



INTENSE
CYCLES . USA

USER MANUAL | ACV

WELCOME TO THE FAMILY

REGISTRATION

WWW.INTENSECYCLES.COM/WARRANTY-CARD/



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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 27.5+ ACV //

ACV = Air. Cushioned. Vehicle...and that's how it rides. This Enduro minded ride is Intense Cycles first offering with a 1X specific frame design. We've eliminated the front derailleur for those of you who are honch enough for single ring up front. This allows us to increase stiffness by having symmetrical, vertical struts on the rear triangle and clears some room for the wide, 27.5+ tires.

The adjustable travel (4.5" or 5") is enough to fine tune your ride for any trail and the full carbon monocoque front and rear triangles keep things nimble and light for the climb. This vehicle is a ripper of a ride.



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FRAME FEATURES / SPEC

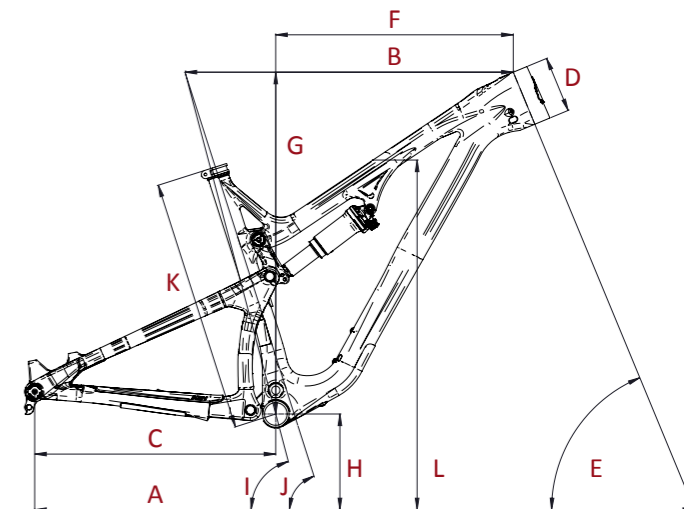
FRAME FEATURES //

- ADJUSTABLE TRAVEL: 4.5" TO 5" (115MM OR 130MM)
- 27.5+ " WHEEL SIZE
- 5.3 LBS / 2,420 GRAMS = STANDARD FRAME W/ ALLOY LINK, NO SHOCK, SIZE M
- TAPERED HEAD TUBE
- MONOCOQUE FRONT TRIANGLE
- INTEGRATED BOOST 148 X 12 DROPOUTS
- INTERNAL BRAKE AND DERAILLEUR CABLE ROUTING SYSTEM
- INTERNAL SEAT TUBE CABLE ROUTING FOR DROPPER POSTS
- ANGULAR CONTACT/COLLET BEARING SYSTEM WITH REPLACEABLE GREASE ZERKS
- FLACK GUARD DOWNTUBE AND CHAINSTAY PROTECTION
- H2O BOTTLE FITMENT

COMPONENT SPEC //

- FORK – 1.5" TAPERED STEER, 150MM TRAVEL, 561MM LOWER LEG LENGTH, 51MM OFFSET
- SHOCK – 200MM X 50.8MM (7.875" X 2"). 22MM X 6MM AND 30MM X 6MM REDUCERS
- 1X GEARING ONLY
- SEAT POST – 31.6MM
- HEADSET – ZERO STACK 44 UPPER / EXTERNAL CUP 49 LOWER
- BOTTOM BRACKET - PRESS FIT BB92
- REAR AXLE – BOOST 148 X 12 T/A
- BRAKE MOUNT – POST MOUNT FOR 160MM ROTOR
- CRANK SET – BOOST 148 COMPATIBLE - SINGLE RING ONLY
- REAR WHEEL - BOOST 148 COMPATIBLE

GEOMETRY



		SMALL	MEDIUM	LARGE	XLARGE
A	Wheel Base:	1146 mm/ 45.1"	1172 mm/ 46.1"	1199 mm/ 47.2"	1225 mm/ 48.2"
B	Top Tube Length:	573 mm/ 22.6"	599 mm/ 23.6"	624 mm/ 24.6"	651 mm/ 25.6"
C	Chain Stay Length:	438 mm/ 17.25"	438 mm/ 17.25"	438 mm/ 17.25"	438 mm/ 17.25"
D	Head Tube Length:	94 mm/ 3.7"	102 mm/ 4"	114 mm/ 4.5"	119 mm/ 4.7"
E	Head Tube Angle:	66.25°	66.25°	66.25°	66.25°
F	Reach:	394 mm/ 15.5"	416 mm/ 16.4"	438 mm/ 17.25"	463 mm/ 18.2"
G	Stack:	620 mm/ 24.4"	628 mm / 24.7"	640 mm/ 25.2"	645 mm/ 25.4"
H	BB Height:	334 mm/ 13.15"	334 mm/ 13.15"	334 mm/ 13.15"	334 mm/ 13.15"
I	Seat Tube Angle (Effective):	73.8°	73.8°	73.8°	73.8°
J	Seat Tube Angle (Actual):	71°	71°	71°	71°
K	Seat Tube Length:	433 mm/ 17"	458 mm/ 18"	484 mm/ 19"	509 mm/ 20"
L	Standover Height:	801 mm/ 31.55"	805 mm/ 31.68"	810 mm/ 31.9"	813 mm/ 32"

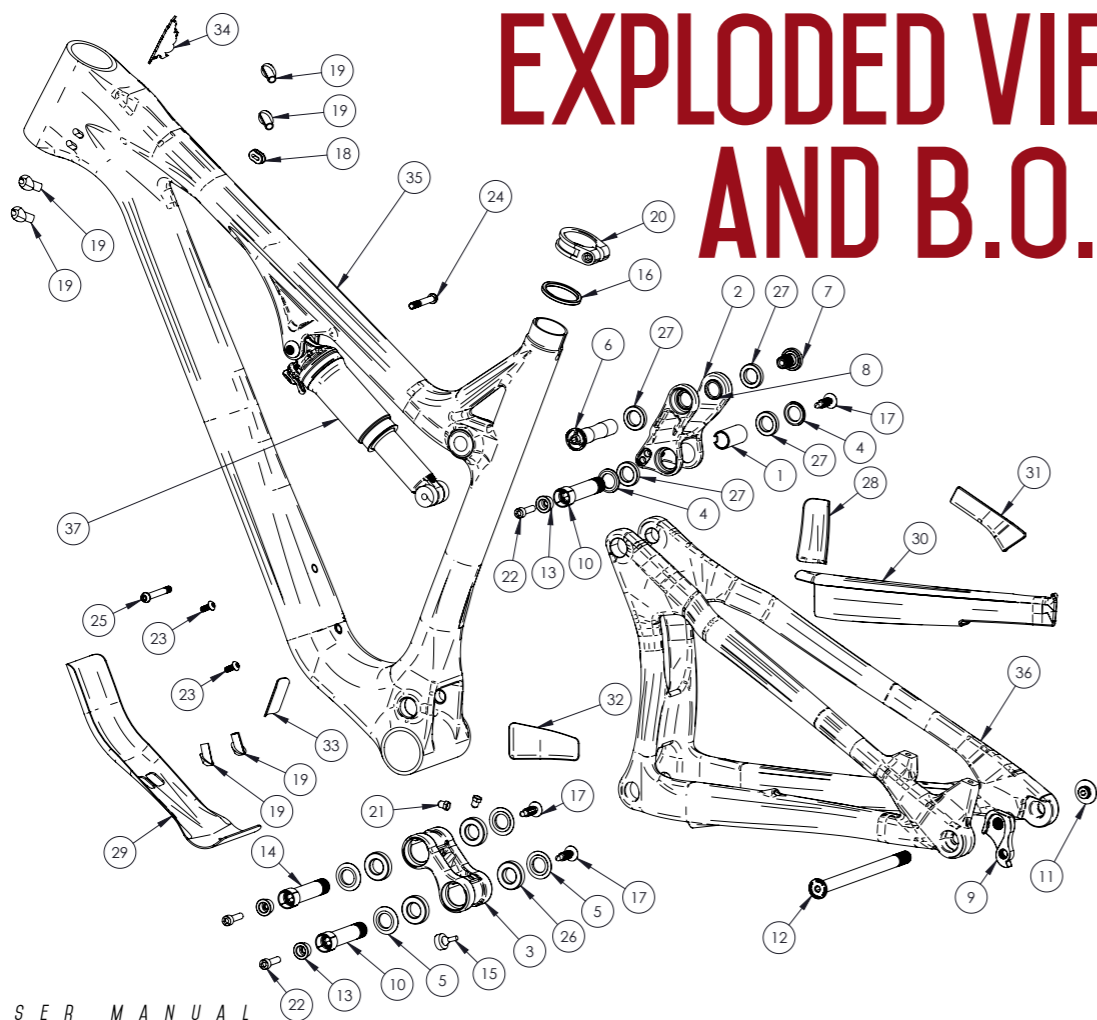
GEOMETRY NOTES

GEOMETRY TAKEN AT TOP OUT WITH 561MM FORK LENGTH AND 51MM FORK OFFSET.

COMPONENT SPEC NOTE

THE ACV IS DESIGNED AROUND THE USE OF SINGLE CHAIN RING. USE OF A DOUBLE OR TRIPLE RING SET WILL NOT ALLOW PROPER CLEARANCE WITH THE FRAME.

EXPLODED VIEW AND B.O.M.



ITEM NO.	ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE SPEC.
1	Bearing Spacer	130759	Top Link Bearing Spacer (Lower)	1	N/A
2	Top Link	130762	Forged Top Link	1	N/A
3	Box Link	130764	Forged Lower Link	1	N/A
4	Bearing Cap 24mm OD	130765	Top Link Bearing Cap (Lower)	2	N/A
5	Bearing Cap	130778	Box Link Bearing Cap	4	N/A
6	Axle Upper	130780	Top Link Pivot Axle	1	20 Nm / 175 in-lbs
7	Bolt Shoulder	130785	Top Link Pivot Bolt	1	20 Nm / 175 in-lbs
8	Spacer	130789	Box Link Bearing Spacer	2	N/A
9	Hanger	130790	Derailleur Hanger Forged	1	N/A
10	Bolt Main Pivot	130791	Bolt Main Pivot 1.5t Expander Blk	2	7 Nm / 60 in-lbs
11	Hanger Bolt	130792	Derailleur Hanger Bolt	1	11 Nm / 100 in-lbs
12	Rear Axle	130799	148 x 12mm Boost Wheel Axle Kit	1	11 Nm / 100 in-lbs
13	Cone Adjuster	130807	Pivot Axle Expander Cone	3	N/A
14	Bolt Main Pivot C/G	130819	Bolt Main Pivot 1.5t Expander, w/int. Threads for Chain Guide, Silver	1	7 Nm / 60 in-lbs
15	Bumper	140006	Box Link Bumper	1	N/A
16	O-Ring	140013	Seat Clamp o-ring	1	N/A
17	Plug	140038	Box Link Pivot Plug	3	N/A
18	Cable Guide Gromet	140039	Cable Guide Gromet	1	N/A
19	Cable Guide Plug	140040	Cable Guide Plug	6	N/A
20	Seat Collar	346941	Bolt-on 36.1	1	N/A

ITEM NO.	ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE SPEC.
21	Zerk Fitting	401011	M6 x 1.0	2	5 Nm / 40 in-lbs
22	SHCS M6 x 22	410009	Cone Adjuster Bolt, Socket Head, M6 x 22	3	14 Nm / 125 in-lbs
23	BHCS M5 X 12	410010	Water Bottle Bolt, Button Head, M5 X 12	2	6 Nm / 54 in-lbs
24	SHCS M6 x 40	410053	Shock Bolt, Front, Socket Head, M6 x 40	1	7 Nm / 60 in-lbs
25	SHCS M6 x 45	410054	Shock Bolt, Rear, Socket Head, M6 x 45	1	7 Nm / 60 in-lbs
26	Bearing 7902	430007	15 x 28 x 7 2RS MAX Angular Contact Bearing	4	N/A
27	Bearing 6802	430008	15 x 24 x 5 2RS MAX Radial Bearing	4	N/A
28	Guard Flack Rear Strut	500260	Flack Guard ACV Rear Strut	1	N/A
29	Guard Flack DT	500262	Flack Guard ACV Down Tube	1	N/A
30	Guard Flack CS	500266	Flack Guard ACV Chainstay	1	N/A
31	Guard Flack SS	500267	Flack Guard ACV Seatstay	1	N/A
32	Chain Stay Protector	500268	Chain Stay Protector, ACV	1	N/A
33	Decal California Bear	500300	Decal California Bear	1	N/A
34	Head Badge	500335	Head Badge Flame Logo	1	N/A
35	Front Triangle	Front Triangle	Carbon, 4 Sizes	1	N/A
36	Front Triangle	Rear Triangle	Carbon, 1 Size	1	N/A
37	Shock	Shock	Rear Shock, 7.875" x 2" (200mm x 50.8mm)	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 (#130762) with shock mount pointed forward, hold upper spacers (#130789) against inside of bearing race (IMAGE #1).

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

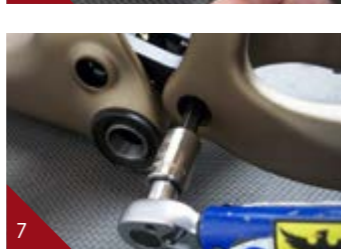
C Using upper pivot axle (#130780), insert through non-drive side of top link bearing and push through to drive side bearing, making sure spacers do not fall out (IMAGE #2). Install shoulder bolt (#130785) into drive side of top link pivot, and tighten to 20 NM or 175 in/lbs (IMAGE #3).

CONNECTING BOX LINK TO FRONT TRIANGLE //

A Hold bearing caps (#130778) with rounded ends facing outwards against bearings on box link (#130764) (IMAGE #4), (note box link orientation in image #4, with rubber bumper facing upward and rearward on box link).

B Match link to front triangle and from non drive side, insert greased main pivot bolt (#130819) through the non-drive side of frame (IMAGE #5).

C Use 8mm HEX to install, then torque pivot bolt (#130819) to 7 NM or 60 in/lbs.



CONNECTING REAR TRIANGLE TO BOX LINK //

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

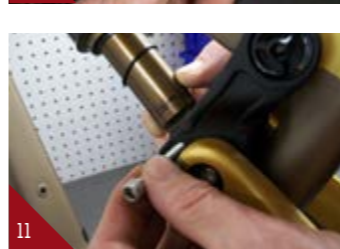
B Use 8mm HEX to install, then torque pivot bolt (#130791) to 7 NM or 60 in/lbs.



CONNECTING REAR TRIANGLE TO TOP LINK //

A Hold spacers (#130765) with squared edges against the bearing and the rounded edges 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).

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



INSTALLING REAR SHOCK //

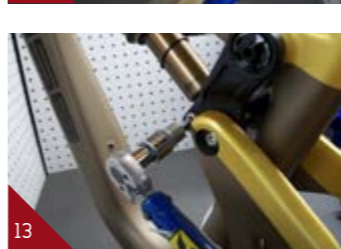
A Holding the rear shock in one hand, match the forward end to the forward shock mount on the frame and install greased M6x40mm bolt (#410053) through drive side of frame (IMAGE #10). Do not tighten.

B Match rear end of shock to desired travel setting (see below) on upper link and install greased M6x45mm bolt (#410054) through non-drive side of link (IMAGE #11).

C Torque shock bolts (#410053 & #410054) to 7 NM or 60 in/lbs (IMAGES #12 & 13).

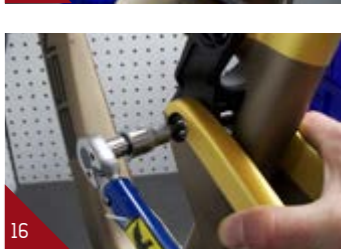
ADJUSTABLE TRAVEL NOTE

THE TOP LINK OF THE ACV 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 (#410009) 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 (#410009) to 14 NM or 125 in/lbs (IMAGE #16).



17



19



18



20



21



22

INSTALLING ADJUSTER CONES ON LOWER LINK //

A Grease and install adjuster cone (#130807) into head of main pivot bolt (#130819 / #130791) and greased M6x22mm bolt (#410009) through the adjuster cone into the main pivot bolt (IMAGES #17 & 18).

B Torque M6x22mm (#410009) 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) (IMAGE #20).

B Insert hanger (#130790) into back of frame opening and match derailleur bolt (#130792) from outside of frame, threading bolt into hanger (IMAGE #21).

C Torque derailleur bolt (#130792) to 11NM or 100 in/lbs (IMAGE #22).

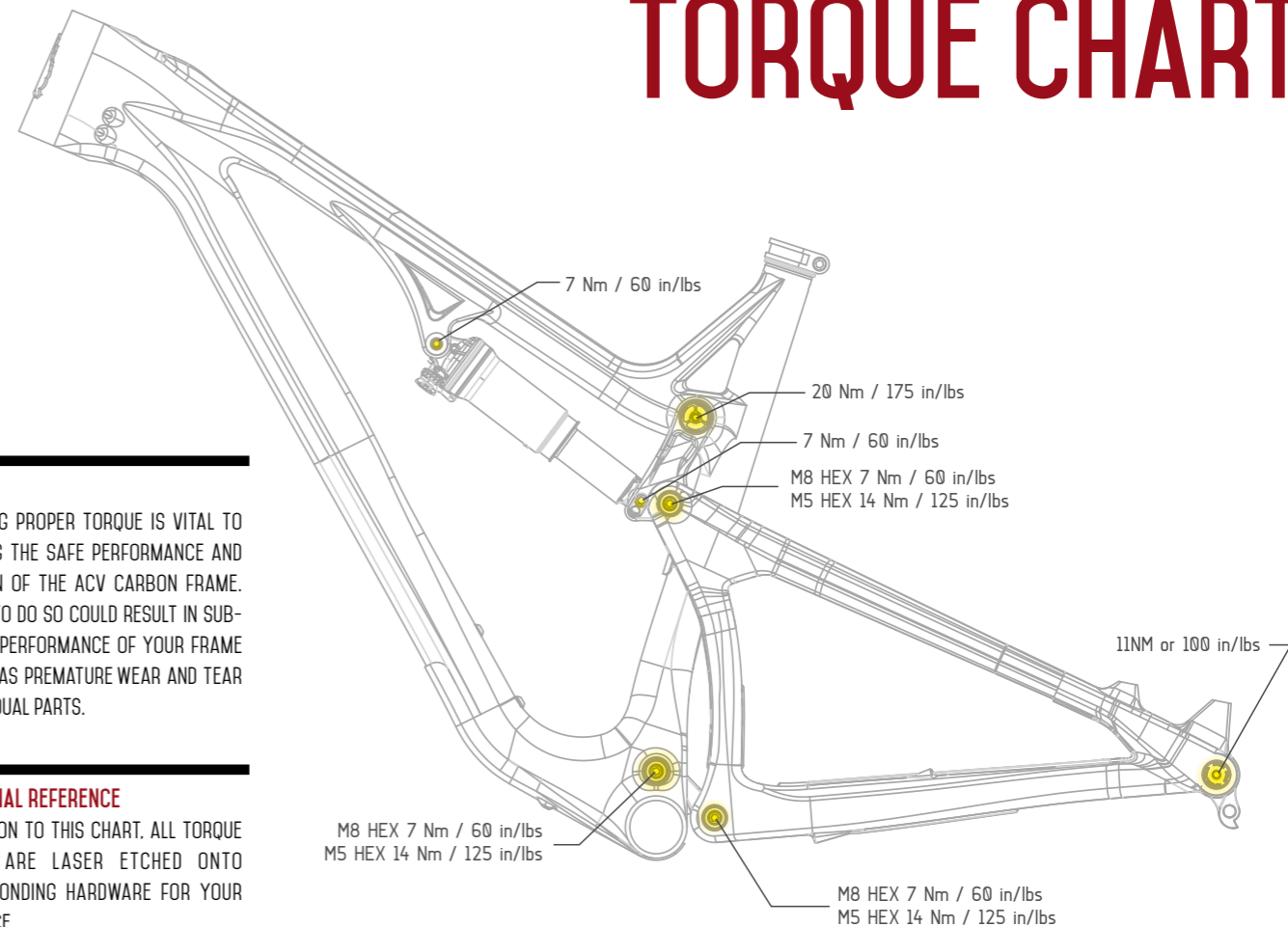
TORQUE CHART

TORQUE

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

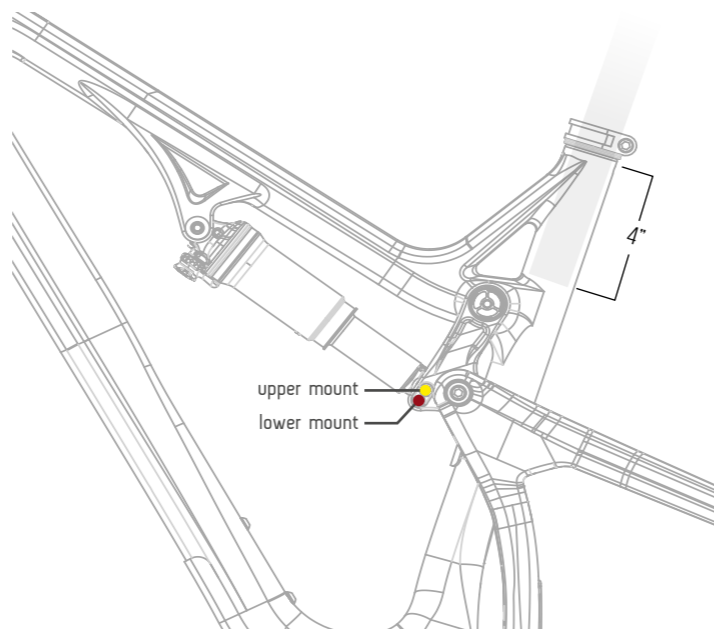
ADDITIONAL REFERENCE

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 200X51MM



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	51 mm			
SHOCK SAG	20% when sitting on the bike			
FORK SAG	25-30% when sitting on the bike			
SHOCK: ACV PRO	Rock Shox Monarch RT3 200x51 mm DB2 MM S 320			
SHOCK: ACV FOUNDATION	Rock Shox Monarch R 200x51 mm DB2 MM S 320			
RIDER WEIGHT (LBS/KGS)	SPRING (PSI)	REBOUND (CLICKS OUT)	SPRING (PSI)	REBOUND (CLICKS OUT)
100 LBS / 45 KGS	89	2 to 3	99	2 to 3
110 LBS / 50 KGS	104		114	
120 LBS / 54 KGS	120		130	
130 LBS / 59 KGS	136		146	
140 LBS / 63.5 KGS	151	3 to 4	161	3 to 4
150 LBS / 68 KGS	167		177	
160 LBS / 73 KGS	182		192	
170 LBS / 77 KGS	198		208	
180 LBS / 82 KGS	213		223	
190 LBS / 86 KGS	229		239	
200 LBS / 91 KGS	244		254	
210 LBS / 95 KGS	260	270	5 to 6	
220 LBS / 100 KGS	275	285		
230 LBS / 104 KGS	291	301		
240 LBS / 109 KGS	306	316		
250 LBS / 113 KGS	322	332		
260 LBS / 118 KGS	337	347		
270 LBS / 122 KGS	353	363	5 to 6	
280 LBS / 127 KGS	368	378		
290 LBS / 131.5 KGS	384	394		
300 LBS / 136 KGS	399	409		



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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