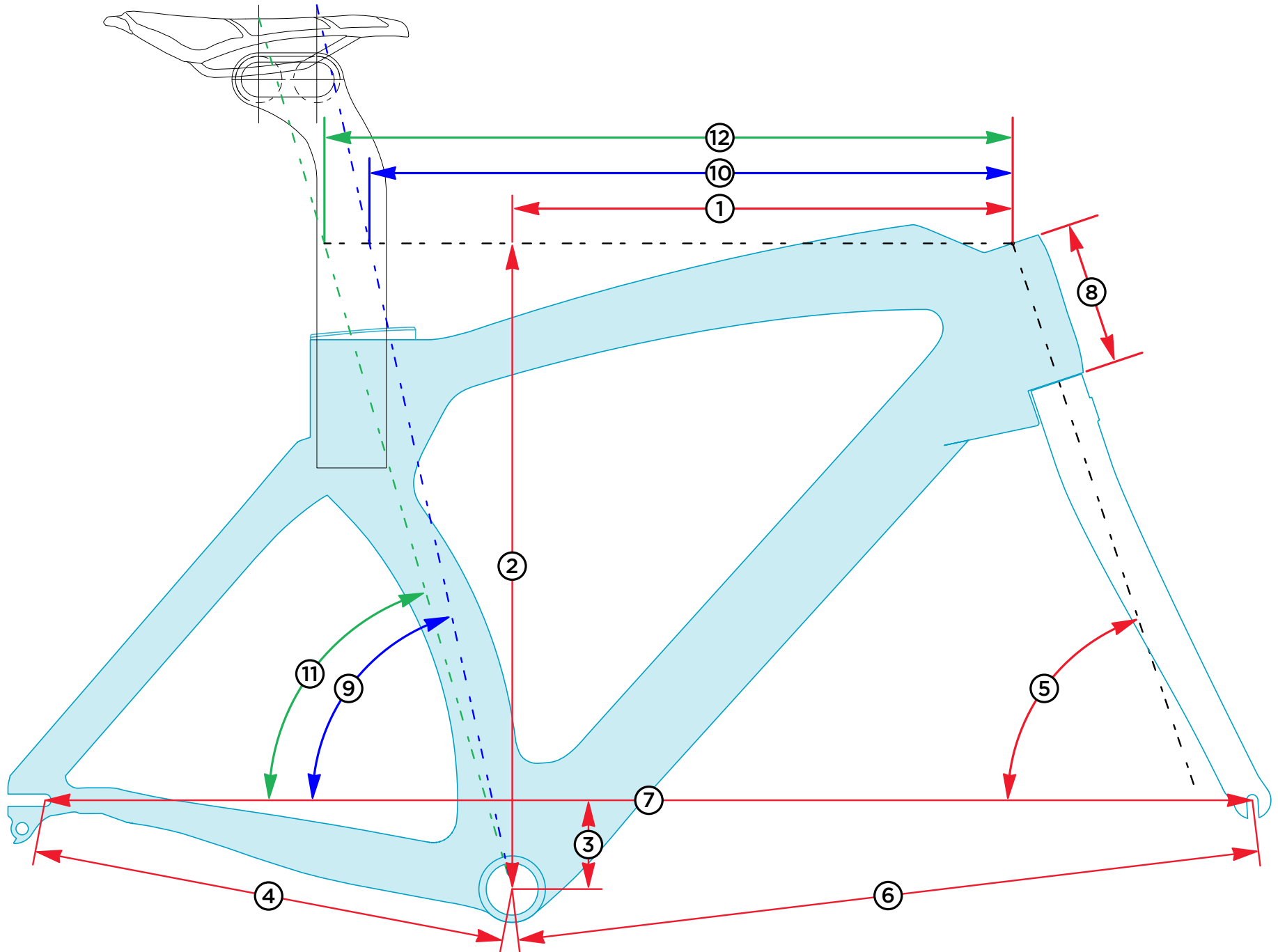


Cut Guide



Alignment Block

TRANSITION FRAME GEOMETRY



TRANSITION FRAME GEOMETRY

COMMON GEOMETRY

SIZE	S (51)	M (54)	L (56)	XL (59)
1 Reach (mm)	380	395	405	425
2 Stack (mm)	505	516	526	527
3 Bottom Bracket Drop (mm)	72	72	72	72
4 Chainstay (mm)	395	395	395	395
5 Head Tube Angle (°)	71.5	72	72	72.5
6 Front-Center (mm)	575	589	602	621
7 Wheelbase (mm)	961	975	988	1007
8 Head Tube Length (mm)	100	110	120	120

ZERO LAYBACK POST

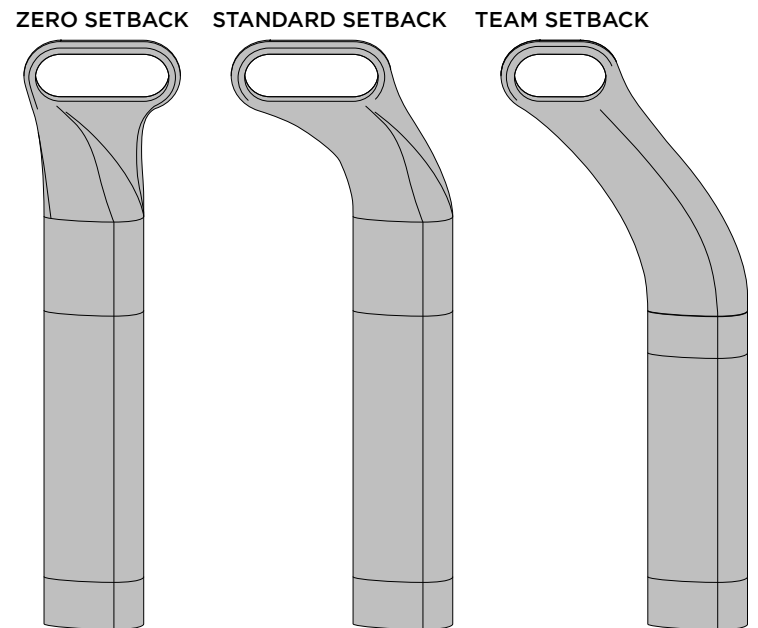
SIZE	S (51)	M (54)	L (56)	XL (59)
9 Eff. Seat Tube Angle (Forward Setting, °)	81.5	82	82.5	83
10 Eff. Top Tube (Forward Setting, mm)	452	463	474	491
11 Eff. Seat Tube Angle (Rearward Setting, °)	77.5	78	78.5	79
12 Eff. Top Tube (Rearward Setting, mm)	488	497	508	524

STANDARD LAYBACK POST

SIZE	S (51)	M (54)	L (56)	XL (59)
9 Eff. Seat Tube Angle (Forward Setting, °)	77	77.5	78	78.5
10 Eff. Top Tube (Forward Setting, mm)	495	505	515	531
11 Eff. Seat Tube Angle (Rearward Setting, °)	73	73.5	74	74.5
12 Eff. Top Tube (Rearward Setting, mm)	532	541	552	565

TEAM LAYBACK POST

SIZE	S (51)	M (54)	L (56)	XL (59)
9 Eff. Seat Tube Angle (Forward Setting, °)	74	74.5	75	75.5
10 Eff. Top Tube (Forward Setting, mm)	525	533	543	558
11 Eff. Seat Tube Angle (Rearward Setting, °)	72	72.5	73	73.5
12 Eff. Top Tube (Rearward Setting, mm)	544	552	562	576



COMMON GEOMETRY: Measurements that are common to all Transition frames regardless of the chosen seat post.

LAYBACK POST (ZERO, STANDARD, TEAM): Effective Seat Tube Angle and Top Tube Length for each frame size, depending on the chosen seat post and rail clamp system position.

NOTE: Moving the saddle forward or rearward from center will modify the effective seat tube angle and top tube length.

CHART 1

TT FIT KIT REFERENCE CHART: VERTICAL HEIGHT / HORIZONTAL SETBACK METHOD

- * To use this method, you need to know the Vertical Height and Horizontal Setback measurements and the desired frame size. This system works best with the FIST method of Stack and Reach.
- ** The Vertical/Horizontal method is the more precise of the two methods, allowing for a more accurate duplication of rider position over the bottom bracket and a greater range of positioning.
- *** There are 4 numbered post extensions and 3 saddle mounts, color coded depending on the position of the rail clamp assembly.

Vertical Height:	Vertical Distance from Center of BB to Top of Saddle.
Setback:	Horizontal Distance from Center of BB to Tip of Saddle. (Saddle position is based on 150mm length from tip of saddle to center of rails).
A:	Post Length Number.
B:	Approximate Distance from Top of Saddle to Highest Point on Seat Post Collar.

VERTICAL HEIGHT	TT FRAME SIZE								SETBACK - Horizontal Distance: Tip of Saddle to Center of BB															
	51		54		56		59		Aft of Bottom Bracket							Forward of Bottom Bracket								
	A	B	A	B	A	B	A	B	90	80	70	60	50	40	30	20	10	0	-10	-20	-30	-40	-60	-70
590	1	135	1	135	1	135																		
600	1	145	1	145	1	145																		
610	1	155	1	155	1	155																		
620	1	165	1	165	1	165	1	135																
630	1	175	1	175	1	175	1	145																
640	1	185	1	185	1	185	1	155																
650	1	195	1	195	1	195	1	165																
660	2	205	2	205	2	205	1	175																
670	2	215	2	215	2	215	1	185																
680	2	225	2	225	2	225	1	195																
690	2	235	2	235	2	235	2	205																
700	2	245	2	245	2	245	2	215																
710	2	255	2	255	2	255	2	225																
720	2	265	2	265	2	265	2	235																
730	3	275	3	275	3	275	2	245																
740	3	285	3	285	3	285	2	255																
750	3	295	3	295	3	295	2	265																
760	3	305	3	305	3	305	3	275																
770	3	315	3	315	3	315	3	285																
780	3	325	3	325	3	325	3	295																
790	3	335	3	335	3	335	3	305																
800	4	345	4	345	4	345	3	315																
810	4	355	4	355	4	355	3	325																
820	4	365	4	365	4	365	3	335																
830	4	375	4	375	4	375	4	345																
840	4	385	4	385	4	385	4	355																
850	4	395	4	395	4	395	4	365																
860	4	405	4	405	4	405	4	375																
870								385																
880								395																
890								405																

POST EXTENSION #S

150mm
SETBACK
VERTICAL HEIGHT

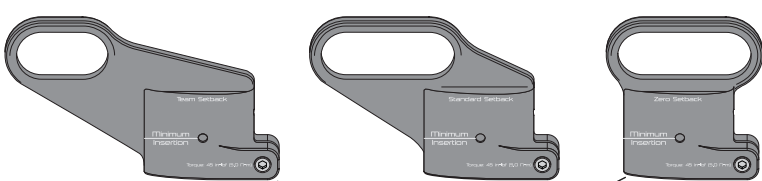
Measurement to top of Saddle
B
Measurement from highest point of Seatpost collar

SADDLE MOUNT/COLOR ORIENTATION

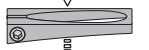
INSTALLING THE TT FIT KIT - VERTICAL HEIGHT / HORIZONTAL SETBACK METHOD

1

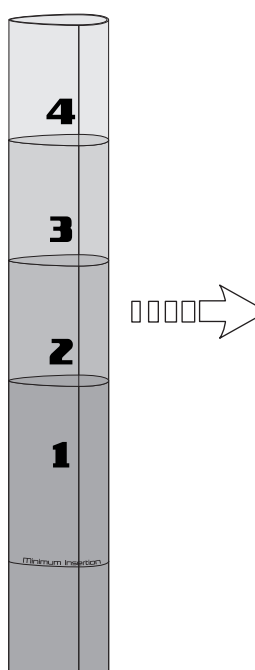
Choose Saddle Mount



Set Clamp

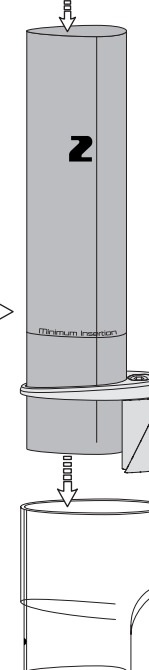


Choose Post Extension



Seat Collar

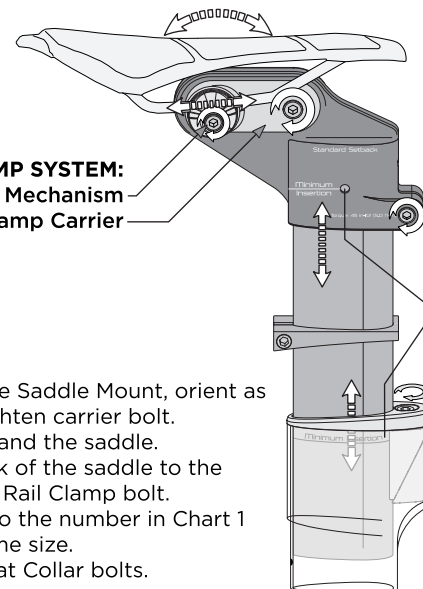
Seat Tube



- Find the customer's vertical height measurement on the left column of Chart 1.
- Note the corresponding number in column "A" for the desired frame size.
- Choose the Post Extension that matches the number from column "A".
- Refer to the "Setback" portion of Chart 1. Find the customer's desired setback. The corresponding color below the setback value indicates which saddle mount orientation should be used. There can be more than one color option.
- Assemble the Post Extension, Saddle Mount, Seat Collar and Set Clamp in the Seat Tube (place the seat collar on the extension before installing in the frame).

2

RAIL CLAMP SYSTEM:
Rail Clamp Mechanism
Rail Clamp Carrier

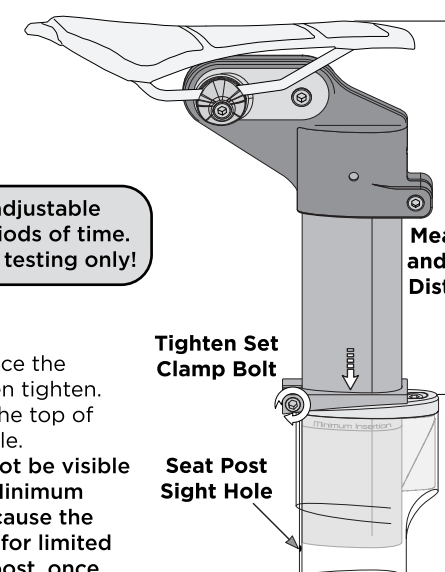


Do not exceed Minimum Insertion Limits

- Install the Rail Clamp Carrier in the Saddle Mount, orient as shown by the color code, then tighten carrier bolt.
- Install the Rail Clamp Mechanism and the saddle.
- Adjust the tilt and fore-aft setback of the saddle to the desired position, then tighten the Rail Clamp bolt.
- Set the Saddle height according to the number in Chart 1 column "B" under the chosen frame size.
- Tighten the Saddle Mount and Seat Collar bolts.
- Test ride the position. Adjust as necessary.

3

WARNING: Do not ride the adjustable post setup for extended periods of time. The adjustable post is for fit testing only!



Tighten Set Clamp Bolt

Seat Post Sight Hole

Measure and note Distance

- With the rider's position achieved, place the Set Clamp against the Seat Collar, then tighten.
- Measure and note the distance from the top of the Seat Collar to the top of the Saddle.

NOTE: The alloy adjustable post may not be visible through the sight hole, even with the Minimum Insertion line below the seat collar, because the alloy post extension is only to be used for limited test riding (see warning). The carbon post, once cut, will be visible through the sight hole.

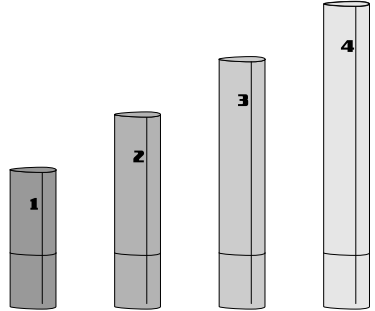
CHART 2

TT FIT KIT REFERENCE CHART: STANDARD BB-TO-SADDLE HEIGHT METHOD

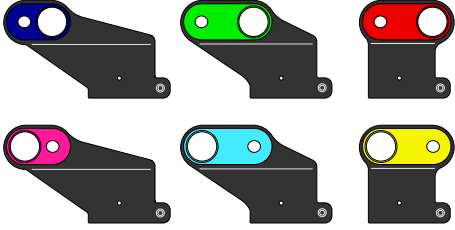
- * To use this method, you need to know the BB-to-Saddle height measurement and the desired frame size.
- ** The BB-to-Saddle height method is intended to approximate the saddle position of a standard road bike.
- *** There are 4 numbered post extensions and 3 saddle mounts. The saddle mount positions are color coded depending on the position of the rail clamp assembly.

BB-Saddle:	Distance from Center of BB to Top of Saddle, Following the trajectory of the Seat Tube.
C:	Post Length Number & Saddle Mount Position Color.
D:	Approximate Distance from Top of Saddle to Highest Point on Seat Post Collar.

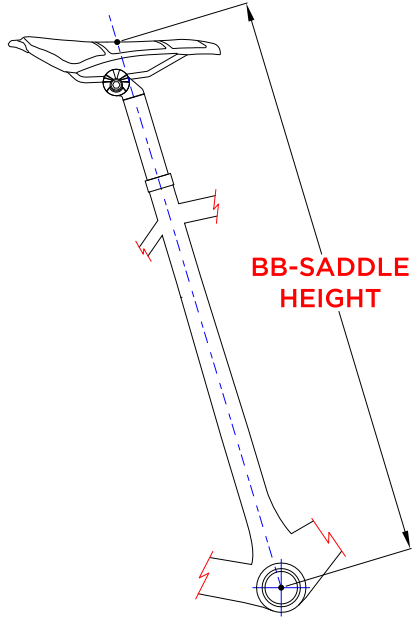
BB-SADDLE	TT FRAME SIZE							
	51		54		56		59	
	C	D	C	D	C	D	C	D
620	1	141	1	139	1	139		
630	1	151	1	149	1	148		
640	1	160	1	159	1	158		
650	1	170	1	168	1	167	1	137
660	1	179	1	178	1	177	1	146
670	1	189	1	187	1	187	1	156
680	1	199	1	197	1	196	1	165
690	1	208	1	207	1	206	1	175
700	2	218	2	216	2	215	1	184
710	2	227	2	226	2	225	1	194
720	2	237	2	235	2	234	1	204
730	2	247	2	245	2	244	2	213
740	2	256	2	255	2	254	2	223
750	2	266	2	264	2	263	2	232
760	2	276	2	274	2	273	2	242
770	3	285	3	283	3	282	2	251
780	3	295	3	293	3	292	2	261
790	3	304	3	302	3	302	2	270
800	3	314	3	312	3	311	3	280
810	3	324	3	322	3	321	3	290
820	3	333	3	331	3	330	3	299
830	4	343	4	341	4	340	3	309
840	4	352	4	350	4	349	3	318
850	4	362	4	360	4	359	3	328
860	4	372	4	370	4	369	3	337
870	4	381	4	379	4	378	3	347
880	4	391	4	389	4	388	4	357
890	4	401	4	398	4	397	4	366
900	4	410	4	408	4	407	4	376
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920							4	395
930							4	404
940							4	414
950							4	423



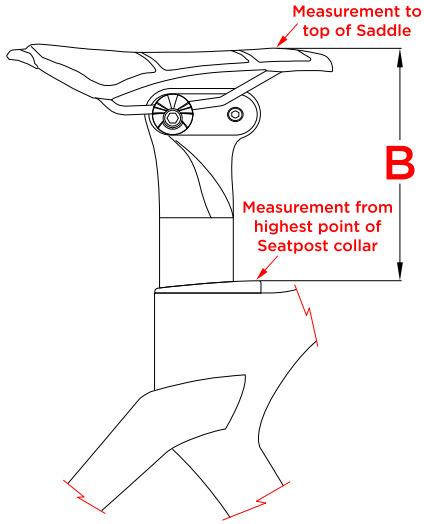
POST EXTENSION #S



SADDLE MOUNT/COLOR ORIENTATION



BB-SADDLE HEIGHT



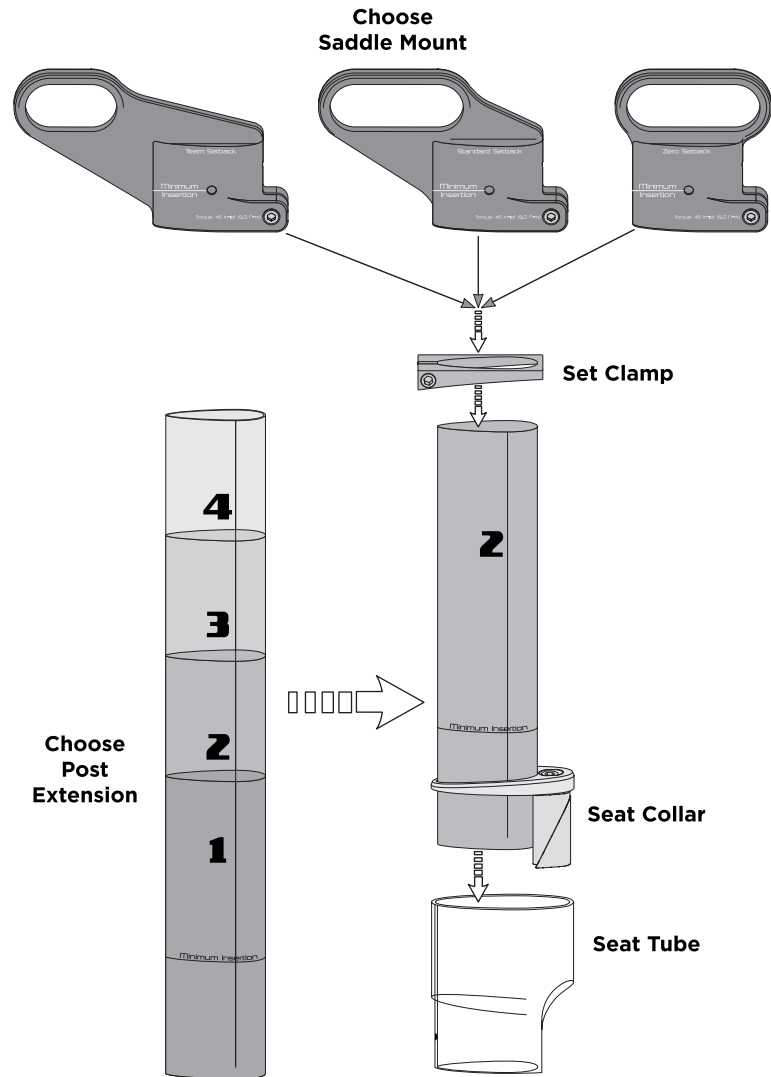
Measurement to top of Saddle

Measurement from highest point of Seatpost collar

B

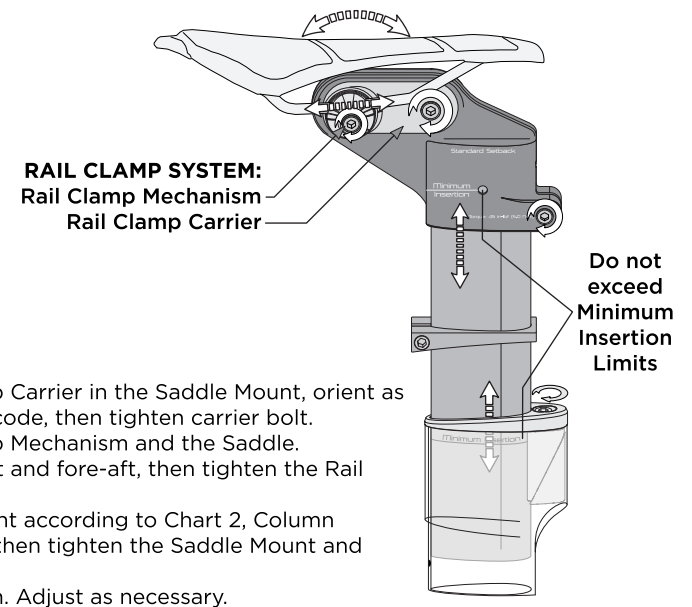
INSTALLING THE TT FIT KIT - BB-TO-SADDLE HEIGHT METHOD

1



- Find customer's BB-to-Saddle height measurement on left column of Chart 2.
- Note the corresponding **color-coded** number in column "C" for the desired frame size.
- Choose the Post Extension that matches the color-coded number (Chart 2).
- Choose the Saddle Mount that matches the chosen color code (Chart 2).
- Assemble the Post Extension, Saddle Mount, Seat Collar and Set Clamp in the Seat Tube (place the seat collar on the extension before installing in the frame).

2

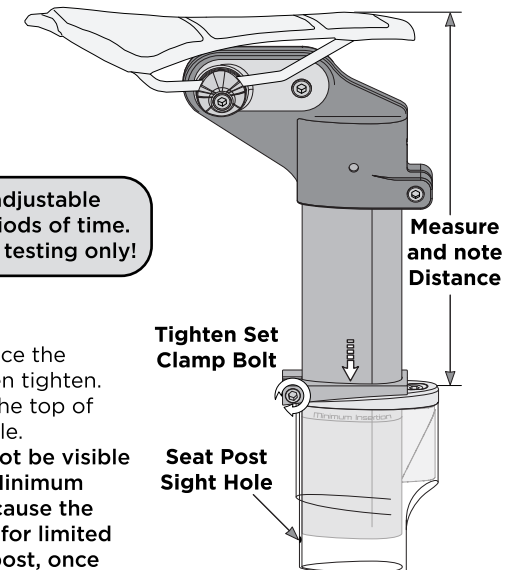


- Install the Rail Clamp Carrier in the Saddle Mount, orient as shown by the color code, then tighten carrier bolt.
- Install the Rail Clamp Mechanism and the Saddle.
- Adjust the Saddle tilt and fore-aft, then tighten the Rail Clamp bolt.
- Adjust the post height according to Chart 2, Column and Illustration "D", then tighten the Saddle Mount and Seat Collar bolts.
- Test ride the position. Adjust as necessary.

3

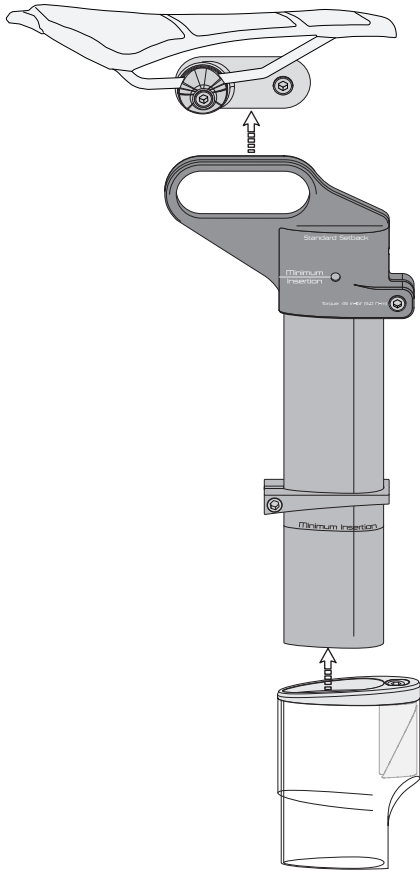
WARNING: Do not ride the adjustable post setup for extended periods of time. The adjustable post is for fit testing only!

- With the rider's position achieved, place the Set Clamp against the Seat Collar, then tighten.
 - Measure and note the distance from the top of the Seat Collar to the top of the Saddle.
- NOTE:** The alloy adjustable post may not be visible through the sight hole, even with the Minimum Insertion line below the seat collar, because the alloy post extension is only to be used for limited test riding (see warning). The carbon post, once cut, will be visible through the sight hole.



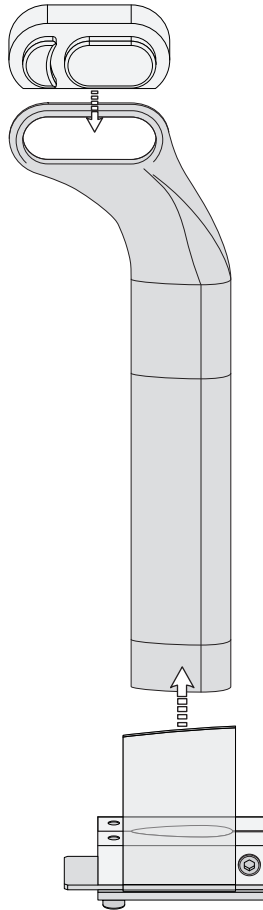
REMOVING THE TT FIT KIT POST

4



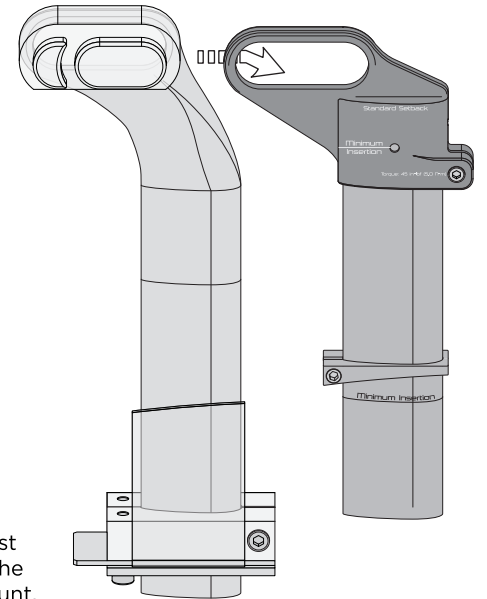
- Remove the saddle and rail clamp assembly.
NOTE: Keep Post Extension, Saddle Mount and Set Clamp assembled after test ride for upcoming cutting steps!
- Remove the Extension/Saddle Mount/Set Clamp assembly from the frame.

5



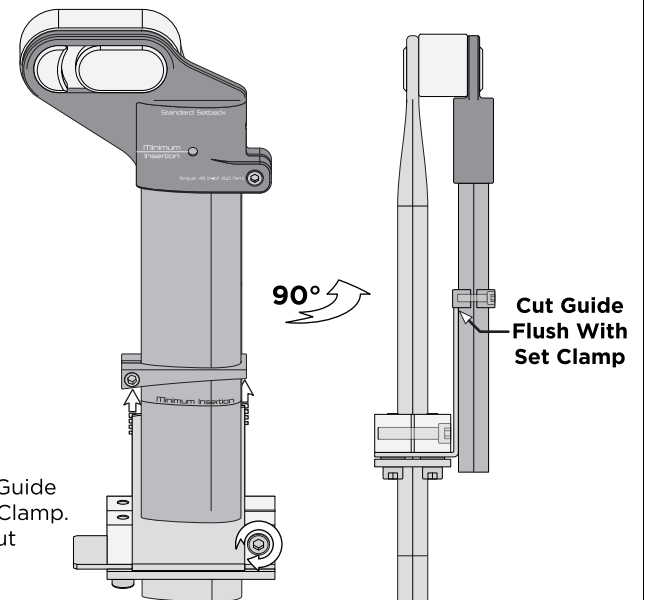
- Install the Post Alignment Block on the drive side of the carbon seat post.
- Install the Cut Guide on the carbon seat post.

6



- Install the carbon seat post on the non-drive side of the Extension and Saddle Mount.

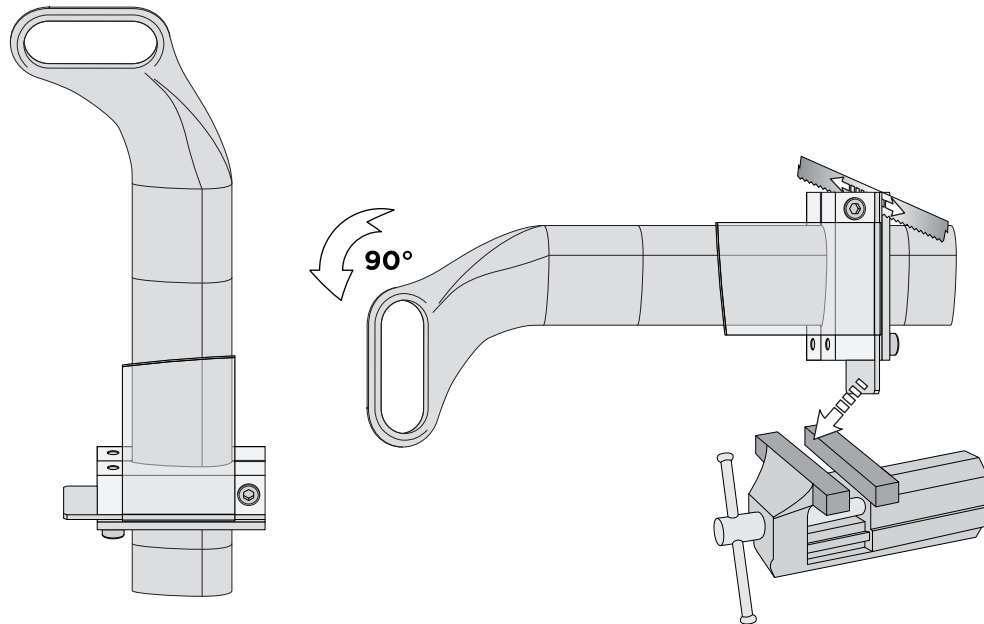
7



- Slide the Cut Guide up to the Set Clamp.
- Tighten the Cut Guide bolt.

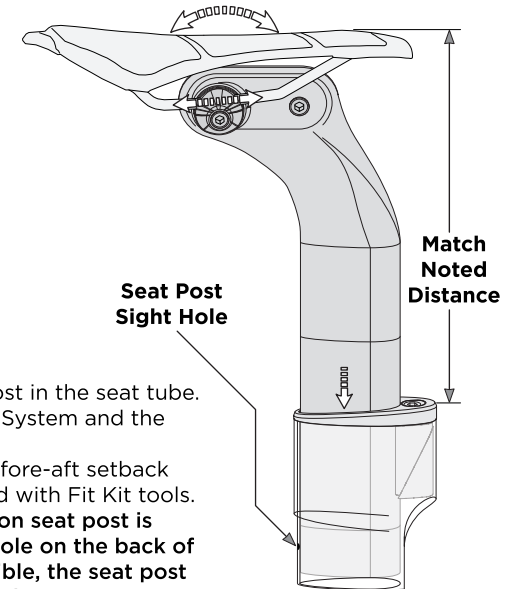
CUTTING AND INSTALLING THE CARBON TT POST

8



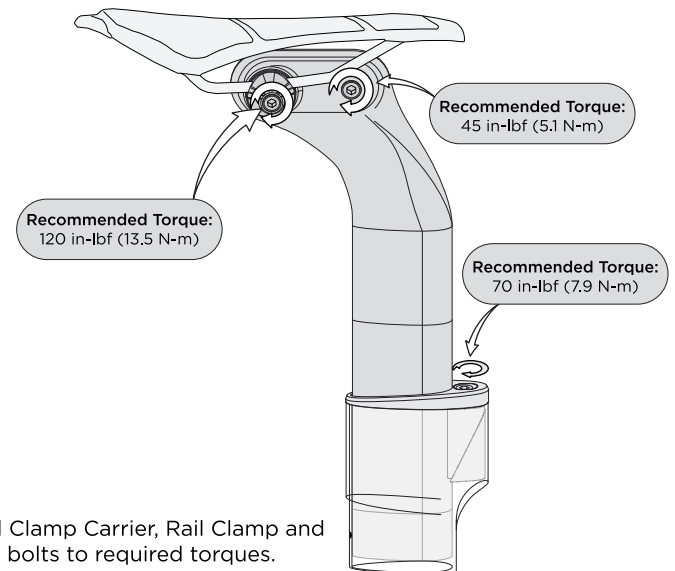
- Remove the carbon seat post and Cut Guide from the Extension/Saddle Mount assembly.
 - Rotate the carbon post and Cut guide and clamp the Cut Guide in a table vise.
 - Specialized recommends the use of a carbon-specific blade. A Fine tooth blade (36 tooth minimum) is also acceptable.
- NOTE:** Apply light pressure to cut the carbon, especially at the end to prevent splinters.
- Clean the cut surface with a light pass of fine grit sandpaper.

9



- Install the carbon seat post in the seat tube.
 - Re-install the Rail Clamp System and the saddle on the seat post.
 - Re-adjust the saddle tilt, fore-aft setback and height as determined with Fit Kit tools.
- NOTE:** Make sure the carbon seat post is visible through the sight hole on the back of the seat tube. If it isn't visible, the seat post was not set up correctly to be cut.

10



- Torque Rail Clamp Carrier, Rail Clamp and Seat Collar bolts to required torques.
- Test the position and adjust as necessary.



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15130 Concord Circle
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