

TORQUE MATRIX

2014 FRAME & COMPONENTS



DESCRIPTION	DETAILS	TOOL	in-lbf	Nm	COMMENTS
SEATPOST					
CG-R	Single bolt	5mm Allen	120	13.6	Wedge style clamp
Pavé	Single bolt	5mm Allen	120	13.6	Wedge style clamp
S-Works/Pro, SBC 2-bolt	Two bolt	5mm	80	9.0	
Command Post	Single bolt	5mm Allen	120	13.6	Blacklite
Command Post	Alien Head	5mm Allen	110	12.4	Blacklite, IR (120 in-lbf ok)
CRANK					
S-Works carbon crank	Spindle center bolt	T45	300	33.9	2-piece spindle
S-Works carbon crank	Spider lockring	Lockring tool	250	28.2	
S-Works MTN crank	Non-drive-side bolt	8mm Allen	400	45.2	1-piece spindle
Chainring bolt	Alloy		87	9.8	
Bottom bracket	Threaded BSA		442	49.9	
STEM					
Road/MTN stem	At handlebar (4-bolt)	4mm Allen	45	5.1	40-45 range is ok
	At steerer tube	4mm Allen	45	5.1	40-45 range is ok
DH direct mount stem	At handlebar (4-bolt)	4mm Allen	45	5.1	40-45 range is ok
	At steerer tube	4mm Allen	80	9.0	
Quill stem	At handlebar	4mm Allen	160	18.1	
	At steerer tube (4-bolt)	4mm Allen	80	9.0	
Shiv TT stem	At handlebar (4-bolt)	4mm Allen	35	4.0	
	At steerer tube	4mm Allen	45	5.1	40-45 range is ok
Shiv stem	At handlebar (4-bolt)	4mm Allen	80	9.0	
	At steerer tube	4mm Allen	45	5.1	40-45 range is ok
HANDLEBAR					
Road handlebar	Brake/shift lever max		70	7.9	Max torque applied by component
	Stem max (4-bolt)		45	5.1	Max torque applied by component
	Stem max (2-bolt)		80	9.0	Max torque applied by component
MTN handlebar	Shift lever max		40	4.5	Max torque applied by component
	Brake lever max		40	4.5	Max torque applied by component
	Stem max (4-bolt)		45	5.1	Max torque applied by component
	Stem max (2-bolt)		80	9.0	Max torque applied by component
Shiv TT handlebar riser bolts	Top and bottom bolts	4mm Allen	80	9.0	
Shiv TT armrests		T20	18	2.0	
Shiv handlebar riser bolts		4mm Allen	100	11.3	
Shiv extension clamps	At risers	5mm Allen	110	12.4	
Shiv arm pad mounts		4mm Allen	40	4.5	
Shiv extension clamps	At extensions	4mm Allen	40	4.5	

45	Correspond to the 45, 55, and 120 in-lbf. SBC Torque Wrenches
55	
120	

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Shiv arm pads		4mm Allen	40	4.5	
Shiv bottom bracket panel		4mm Allen	25	2.8	
Shiv Control Tower		4mm Allen	25	2.8	
BRAKE					
Shiv / Shiv TT dual pivot brakes	At fork, frame	5mm Allen	70	7.9	
	Brake pad	4mm Allen	43	4.9	
	Cable anchor	4mm Allen	55	6.2	
SEAT COLLAR					
Venge	Two bolt, aero post	4mm Allen	50	5.6	
Ruby	Wedge, round post	4mm Allen	55	6.2	
Shiv TT	Two bolt rear clamp, aero		45	5.1	
Shiv	Two bolt rear clamp, aero		45	5.1	
Round collar	27.2mm seatpost		55	6.2	
Round collar	30.9mm seatpost		45	5.1	
Transition	Wedge, aero post		70	7.9	
FRAME					
Post mount rear disc brake		5mm Allen	80	9.0	
Front derailleur		5mm Allen	44	5.0	
Rear derailleur		5mm Allen	70	7.9	
Rear derailleur hanger	Alloy bolt, MTN hanger		35	4.0	
	Demo		115	13.0	
Linear pull brakes (MTN)		5mm Allen	43	4.9	
Caliper brakes (Road)		5mm Allen	70	7.9	
Dual pivot brakes (Road)		5mm Allen	70	7.9	Shiv TT
Cable housing stop	Transition rear brake @ DT		35	4.0	
Stumpjumper SS dropouts		5mm Allen	90	10.2	
Water bottle bolts		4mm Allen	25	2.8	
SWAT box bolt		4mm Allen	35	4.0	
Bolt-on cable guides	Roubaix SL3/Venge	3mm Allen	10	1.1	
Bottom bracket cable guide	Carbon road frames		25	2.8	
Hood scoop @ HT cable guide	Camber/SJ HT		6	0.7	
Hood scoop @ BB cable guide	Camber/SJ HT		9.5	1.1	
Down tube MTN cable bat			30	3.4	
Fender mounting bolts			25	2.8	
P.Slope BB pivot bolt			60	6.8	
DMD Front derailleur bolts			40	4.5	
ECCBB			80	9.0	
Fox/SBC Brain tank mount			45	5.1	

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FORK					
Post mount front disc brake			80	9.0	
Caliper brakes (Road)			70	7.9	
Dual pivot brakes (Road)			70	7.9	
Steerer tube plug		6mm Allen	80	9.0	
Tricross/CruX brake hanger			70	7.9	
Fender mounting bolts			25	2.8	
WHEEL					
142x12mm rear axle			133	15.0	
Turbo S front axle			105	11.9	
Cassette body			261	29.5	
Freewheel			261	29.5	
Solid nutted axle			200	22.6	
MISCELLANEOUS					
Bar ends	P2		80	9.0	
	C2 carbon		50	5.6	
	Targa		80	9.0	
CNC Bar end plugs			30	3.4	
Turbo S headlight			26	2.9	
Turbo S Kickstand			89	10.1	