INTENSE

CYCLES · USA

USER MANUAL | M16

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 M16

We haven't forgotten our heritage. Introducing the all new, M16 DH. Made strictly for downhill racing, this new aluminum frame features 27.5" wheels, race specific geometry, adjustable travel and adjustable shock curve progression to fine tune the performance for any trail. Couple that with a tapered head and steer tube, Patented VPP suspension technology and extra wide 157mm rear wheel spacing to give you a solid race bike that's going to respond in the most demanding World Cup courses.

REGISTRATION

WWW.INTENSECYCLES.COM/WARRANTY-CARD/

CONTACT CUSTOMER SERVICE

CS@INTENSECYCLES.COM

951-296-9596

FRAME FEATURES / SPEC

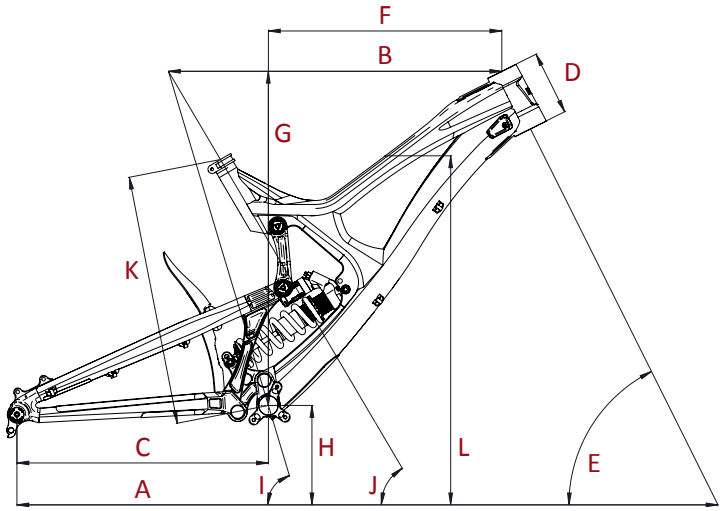
FRAME FEATURES //

- ADJUSTABLE TRAVEL – 8.5" OR 9.5" (215MM OR 241MM)
- ADJUSTABLE SHOCK CURVE PROGRESSION
- 27.5" WHEEL SIZE
- PATENTED VPP SUSPENSION TECHNOLOGY
- TAPERED HEAD TUBE
- ISCG 05 MOUNTS
- MODERN DH RACE GEOMETRY
- INTEGRATED 157X12 DROPOUTS
- EXTERNAL CABLE ROUTING SYSTEM
- ANGULAR CONTACT BEARING / COLLET 15MM AXLE SYSTEM WITH REPLACEABLE GREASE ZERKS
- FLACK GUARD CHAIN STAY & DOWN TUBE PROTECTION
- INTEGRATED FORK BUMPER/CABLE GUIDE SYSTEM

COMPONENT SPEC //

- FORK – ACCEPTS 1.125" STRAIGHT STEER OR 1.125"/1.5" TAPERED STEER, 200MM TRAVEL, 594MM LOWER LEG LENGTH, 42MM OFFSET
- SHOCK – 9.5" X 3"(241MM X 76MM), 22MM X 8MM AND 34MM X 8MM REDUCERS
- CHAIN GUIDE MOUNT - ISCG-05
- SEAT POST – 31.6MM
- HEADSET – ZERO STACK 49 UPPER / 56 LOWER CUPS
- BOTTOM BRACKET - THREADED 83MM (M16)
- REAR AXLE – 157MM X 12MM TA
- BRAKE MOUNT – INTERNATIONAL STANDARD 160MM - 203MM ROTOR

GEOMETRY



		SMALL	MEDIUM	LARGE	XLARGE
A	Wheel Base:	1194 mm/ 47"	1219 mm/ 48"	1245 mm/ 49"	1270 mm/ 50"
B	Top Tube Length:	565 mm/ 22.25"	591 mm/ 23.25"	616 mm/ 24.25"	641 mm/ 25.25"
C	Chain Stay Length:	445 mm/ 17.5"	445 mm/ 17.5"	445 mm/ 17.5"	445 mm/ 17.5"
D	Head Tube Length:	109 mm/ 4.3"	115 mm/ 4.5"	122 mm/ 4.8"	122 mm/ 4.8"
E	Head Tube Angle:	63.5°	63.5°	63.5°	63.5°
F	Reach:	391 mm/ 15.4"	413 mm/ 16.3"	436 mm/ 17.15"	461 mm/ 18.15"
G	Stack:	587 mm/ 23.1"	592 mm / 23.3"	598 mm/ 23.55"	598 mm/ 23.55"
H	BB Height:	365 mm/ 14.375"	365 mm/ 14.375"	365 mm/ 14.375"	365 mm/ 14.375"
I	Seat Tube Angle (Effective):	73.3°	73.3°	73.3°	73.3°
J	Seat Tube Angle (Actual):	59.5°	59.5°	59.5°	59.5°
K	Seat Tube Length:	436 mm/ 17.2"	442 mm/ 17.4"	454 mm/ 17.9"	454 mm/ 17.9"
L	Standover Height:	797 mm/ 31.4"	803 mm/ 31.6"	809 mm/ 31.9"	816 mm/ 32.1"

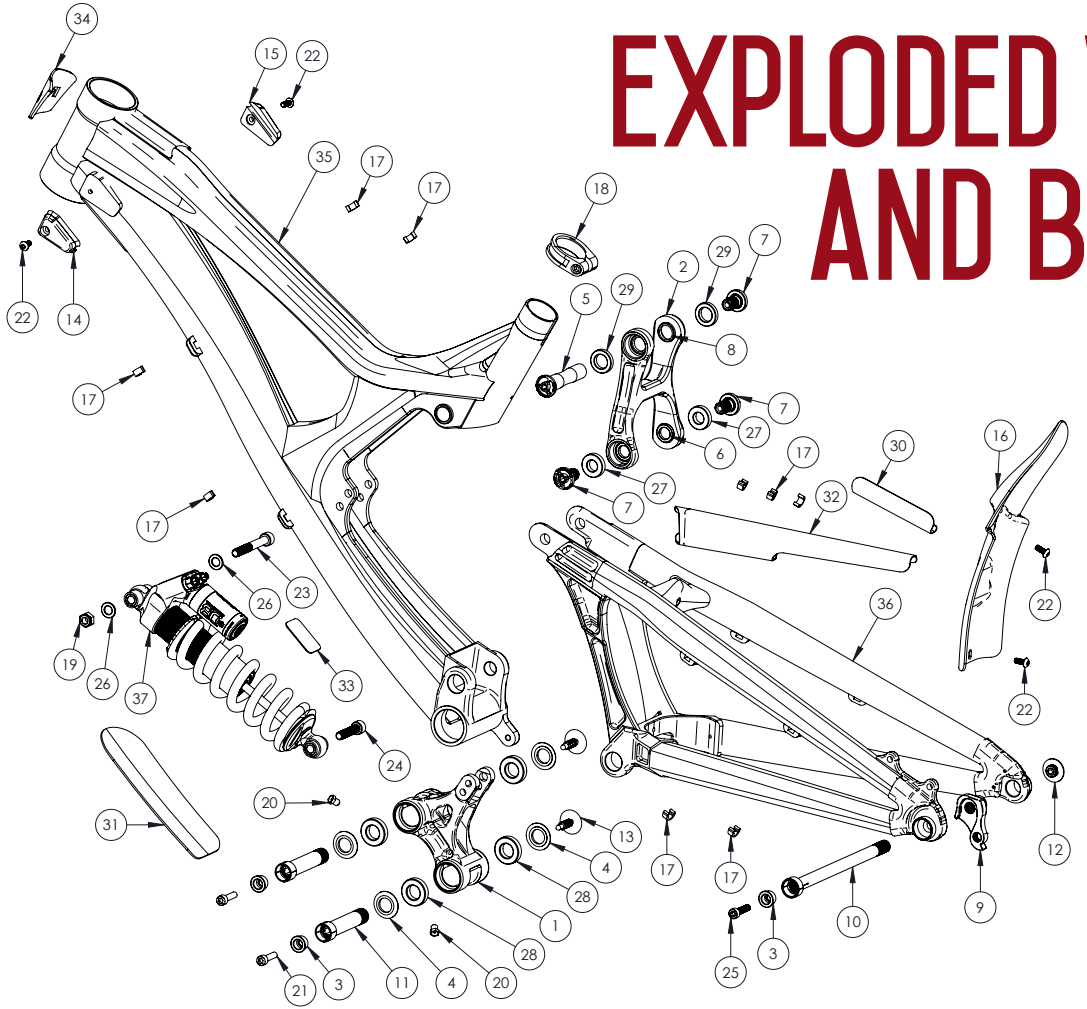
GEOMETRY NOTES

GEOMETRY TAKEN AT TOP OUT WITH 594MM FORK LENGTH AND 42MM FORK OFFSET.

COMPONENT SPEC NOTE

THE M16 IS DESIGNED AROUND THE USE OF A SINGLE CHAIN RING SET ONLY. 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	Box Link	130214	Forged Lower Link	1	N/A
2	Top Link	130215	Forged Top Link	1	N/A
3	Cone Adjuster	130777	Expander Cone	3	N/A
4	Bearing Cap	130778	Main Pivot Bearing Cap	4	N/A
5	Axle Upper	130780	Top Link Pivot Axle	1	20 Nm / 175 in-lbs
6	Washer	130784	Top Link Pivot, Lower Washer	2	N/A
7	Bolt Shoulder	130785	Top Link Pivot Bolt	3	20 Nm / 175 in-lbs
8	Spacer	130789	Top Link Pivot, Upper Spacer	2	N/A
9	Hanger	130790	Forged Derailleur Hanger	1	N/A
10	Rear Axle	130794	157 x 12mm Axle	1	11 Nm / 100 in-lbs
11	Bolt Main Pivot	130795	Main Pivot 1.5T Expander Bolt	2	7 Nm / 60 in-lbs
12	Hanger Bolt	130798	Rear Derailleur Hanger Bolt	1	11 Nm / 100 in-lbs
13	Plug	140004	Box Link Pivot Plug	2	N/A
14	Bumper	140009	Fork Bumper Left	1	N/A
15	Bumper	140010	Fork Bumper Right	1	N/A
16	Fender	140011	Rear Wheel Fender	1	N/A
17	Clip Plastic	310001	Snap-on Cable Guide Single	9	N/A
18	Seat Collar	346941	Bolt-on 36.1	1	N/A
19	M8 Nut	400005	Shock Bolt Nyloc Nut	1	16 Nm / 140 in-lbs
20	Zerk Fitting	401011	M6 x 1.0	2	5 Nm / 40 in-lbs
21	SHCS M6 x 22	410009	Cone Adjuster Bolt, Socket Head, M6 x 22	2	14 Nm / 125 in-lbs
22	BHCS M5 X 12	410010	Guide Bolt, Button Head, M5 X 12	4	6 Nm / 54 in-lbs
23	SHCS M8 x 60	410012	Shock Bolt Socket Head, M5 X 12	1	16 Nm / 140 in-lbs
24	SHCS M8 x 35	410038	Shock Bolt, Socket Head, M8 x 35	1	16 Nm / 140 in-lbs
25	SHCS M6 x 25	410039	Cone Adjuster Bolt, Socket Head, M6 x 25	1	14 Nm / 125 in-lbs
26	M8 Washer	420004	Shock Bolt Washer	2	N/A
27	Bearing 6901	430001	12 x 24 x 6 2RS Radial Bearing	2	N/A
28	Bearing 7902	430007	15 x 28 x 7 2RS MAX Angular Contact Bearing	4	N/A
29	Bearing 6802	430008	15 x 24 x 5 2RS MAX Radial Bearing	2	N/A
30	Guard Flack SS	500235	Flack Guard, M16 Seat Stay	1	N/A
31	Guard Flack DT	500236	Flack Guard, M16 Down Tube	1	N/A
32	Guard Flack CS	500238	Flack Guard, M16 Chain Stay	1	N/A
33	Decal	500300	Decal California Bear	1	N/A
34	Head Badge	500337	M16 Head Badge	1	N/A
35	Front Triangle		Aluminum, 3 sizes	1	N/A
36	Rear Triangle		Aluminum, 1 Size	1	N/A
37	Rear Shock		240mm x 76mm	1	N/A

ITEM	PART NUMBER	DESCRIPTION	FRAME SIZE USED ON
SHOCK	370335	Shock CCDB-C M16, 240 x 76 x 350	Small
SHOCK	370336	Shock CCDB-C M16, 240 x 76 x 400	Medium
SHOCK	370337	Shock CCDB-C M16, 240 x 76 x 450	Large

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
- 6MM HEX WRENCH
- 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 narrow end of top link (PART#130215); hold upper spacer (PART#130789) against inside of bearing race. Match upper linkage to pivot point on front triangle, making sure that spacers do not fall out (IMAGE #1). See exploded view for linkage orientation.

B Using upper pivot axle (PART #130780), insert through left (non-drive) side of top link, making sure spacers do not fall out. Thread shoulder bolt (PART # 130785) into upper pivot axle from opposite side of top link (IMAGE #2).

C Holding 5mm allen wrench on non-drive side upper pivot axle, insert torque wrench into shoulder bolt on drive side and tighten to 175 in/lb (IMAGE #3).

CONNECTING BOX LINK TO FRONT TRIANGLE //

A Hold bearing cap (PART #130778) with rounded edge facing outwards against bearings pressed into box link (PART #130214) (IMAGE #4).

B Match box link (PART # 130214) to front triangle pivot point and insert main pivot expander bolt (PART #130795) with greased threads through non-drive side of box link, holding bearing caps in place (IMAGE #5).

C Use 8mm allen to thread main pivot expander bolt into box link, and torque to 60 in/lb (IMAGE #6).

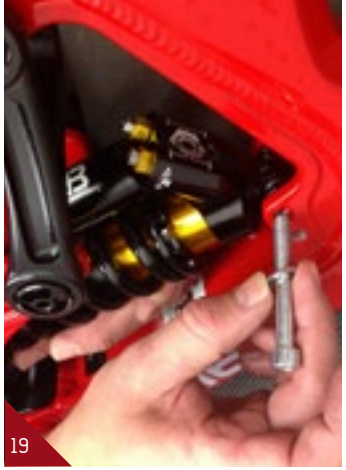
CONNECTING REAR TRIANGLE TO BOX LINK //

A Follow previous steps to connect rear triangle to box link (IMAGES #7-9).

INSTALLING ADJUSTER CONES //

A Grease and insert cone adjuster (PART #130777) into head of main pivot expander bolt (PART #130795) with M6x22mm bolt (PART #410009) inserted through cone adjuster (IMAGE #10 & #11).

B Tighten M6x22mm bolt (PART #410009) with 5mm allen and torque to 125 in/lb (IMAGE #12).



CONNECTING REAR TRIANGLE TO TOP LINK //

A Hold washer (PART #130784) against inside of lower top link mount, then bring rear triangle forward matching upper pivot point to top link (IMAGE #13).

B Match shoulder bolts (PART #130785) to top link and insert through linkage, threading bolts into the rear triangle while holding washer is in place between bearing and linkage (IMAGE #14 & #15).

C Tighten shoulder bolts to 175 in/lb (IMAGE #16).

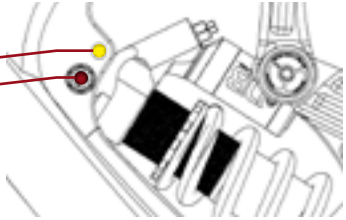
INSTALLING REAR SHOCK //

A Holding rear shock with reservoir above and forward, insert into frame with lower eyelet towards shock mount on box link, then bring forward shock eyelet to forward shock mount (IMAGE #17 & #18).

B Install forward M8x60mm shock mount bolt (#410012) with 8mm washer (#420004) on bolt head through drive side of frame to the desired progression setting (IMAGE #19).

SHOCK CURVE PROGRESSION

- UPPER MOUNT: MORE PROGRESSIVE
- LOWER MOUNT: LESS PROGRESSIVE



INSTALLING REAR SHOCK (CON'T) //

C Match second 8mm washer (PART #420004) to threads on non-drive side of forward shock mount bolt (PART #410013), then thread 8mm nut (PART #400005) on to forward shock mount bolt (IMAGE #20 & # 21).

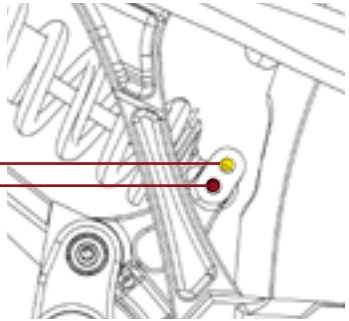
D Hold nut with 8mm wrench and tighten opposite side with 6mm allen to 140 in/lb (IMAGE #22).

E Match rear eyelet of shock to box link shock mount and thread bolt through top link at desired travel setting. Tighten with 6mm allen to 140 in/lb (IMAGE #23 & #24).

ADJUSTABLE TRAVEL

THE BOX LINK SHOCK MOUNT FEATURES DUAL MOUNTING POSITIONS WHICH ALLOW YOU TO CHOOSE BETWEEN 215MM AND 241MM OF REAR TRAVEL.

- UPPER MOUNT: 215MM
- LOWER MOUNT: 241MM




25


26


27


28


29

INSTALLING DERAILLEUR HANGER //

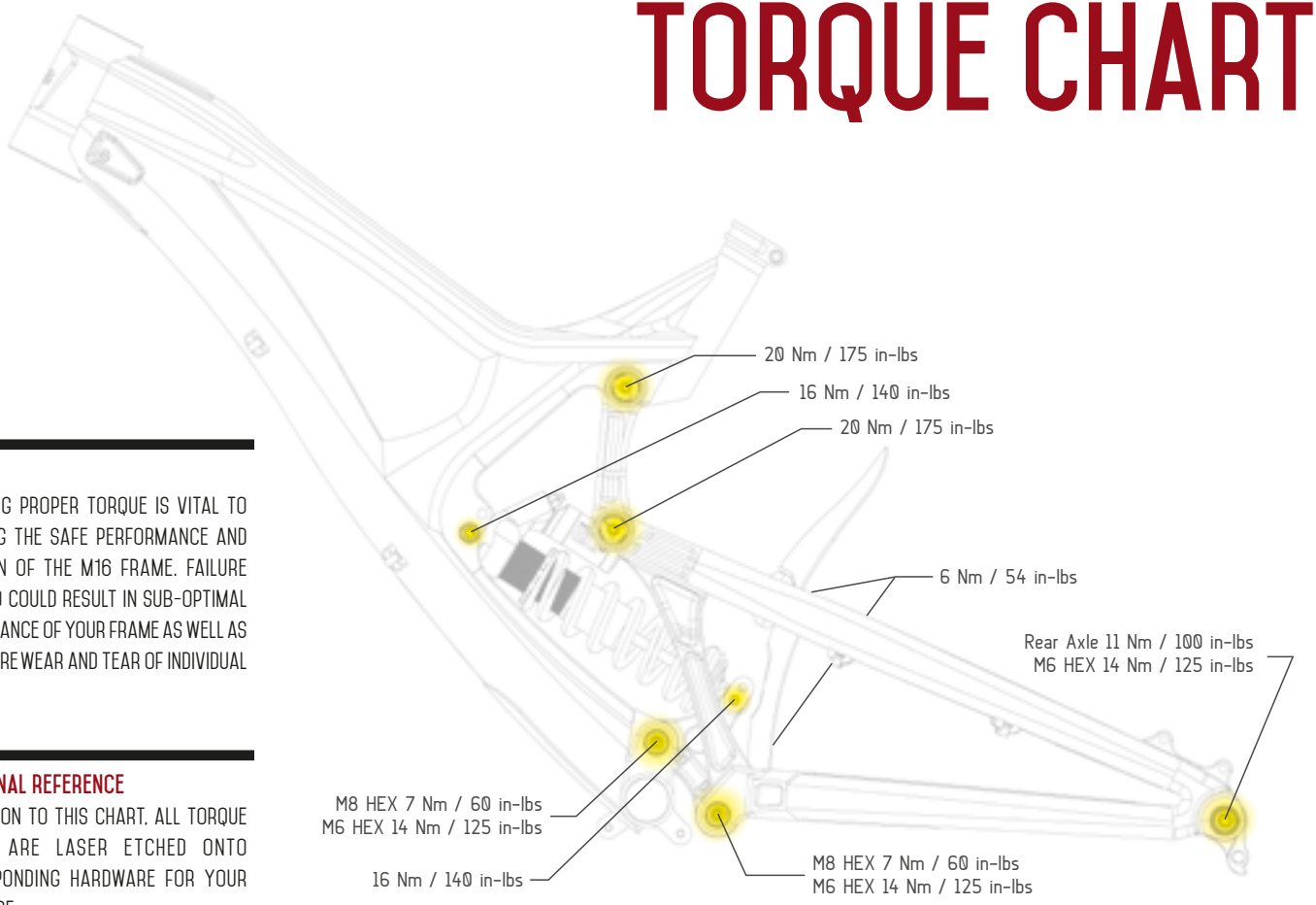
A Grease outer edges of derailleur hanger (#130790) and insert into frame from inside of rear triangle, matching hanger bolt (PART #130798) to hanger threads from the outside of the frame (IMAGE #25).

B Tighten hanger bolt using 6mm allen to 100 in/lb (IMAGE #26).

REAR AXLE INSTALLATION //

A The M16 uses a rear axle with an expanding collet system similar to our main pivot bolts. This ensures a secure fit between the axle and frame. To install rear axle, insert threaded end of axle through non-drive side dropout until it reaches female threaded end of hanger. You can then insert a 5mm allen through opening on the hanger bolt, which will allow you to tighten axle in a counter-clockwise (rearward) direction to 100 in/lb. You may then grease and install the cone adjuster into the opening on the non-drive side of the axle, then insert M6x25mm bolt into cone adjuster and tighten to 125 in/lb (AXLE IMAGES #27-29).

TORQUE CHART



TORQUE

ACHIEVING PROPER TORQUE IS VITAL TO ENSURING THE SAFE PERFORMANCE AND FUNCTION OF THE M16 FRAME. FAILURE TO DO SO COULD RESULT IN SUB-OPTIMAL PERFORMANCE OF YOUR FRAME AS WELL AS PREMATURE WEAR AND TEAR OF INDIVIDUAL PARTS.

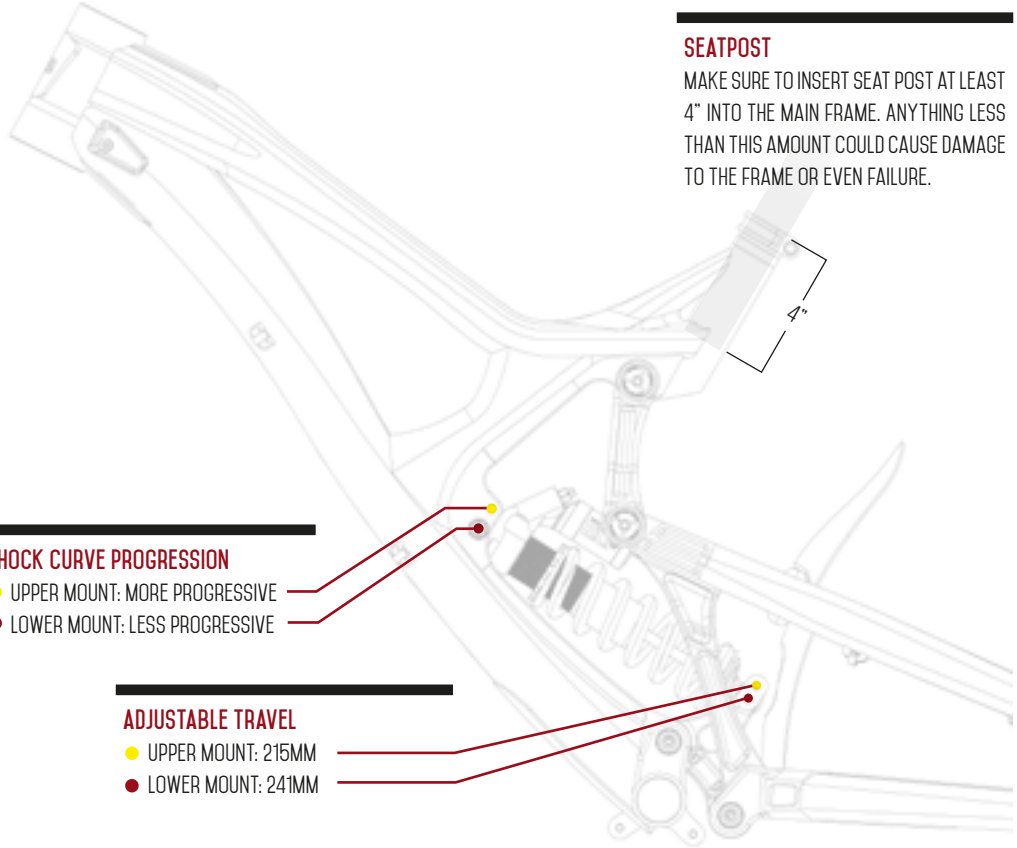
ADDITIONAL REFERENCE

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.



SHOCK CURVE PROGRESSION

- UPPER MOUNT: MORE PROGRESSIVE
- LOWER MOUNT: LESS PROGRESSIVE

ADJUSTABLE TRAVEL

- UPPER MOUNT: 215MM
- LOWER MOUNT: 241MM

SHOCK SETUP

CANE CREEK DB COIL 241 X 76MM (9.5" X 3.0")

SET UP AND TUNE

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

NOTE

COIL SPRINGS STOCKED IN 50 LB. INCREMENTS FROM 350 TO 500

CANE CREEK

SHOCK SAG	SHOCK STROKE	FORK SAG
35% when sitting on the bike	76 mm (3.0")	25-30% when sitting on the bike

TRAVEL 216 MM (8.5") RIDER WEIGHT (LBS/KGS)	SPRING WEIGHT (LBS)	TRAVEL 241 MM (9.5") RIDER WEIGHT (LBS/KGS)
140 LBS / 64 KGS	350	140 LBS / 64 KGS
150 LBS / 68 KGS		150 LBS / 68 KGS
160 LBS / 73 KGS		160 LBS / 73 KGS
170 LBS / 77 KGS		170 LBS / 77 KGS
180 LBS / 82 KGS	400	180 LBS / 82 KGS
190 LBS / 86 KGS		190 LBS / 86 KGS
200 LBS / 91 KGS		200 LBS / 91 KGS
210 LBS / 95 KGS	450	210 LBS / 95 KGS
220 LBS / 100 KGS		220 LBS / 100 KGS
230 LBS / 104 KGS	500	230 LBS / 104 KGS
240 LBS / 109 KGS		240 LBS / 109 KGS
250 LBS / 113 KGS		250 LBS / 113 KGS
260 LBS / 118 KGS		260 LBS / 118 KGS
270 LBS / 122 KGS		270 LBS / 122 KGS

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 ensure the bike is safe to ride at all levels. It is important to 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.

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.

WWW.INTENSECYCLES.COM

PHONE: (951)-296-9596
CUSTOMER SERVICE: CS@INTENSECYCLES.COM
GENERAL INFO: INFO@INTENSECYCLES.COM
MEDIA, MARKETING, SPONSORSHIP: MARKETING@INTENSECYCLES.COM

INTENSE CYCLES USA 42380 RIO NEDO TEMECULA, CA. 92590