



INTENSE
CYCLES . USA

USER MANUAL | SPIDER 275 CARBON BOOST

WELCOME TO THE FAMILY

AT INTENSE. WE HAVE ONE GOAL - TO PROVIDE THE RIDE OF YOUR LIFE.

Our team of designers, engineers and product experts are focused on one thing every day: your experience on the bike. We build bikes that are as thrilling to look at as they are to ride, and we build them for the select few of you who understand the difference and refuse to settle for anything else.

From the early days of Intense, when founder Jeff Steber worked alone in his garage to today, where a crew of talented people work in a Temecula, CA factory, Intense has been a brand built on passion by forward thinkers who, even today, love nothing more than to throw a leg over a sweet bike and head out for a rip. We're so glad you've joined us.

Welcome to Intense, enjoy your experience.

THE SPIDER 275 CARBON BOOST

Carbon front and rear triangles are the mainstay of the Spider 275C trail bike along with the short chain stays and nimble geometry that help you whip the bike around on flowing single track. Ideal for light trail riding and racing, the optimized wheel path and efficient pedaling platform offer up an easy ride that won't let you down on the long haul.

REGISTRATION

WWW.INTENSECYCLES.COM/WARRANTY-CARD/



CONTACT CUSTOMER SERVICE

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FRAME FEATURES / SPEC

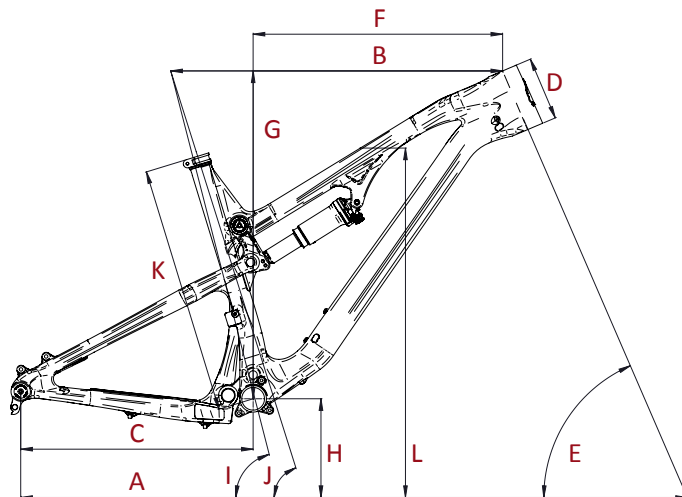
FRAME FEATURES //

- ADJUSTABLE TRAVEL: 4.5" TO 5" (115MM-130MM)
- 27.5" WHEEL SIZE
- INTEGRATED BOOST 148 X 12 DROPOUTS
- 5.96 LBS / 2.705 GRAMS = STANDARD FRAME W/ ALLOY LINK, NO SHOCK
- 4.48 LBS / 2.490 GRAMS = SL SUPER LIGHT FRAME W/ CARBON LINK, NO SHOCK
- ISCG 05 MOUNTS
- INTERNAL CABLE ROUTING
- INTERNAL SEAT TUBE CABLE ROUTING FOR DROPPER POSTS
- MONOCOQUE FRONT TRIANGLE
- H2O BOTTLE FITMENT
- FLK - GRD DOWNTUBE AND CHAINSTAY PROTECTION
- TAPERED HEAD TUBE
- DIRECT MOUNT FRONT DERAILLEUR
- ANGULAR CONTACT/COLLET BEARING SYSTEM WITH REPLACEABLE GREASE ZERKS

COMPONENT SPEC //

- FORK - 1.5" TAPERED STEER, 130MM TRAVEL, 519MM LOWER LEG LENGTH, 42MM OFFSET
- SHOCK - 200MM X 50.8MM (7.875" X 2"), 22MM X 6MM AND 30MM X 6MM REDUCERS
- FRONT DERAILLEUR - DIRECT MOUNT
- SEAT POST - 31.6MM
- HEADSET - CANE CREEK, 40, ALLOY CARTRIDGE (WWW.CANECREEK.COM)
- BOTTOM BRACKET - PF92
- REAR AXLE - BOOST 148 X 12 T/A
- BRAKE MOUNT - INTERNATIONAL STANDARD FOR 160MM ROTOR
- CRANK SET - BOOST 148 COMPATIBLE - SINGLE OR DOUBLE RING ONLY
- REAR WHEEL - BOOST 148 COMPATIBLE

GEOMETRY



GEOMETRY NOTES

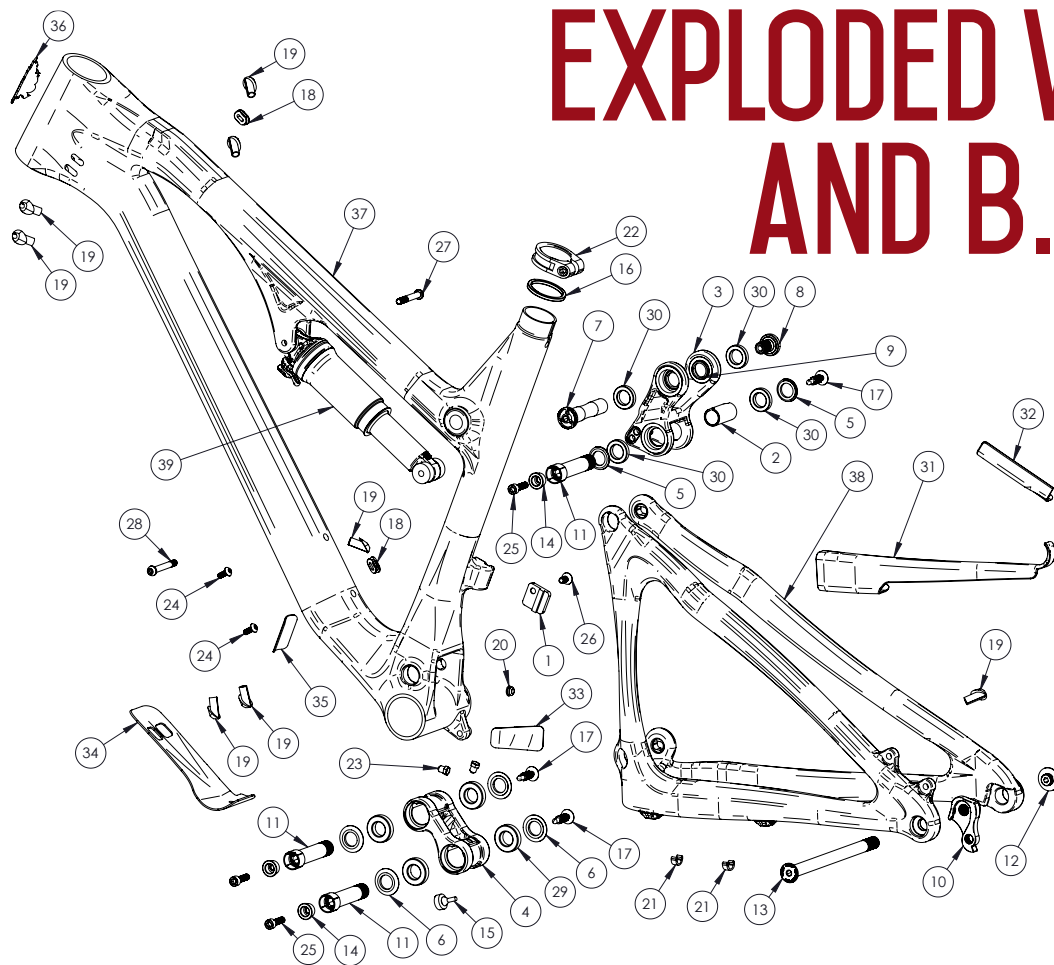
GEOMETRY TAKEN AT TOP OUT WITH 519MM FORK LENGTH AND 42MM FORK OFFSET.

COMPONENT SPEC NOTE

THE SPIDER 275 BOOST IS DESIGNED AROUND THE USE OF SINGLE OR DOUBLE CHAIN RING SETS ONLY. USE OF A TRIPLE RING SET WILL NOT ALLOW PROPER CLEARANCE WITH THE FRAME.

		SMALL	MEDIUM	LARGE	XLARGE
A	Wheel Base:	1125 mm/ 44.3"	1152 mm/ 45.4"	1178 mm/ 46.4"	1203 mm/ 47.4"
B	Top Tube Length:	572 mm/ 22.5"	597 mm/ 23.5"	622 mm/ 24.5"	648 mm/ 25.5"
C	Chain Stay Length:	419 mm/ 16.5"	419 mm/ 16.5"	419 mm/ 16.5"	419 mm/ 16.5"
D	Head Tube Length:	102 mm/ 4"	115 mm/ 4.5"	127 mm/ 5"	127 mm/ 5"
E	Head Tube Angle:	67°	67°	67°	67°
F	Reach:	422 mm/ 16.6"	445 mm/ 17.5"	467 mm/ 18.4"	492 mm/ 19.4"
G	Stack:	579 mm/ 22.8"	591 mm / 23.25"	602 mm/ 23.7"	602 mm/ 23.7"
H	BB Height:	337 mm/ 13.25"	337 mm/ 13.25"	337 mm/ 13.25"	337 mm/ 13.25"
I	Seat Tube Angle (Effective):	75.5°	75.5°	75.5°	75.5°
J	Seat Tube Angle (Actual):	72.5°	72.5°	72.5°	72.5°
K	Seat Tube Length:	375 mm/ 14.75"	445 mm/ 17.5"	483 mm/ 19"	514 mm/ 20.25"
L	Standover Height:	781 mm/ 30.76"	790 mm/ 31.1"	797 mm/ 31.38"	796 mm/ 31.33"

EXPLODED VIEW AND B.O.M.



ITEM NO.	ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE SPEC.
1	Derailleur Mount Cover	130209	For Single Ring Setip	1	N/A
2	Crush Tube	130759	Top Link Bearing Crush Tube	1	N/A
3	Top Link	130762	Forged Top Link	1	N/A
3 (SL)	Top Link	130760	Carbon Top Link	1	N/A
4	Box Link	130764	Forged Lower Link	1	N/A
5	Bearing Cap	130765	Top Link Bearing Cap	2	N/A
6	Bearing Cap	130778	Box Link Bearing Cap	4	N/A
7	Axle Upper	130780	Top Link Pivot Axle	1	20 Nm / 175 in-lbs
8	Bolt Shoulder	130785	Top Link Pivot Bolt	1	20 Nm / 175 in-lbs
9	Spacer	130789	Top Link Pivot Upper Spacer	2	N/A
10	Hanger	130790	Forged Derailleur Hanger	1	N/A
11	Bolt Main Pivot	130791	Bolt Main Pivot 1.5t Expander Blk	3	7 Nm / 60 in-lbs
12	Hanger Bolt	130792	Derailleur Hanger Bolt	1	11 Nm / 100 in-lbs
13	Rear Axle	130799	Axle Rear 148 x 12mm Boost Wheel Axle Kit	1	11 Nm / 100 in-lbs
14	Cone Adjuster	130807	Box Link Expander Cone	3	N/A
15	Bumper	140006	Box Link Bumper	1	N/A
16	O-Ring	140013	Seat Collar Seal	1	N/A
17	Plug	140038	Top Link & Box Link Pivot Plug	3	N/A
18	Cable Guide Plug	140039	Cable Guide Plug	2	N/A
19	Cable Guide	140040	Guide Cable	8	N/A
20	Grommet	140042	Chain Stay Cable Hole Grommet, 10 mm OD x 6 mm ID	1	N/A
21	Clip	310001	Cable Guide Clip	2	N/A
22	Seat Collar	346941	Bolt-On, 36.1	1	N/A

ITEM NO.	ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE SPEC.
23	Zerk Fitting	401011	M6 x 1.0	2	5 Nm / 40 in-lbs
24	BHCS M5 X 12	410010	Bottle Mount Bolt, Button Head, M5 X 12	2	6 Nm / 54 in-lbs
25	SHCS M6 x 22	410009	Cone Adjuster Bolt, Socket Head, M6 x 22	3	14 Nm / 125 in-lbs
25 (SL)	SHCS M6 x 22	410032	Cone Adjuster Bolt, Socket Head, M6 x 22, Titanium	3	14 Nm / 125 in-lbs
26	FHCS M6 x 12	410037	Derailleur Mount Cover, Flat Head, M6 x 12	1	7 Nm / 60 in-lbs
27	SHCS M6 x 40	410002	SHCS, Socket Head, M6 x 40	1	7 Nm / 60 in-lbs
27 (SL)	SHCS M6 x 40	410050	SHCS, Socket Head, M6 x 40, Titanium	1	7 Nm / 60 in-lbs
28	SHCS M6 x 45	410015	SHCS, Socket Head, M6 x 45	1	7 Nm / 60 in-lbs
28 (SL)	SHCS M6 x 45	410051	SHCS, Socket Head, M6 x 45 Titanium	1	7 Nm / 60 in-lbs
29	Bearing 7902	430007	15 x 28 x 7 2RS, MAX Angular Contact Bearing	4	N/A
30	Bearing 6802	430008	15 x 24 x 5 2RS, MAX Radial Bearing	4	N/A
31	Guard Flack CS	500253	Flack Guard S275C Chainstay	1	N/A
32	Guard Flack SS	500254	Flack Guard S275C Seatstay	1	N/A
33	Protector Chainstay	500255	Chain Suck Protector	1	N/A
34	Guard Flack	500256	Flack Guard S275C Down Tube	1	N/A
35	Decal	500300	Decal California Bear	1	N/A
36	Head Badge	500335	Head Badge Flame Logo	1	N/A
37	Front Triangle		Carbon, 4 Sizes	1	N/A
38	Rear Triangle		Carbon 1 Size	1	N/A
39	Rear Shock		Rear Shock, 7875 x 2	1	N/A

ASSEMBLY

PREFACE //

Service and maintenance on an Intense bicycle requires special tools, abilities and knowledge of working on bicycles. It is always recommended to use an authorized Intense dealer for service and maintenance. Always wear eye protection. It is critical to use the proper tools, loctite, grease and torque specs during assembly. Failure to follow these instructions may result in serious bodily injury or death.

TOOLS NEEDED

- HIGH GRADE, WATERPROOF GREASE
(MAXIMA WATERPROOF GREASE
RECOMMENDED)
- BLUE LOCTITE #243
- 5MM HEX WRENCH X2
- 8MM HEX WRENCH

RECOMMENDATION

USE GREASE ON LOWER LINKAGE BOLTS
ONLY. USE LOCTITE ON UPPER LINKAGE
BOLTS, DROPOUT BOLTS AND HANGER BOLT.





CONNECTING TOP LINK TO FRONT TRIANGLE //

A Holding top link (#130760) with shock mount pointed forward, hold upper spacer (#130789) against inside of bearing race (IMAGE #1).

B Match upper link to top tube, making sure that spacers do not fall out.

C Using upper pivot axle (#130780), insert through non-drive side of top link bearing and push through to drive side bearing, making sure spacers do not fall out (IMAGE #2). Install shoulder bolt (#130785) into drive side of top link pivot, and tighten to 20 NM or 175 in/lbs (IMAGE #3).

CONNECTING BOX LINK TO FRONT TRIANGLE //

A Hold bearing caps with rounded ends facing outwards against bearings on box link (IMAGE #4), (note box link orientation in image #4, with rubber bumper facing downward and rearward on box link).

B Match link to front triangle and from non drive side, insert greased main pivot bolt (#130791) through the non-drive side of frame (IMAGE #5).

C Use 8mm HEX to install, then torque pivot bolt (#130791) to 7 NM or 60 in/lbs.



6



8



7



9

CONNECTING REAR TRIANGLE TO BOX LINK //

A Follow previous step to connect rear triangle to box link (IMAGES #6 & 7).

B Use 8mm HEX to install, then torque pivot bolt (#130791) to 7 NM or 60 in/lbs.

CONNECTING REAR TRIANGLE TO TOP LINK //

A Holding spacers (#130765) with squared edges against the bearing and the rounded side facing outward (IMAGE #8). Swing the seat stays up and align with the lower spacers. From the non drive side of top link, install greased pivot bolt (#130791) (IMAGE #9). Use an 8mm HEX to install.

B Use an 8mm HEX to install torque main pivot bolt (#130791) to 7 NM or 60 in/lb



INSTALLING REAR SHOCK //

A Holding rear shock match forward end to forward shock mount, and install greased M6x40mm bolt (#410050) through drive side of frame (IMAGE #10). Do not tighten.

B Match rear end of shock to desired travel setting (see below) on upper link and install greased M6x45mm bolt (#410051) through non-drive side of link (IMAGE #11).

C Torque shock bolts (#410050 & #410051) to 7 NM or 60 in/lbs (IMAGES #12 & 13).

ADJUSTABLE TRAVEL NOTE

THE TOP LINK OF THE SPIDER 275 CARBON BOOST FEATURES DUAL MOUNTING POSITIONS. THE UPPER SHOCK MOUNTING HOLE ON TOP LINK IS FOR LONG TRAVEL. THE LOWER HOLE IS FOR SHORT TRAVEL. FOR MORE INFORMATION SEE THE SET UP GUIDE ON PAGE 14.

TIGHTENING SEATSTAYS TO TOP LINK //

A Grease and install adjuster cone (#130807) into head of main pivot bolt (#130791) and greased M6x22mm bolt (#410032) through the adjuster cone into the main pivot bolt (IMAGE #14).

B Using hand pressure, squeeze the top of seat stay together at the lower top link location to eliminate side to side play (IMAGE #15) then use a 5mm HEX to make snug.

C Torque M6x22mm (#410032) to 14 NM or 125 in/lbs (IMAGE #16).



17



18



19



20



21



22

INSTALLING ADJUSTER CONES ON LOWER LINK //

A Grease and install adjuster cone (#130807) into head of main pivot bolt (#130791) and greased M6x22mm bolt (#410032) through the adjuster cone into the main pivot bolt (IMAGES #17 & 18).

B Torque M6x22mm (#410032) to 14 NM or 125 in/lbs (IMAGE #19).

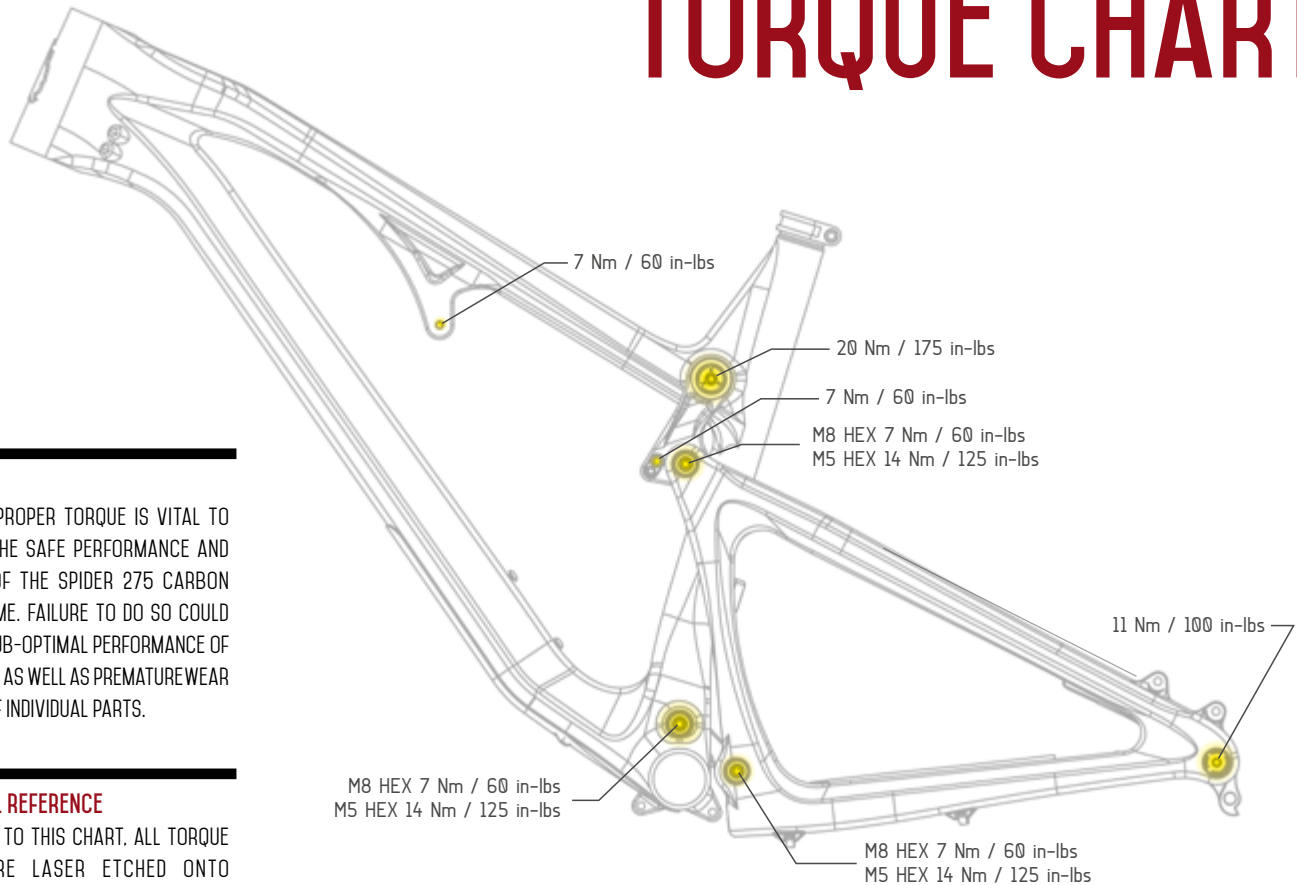
INSTALLING DERAILLEUR HANGER //

A Grease outer edges of derailleur hanger (#130790) and loctite derailleur bolt (#130792) if not pre loctite applied (IMAGE #20).

B Insert hanger (#130790) into back of frame opening and match derailleur bolt (#130792) on the front side threading bolt into hanger (IMAGE #21).

C Torque derailleur bolt to 11NM or 100 in/lbs (IMAGE# 22).

TORQUE CHART



TORQUE

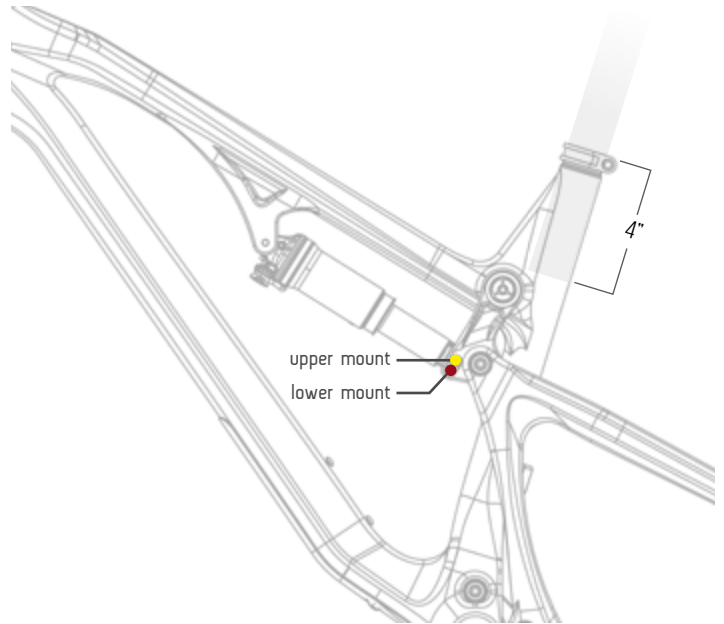
ACHIEVING PROPER TORQUE IS VITAL TO ENSURING THE SAFE PERFORMANCE AND FUNCTION OF THE SPIDER 275 CARBON BOOST FRAME. FAILURE TO DO SO COULD RESULT IN SUB-OPTIMAL PERFORMANCE OF YOUR FRAME AS WELL AS PREMATURE WEAR AND TEAR OF INDIVIDUAL PARTS.

ADDITIONAL REFERENCE

IN ADDITION TO THIS CHART, ALL TORQUE VALUES ARE LASER ETCHED ONTO CORRESPONDING HARDWARE FOR YOUR REFERENCE.



SET UP



SEATPOST

MAKE SURE TO INSERT SEAT POST AT LEAST 4" INTO THE MAIN FRAME. ANYTHING LESS THAN THIS AMOUNT COULD CAUSE DAMAGE TO THE FRAME OR EVEN FAILURE.

ADJUSTABLE TRAVEL

- UPPER MOUNT: 130MM
- LOWER MOUNT: 115MM

SHOCK SETUP

ROCK SHOX MONARCH RT3 200X50MM



SET UP AND TUNE

PROPER SET UP AND TUNING CAN VARY FROM SHOCK TO SHOCK. PLEASE CONSULT THE ROCKSHOX MANUAL INCLUDED WITH YOUR BIKE FOR COMPLETE INFORMATION ABOUT SET UP, TUNING AND GENERAL MAINTENANCE OR VISIT WWW.SRAM.COM/ROCKSHOX/PRODUCTS

TRAVEL	115 MM		130 MM	
SHOCK STROKE	50 mm			
SHOCK SAG	30% when sitting on the bike			
FORK SAG	25-30% when sitting on the bike			
SHOCK	Rock Shox Monarch RT3 200x50mm			
RIDER WEIGHT [LBS/KGS]	SPRING (PSI)	REBOUND (clicks out)	SPRING (PSI)	REBOUND (clicks out)
100 LBS / 45 KGS	92	2 to 3	99	2 to 3
110 LBS / 50 KGS	98		107	
120 LBS / 54 KGS	104		114	
130 LBS / 59 KGS	110		122	
140 LBS / 63.5 KGS	116		129	
150 lbs / 68 kgs	122	3 to 4	137	3 to 4
160 lbs / 72.57 kgs	128		145	
170 lbs / 77.11 kgs	133		152	
180 lbs / 81.65 kgs	139		160	
190 lbs / 86.18 kgs	145		167	
200 lbs / 90.72 kgs	151		175	
210 lbs / 95.25 kgs	157		182	
220 lbs / 99.79 kgs	163		190	
230 lbs / 104.33 kgs	169	5 to 6	197	5 to 6
240 lbs / 108.86 kgs	174		205	
250 lbs / 113.40 kgs	180		212	
260 lbs / 117.93 kgs	186		220	
270 lbs / 122.50 kgs	192		227	
280 lbs / 127.00 kgs	198		235	
290 lbs / 131.54 kgs	204		242	
300 lbs / 136.08 kgs	210		250	

SHOCK SETUP

X-FUSION 02 RL 200X50MM



SET UP AND TUNE

PROPER SET UP AND TUNING CAN VARY FROM SHOCK TO SHOCK. PLEASE CONSULT THE X-FUSION MANUAL INCLUDED WITH YOUR BIKE FOR COMPLETE INFORMATION ABOUT SET UP, TUNING AND GENERAL MAINTENANCE OR VISIT WWW.XFUSIONSHOX.COM

TRAVEL	115 MM		130 MM	
SHOCK STROKE	50 mm			
SHOCK SAG	30% when sitting on the bike			
FORK SAG	25-30% when sitting on the bike			
SHOCK	X-Fusion 02 RL 200x50mm			
RIDER WEIGHT(LBS/KGS)	SPRING (PSI)	REBOUND (clicks out)	SPRING (PSI)	REBOUND (clicks out)
100 LBS/ 45 KGS	42	2 to 3	54	2 to 3
110 LBS/ 50 KGS	50		63	
120 LBS/ 54 KGS	58		71	
130 LBS/ 59 KGS	66		80	
140 LBS/ 63.5 KGS	74		89	
150 lbs / 68 kgs	82	4 to 5	97	4 to 5
160 lbs / 72.57 kgs	90		106	
170 lbs / 77.11 kgs	98		114	
180 lbs / 81.65 kgs	106		123	
190 lbs / 86.18 kgs	113		131	
200 lbs / 90.72 kgs	121		140	
210 lbs / 95.25 kgs	129		148	
220 lbs / 99.79 kgs	137		157	
230 lbs / 140.33 kgs	145	6 to 7	165	6 to 7
240 lbs / 108.86 kgs	153		174	
250 lbs / 113.40 kgs	161		182	
260 lbs / 117.93 kgs	169		191	
270 lbs / 122.50 kgs	177		199	
280 lbs / 127.00 kgs	184		208	
290 lbs / 131.54 kgs	192		217	
300 lbs / 136.08 kgs	200		225	



MAINTENANCE

GENERAL SERVICE AND CARE //

You have purchased a high performance bicycle which requires a certain level of service and maintenance to sustain the level of performance your frame was designed around. Proper care will also ensure the bike is safe to ride at all levels. It is important to read and understand the carbon care information as well as follow the maintenance schedule and inspect your bicycle before each ride. These will not only help to limit or avoid costly repairs but will also help to avoid injury due to service neglect and component failure.

CARBON CARE

INTENSE CYCLES EMPLOYS ADVANCED COMPOSITE TECHNIQUES AND MATERIALS IN OUR FRAMES WHICH DO REQUIRE A CERTAIN LEVEL OF CARE AND MAINTENANCE TO ENSURE A SAFE EXPERIENCE AT THE HIGH LEVEL OF PERFORMANCE EACH FRAME IS DESIGNED AROUND. NOT FOLLOWING THESE GUIDELINES WILL DECREASE THE LEVEL OF PERFORMANCE AND POSSIBLY CAUSE INJURY OR DEATH.

- Use a soft cloth with warm soapy water to clean the carbon surfaces. Do not use abrasive cloths or cleaners.
- Be sure all frame surfaces in contact with cables are protected. Cable housing rubbing on carbon can wear over time.
- Be sure brake levers, handle bar ends and the fork crown do not contact the frame at full rotation.
- Never clamp any part of a carbon frame in a bike stand or car rack.
- Always inspect your frame if you experience any chain suck. Intense frames come equipped with steel chain suck plates but damage can still be done in the event of chain suck.
- Always inspect your frame in full after a crash to be sure there is no damage. Look for cracks, dents or loose fibers. If you discover damage in any degree it's best to have your frame inspected by a qualified Intense Cycles dealer. Any direct impact to the frame can cause serious structural damage.
- Use high grade waterproof grease on seat post, BB and head set bearing contact areas with the carbon.
- Never ream or face a carbon frame.
- Be sure to follow all recommended torque settings.



MAINTENANCE SCHEDULE*

	ACTION	EVERY RIDE	500 MILES OR 1 MONTH	2000 MILES OR 6 MONTHS	4000 MILES OR 1 YEAR
TIRES	Check air pressure, inspect tread and sidewalls for tears and punctures	X			
CHAIN	Brush off and lubricate	X			
BRAKES	Squeeze brakes and confirm function	X			
GENERAL	Clean complete bike of mud and debris		X		
HEADSET	Check adjustment		X		
BOX LINK	Add grease thru zerk fittings		X		
FRAME PIVOTS	Check torques		X		
SPOKES	Inspect for damage, check tension		X		
SHOCK AND FORK	Check air pressure, inspect for leaks		X		
DERAILEUR CABLES	Inspect and lube			X	
SEATPOST	Clean and regrease interface with frame			X	
FRAME PIVOTS	Remove pivot bolts, check bearings for pitting and wear			X	
HEADSET	Disassemble stem, headset and fork. Check bearings for pitting and wear			X	
HUBS	Pull wheels off, check hub bearings for pitting and wear			X	
BOTTOM BRACKET	Remove crank arms and check BB bearings for pitting and wear			X	
BRAKES	Replace brake pads			X	
CHAIN	Inspect for damage and check for stretching			X	
GENERAL	Complete Tune-Up				X
SHOCK AND FORK	Overhaul			See MFG Recommendations	

* THE ABOVE MAINTENANCE SCHEDULE IS ONLY A GUIDELINE. REFER TO COMPONENT MANUFACTURER FOR SPECIFIC INSTRUCTION ON MAINTAINING THEIR PARTS.

W W W . I N T E N S E C Y C L E S . C O M

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