

133347



# **HABIT/BAD HABIT**

OWNER'S MANUAL SUPPLEMENT

**cannondale**

## ABOUT THIS SUPPLEMENT

Cannondale Owner's Manual Supplements provide important model specific safety, maintenance, and technical information. They are not replacements for your Cannondale Bicycle Owner's Manual.

This supplement may be one of several for your bike. Be sure to obtain and read all of them.

If you need a manual or supplement, or have a question about your bike, please contact your Cannondale Dealer immediately, or call us at one of the telephone s listed on the inside cover of this supplement.

You can download Adobe Acrobat PDF versions of any Cannondale Owner's Manuals or Supplements from our website: [www.cannondale.com](http://www.cannondale.com)

Please note that the specifications and information in this manual are subject to change for product improvement. For the latest product information, go to [www.cannondale.com](http://www.cannondale.com)

## EXPLICIT DEFINITIONS

In this supplement, particularly important information is presented in the following ways:

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### NOTICE

Indicates special precautions that must be taken to avoid damage.

## CONTENTS

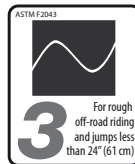
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## YOUR CANNONDALE DEALER

To make sure your bike is serviced and maintained correctly, and that you protect applicable warranties, please coordinate all service and maintenance through your authorized Cannondale Dealer.

### NOTICE

Unauthorized service, maintenance, or repair parts can result in serious damage and void your warranty.



The intended use of all models is ASTM CONDITION 3, Cross-Country.

# SAFETY INFORMATION

## IMPORTANT COMPOSITES MESSAGE

 **WARNING**

Your bike (frame and components) is made from composite materials also known as “carbon fiber.”

All riders must understand a fundamental reality of composites. Composite materials constructed of carbon fibers are strong and light, but when crashed or overloaded, carbon fibers do not bend, they break.

For your safety, as you own and use the bike, you must follow proper service, maintenance, and inspection of all the composites (frame, stem, fork, handlebar, seat post, etc.) Ask your Cannondale Dealer for help.

We urge you to read PART II, Section D. “Inspect For Safety” in your Cannondale Bicycle Owner’s Manual BEFORE you ride.

**YOU CAN BE SEVERELY INJURED, PARALYZED OR KILLED IN AN ACCIDENT IF YOU IGNORE THIS MESSAGE.**

## INSPECTION & CRASH DAMAGE OF CARBON FRAMES/FORKS

 **WARNING**

**AFTER A CRASH OR IMPACT:**

Inspect frame carefully for damage (See PART II, Section D. Inspect For Safety in your Cannondale Bicycle Owner’s Manual. )

Do not ride your bike if you see any sign of damage, such as broken, splintered, or delaminated carbon fiber.

**ANY OF THE FOLLOWING MAY INDICATE A DELAMINATION OR DAMAGE:**

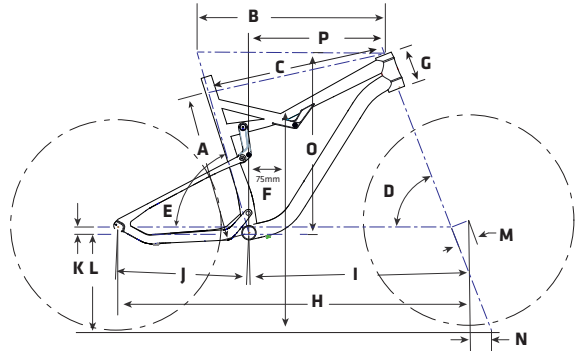
- An unusual or strange feel to the frame
- Carbon which has a soft feel or altered shape
- Creaking or other unexplained noises,
- Visible cracks, a white or milky color present in carbon fiber section

**CONTINUING TO RIDE A DAMAGED FRAME INCREASES THE CHANCES OF FRAME FAILURE, WITH THE POSSIBILITY OF INJURY OR DEATH OF THE RIDER.**

# TECHNICAL INFORMATION

## GEOMETRY

- A** SEAT TUBE LENGTH (CM/IN)  
**B** TOP TUBE HORIZONTAL (CM/IN)  
**C** TOP TUBE ACTUAL (CM/IN)  
**D** HEAD TUBE ANGLE  
**E** SEAT TUBE ANGLE EFFECTIVE  
**E'** SEAT TUBE ANGLE ACTUAL  
**F** STANDOVER (CM/IN)  
**G** HEAD TUBE LENGTH (CM/IN)  
**H** WHEELBASE (CM/IN)  
**I** FRONT CENTER (CM/IN)  
**J** CHAIN STAY LENGTH (CM/IN)  
**K** BOTTOM BRACKET DROP (CM/IN)  
**L** BOTTOM BRACKET HEIGHT (CM/IN)  
**M** FORK RAKE (CM/IN)  
**N** TRAIL (CM/IN)  
**O** STACK (CM/IN)  
**P** REACH (CM/IN)



### HABIT WOMEN'S

	PT	SM	MD		PT	SM	MD		PT	SM	MD	
<b>A</b>	37.0/14.6	40.0/15.7	44.0/17.3		<b>F</b>	69.2/27.2	72.2/28.4	74.1/29.2	<b>L</b>	33.4/13.1	★	★
<b>B</b>	52.9/20.8	56.2/22.1	59.4/23.4		<b>G</b>	9.7/3.8	★	11.0/4.3	<b>M</b>	5.0/2.0	★	★
<b>C</b>	51.4/20.2	54/21.3	57/22.4		<b>H</b>	106.8/42.0	110.1/43.3	113.4/44.7	<b>N</b>	8.5/3.4	★	★
<b>D</b>	68°	★	★		<b>I</b>	63.7/25.1	67.0/26.4	70.3/27.7	<b>O</b>	57.0/22.4	★	58.2/22.9
<b>E</b>	74.0°	★	★		<b>J</b>	42.9/16.9	★	★	<b>P</b>	36.6/14.4	39.9/15.7	42.7/16.8
<b>E'</b>	72.2°	★	★		<b>K</b>	1.9/0.7	★	★				

### HABIT

	SM	MD	LG	XL
<b>A</b>	40.0/15.7	44.0/17.3	48.0/18.9	52.0/20.5
<b>B</b>	56.2/22.1	59.4/23.4	62.0/24.4	65.0/25.6
<b>C</b>	54/21.3	57/22.4	59.6/23.5	62.9/24.8
<b>D</b>	68.0°	★	★	★
<b>E</b>	74.0°	★	★	★
<b>E'</b>	72.2°	★	★	★
<b>F</b>	72.2/28.4	74.1/29.2	74.3/29.3	75.3/29.6
<b>G</b>	9.7/3.8	11.0/4.3	12.2/4.8	13.4/5.3
<b>H</b>	110.1/43.3	113.4/44.7	116.1/45.7	119.3/47.0
<b>I</b>	67.0/26.4	70.3/27.7	73.0/28.7	76.1/30.0
<b>J</b>	42.9/16.9	★	★	★
<b>K</b>	1.9/0.7	★	★	★
<b>L</b>	33.4/13.1	★	★	★
<b>M</b>	5.0/2.0	★	★	★
<b>N</b>	8.5/3.4	★	★	★
<b>O</b>	57.0/22.4	58.2/22.9	59.4/23.4	60.5/23.8
<b>P</b>	39.9/15.7	42.7/16.8	45.0/17.7	47.7/18.8

### HABIT SE

	SM	MD	LG	XL
<b>A</b>	40.0/15.7	44.0/17.3	48.0/18.9	52.0/20.5
<b>B</b>	56.2/22.1	59.4/23.4	62.0/24.4	65.0/25.6
<b>C</b>	54/21.3	57/22.4	59.6/23.5	62.9/24.8
<b>D</b>	67.5°	★	★	★
<b>E</b>	74°	★	★	★
<b>E'</b>	72.2°	★	★	★
<b>F</b>	72.7/28.6	74.6/29.4	74.8/29.4	75.8/29.8
<b>G</b>	9.7/3.8	11.0/4.3	12.2/4.8	13.4/5.3
<b>H</b>	110.2/43.4	113.5/44.7	116.3/45.8	119.4/47.0
<b>I</b>	67.1/26.4	70.4/27.7	73.1/28.8	76.2/30.0
<b>J</b>	42.9/16.9	★	★	★
<b>K</b>	1.9/0.7	★	★	★
<b>L</b>	33.4/13.1	★	★	★
<b>M</b>	5.0/2.0	★	★	★
<b>N</b>	8.9/3.5	★	★	★
<b>O</b>	57.7/22.7	58.9/23.2	60.1/23.6	61.2/24.1
<b>P</b>	39.1/15.4	42.0/16.5	44.2/17.4	46.9/18.5

### BAD HABIT

	SM	MD	LG	XL
<b>A</b>	40.0/15.7	44.0/17.3	48.0/18.9	52.0/20.5
<b>B</b>	56.2/22.1	59.4/23.4	62.0/24.4	65.0/25.6
<b>C</b>	54/21.3	57/22.4	59.6/23.5	62.9/24.8
<b>D</b>	68°	★	★	★
<b>E</b>	74°	★	★	★
<b>E'</b>	72.2°	★	★	★
<b>F</b>	72.9/28.7	74.8/29.4	75.0/29.5	76.0/29.9
<b>G</b>	9.7/3.8	11.0/4.3	12.2/4.8	13.4/5.3
<b>H</b>	111.1/43.7	114.4/45.0	117.1/46.1	120.2/47.3
<b>I</b>	67.2/26.4	70.5/27.8	73.2/28.8	76.3/30.1
<b>J</b>	44.3/17.4	★	★	★
<b>K</b>	3.3/1.3	★	★	★
<b>L</b>	33.4/13.1	★	★	★
<b>M</b>	5.5/2.2	★	★	★
<b>N</b>	9.1/3.6	★	★	★
<b>O</b>	58.3/23.0	59.5/23.4	60.7/23.9	61.8/24.3
<b>P</b>	38.6/15.2	41.5/16.3	43.7/17.2	46.4/18.3

★ INDICATES SAME AS PREVIOUS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## SPECIFICATIONS

Headtube	Cannondale Si (see also Replacement Parts for conversion kits)
Rear Travel	120mm
Rear Shock	SAG: 30%, 36mm
	EYE-TO-EYE: 184mm (7.25")
	STROKE: 44.5mm (1.75")
	REDUCERS: F = 37.59mm (1.480") x 8mm, R = 30mm (1.180") x 8mm
BB Shell/ Width	ALLOY: BB30/73mm, CARBON: PF30/73mm
Seat Post Diameter/Binder	31.6/34.9mm
Front Derailleur	S3 Direct Mount
Dropout Spacing	142x12mm Maxle
Rear Brake	Flat mount, 20mm Bolt



### WARNING

Please read your **Cannondale Bicycle Owner's Manual** for more information on the following specifications:

Intended Use	ASTM CONDITION 3, Cross-Country, Marathon, Hardtails.		
Maximum Tire Width	BAD HABIT: 27.5 x 3.0in, HABIT: 27.5 x 2.35in		
Maximum Fork Length	525 mm		
Minimum Seat Post Insert	100 mm		
Maximum Weight Limit (Lbs/Kg)	<b>RIDER</b>	<b>LUGGAGE*</b>	<b>TOTAL</b>
*(Seat Bag Only)	300 / 136	5 / 2.3	305 / 138

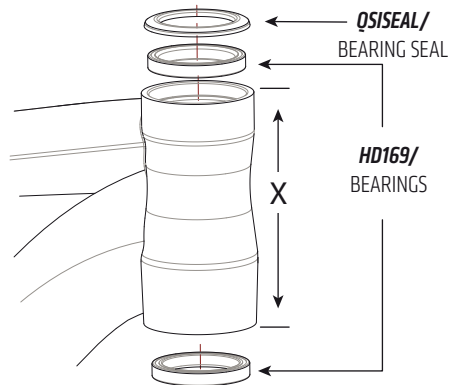
## INTEGRATED HEADTUBE

In carbon models, cups are bonded within the head tube. Cannondale Headshok System Integration bearings are accepted directly into both type.

**For 1.5" and 1 1/8" adapter headsets, see Replacement Parts.**

### NOTICE

Do not face, surface, or cut the head tube bearing cups. When removing adapters, bearings, or cup from, extra care must be used so that the tool used to drive out the bearing is not located on any part a bonded cup.



FRAME SIZE	HEADTUBE LENGTH (X)
SM	97mm
MD	109mm
LARGE	122mm
X-LARGE	134mm

## TIGHTENING TORQUES

Correct tightening torque for the fasteners (bolts, screws, nuts) on your bicycle is very important to your safety, the durability and performance of your bicycle. We urge you to have your Dealer correctly torque all fasteners using a torque wrench. If you decide to tighten fasteners yourself always use a good torque wrench!

Description	Nm
Shock Mounting Bolts	12
Pivot Axles	1.0 - axle
Main Pivot	3.0 - wedge
Rear Derailleur Hangar Screw	1.1
Housing Guides (Maximum)	3.0

## TIRE INFLATION - FRAME CLEARANCE (BAD HABIT)

### Tire Sidewall Markings and Frame Clearance

Even a tire, inflated within the manufacturer's specified range (as marked on the side-wall) could result in a tire dimensions becoming larger than a frame is designed to fit. This may be true even with a tire sidewall marking compatible with the indicated MAXIMUM TIRE SIZE for your bike.

BAD HABIT - Tire/Rim/Frame Maximum Pressure Limit*
3.0" tires - maximum tire Inflation - 25psi
2.8" tires - maximum tire Inflation - 35psi

\* For OE (originally equipped) rims/tires.

**You can adjust the inflation pressure downward staying within the tire and rim manufacturer's range. Ask your Cannondale Dealer for help.**

## **HABIT CARBON BOTTOM BRACKET - PRESSFIT BB30**

Carbon frames have a 46 mm I.D. bottom bracket bearing system press interface. The shell width is 73mm.

### **Maintenance**

In general, you should inspect the condition of the bearings annually (at a minimum) or anytime the crankset assembly is disassembled, serviced, or if a problem is indicated.

To inspect, when the crankset is removed, rotate the inner bearing race of both bearings; rotation should be smooth, and quiet. Excessive play, roughness or corrosion indicates a damaged bearing.

### **Removal**

To avoid serious damage to the frame, it is important to remove bearing systems very carefully using proper tools indicated by the manufacturer's service instructions. Make sure the bearings (cup or adapter parts) are driven out squarely and evenly from inside the shell!!! Do not pry components from shell.

### **Replacement**

PressFit BB30 bearings are not removable from the adapters or cup systems that are pressed into the frame bottom bracket shell. Therefore, damaged bearings must be removed and replaced as new entire sets. Before installing any new bearing units into the shell, thoroughly clean the inside surface of the bottom bracket shell with a clean dry shop towel. Also, make sure both bearing units and the BB shell surfaces are clean and dry. Do not apply grease to either.

Follow the manufacturer's instruction for assembly and installation of the bearing system. Use a headset press such as Park Tool HHP-2. See <http://www.parktool.com/product/bearing-cup-press-HHP-2> Select appropriate press and adapters to ensure that force is only applied to the cup and not the bearing inside. Press until the both cup flanges are mated to the BB shell edge.

### **NOTICE**

Consult with your Cannondale Dealer on the quality and compatibility of any proposed replacement component.

Make sure the PRESSFIT BB30 system is intended for use with with a 46 mm I.D. BB shell.

Confirm actual part dimensions with a micrometer.

Do not use chemical solvents to clean. Do not remove frame material or use surfacing tools on bottom bracket shell.

Frame damage, caused by improper components, component installation or removal is not covered by your warranty.

# HABIT / BAD HABIT ALLOY

## BOTTOM BRACKET - BB30

The bottom bracket shell is compatible with the BB30 Standard. See <http://www.bb30standard.com/>.

### **Maintenance**

Inspect bearing condition annually (at a minimum) and anytime the crankset assembly is disassembled or serviced. With the crankset removed, rotate the inner bearing race of both bearings; rotation should be smooth. No play or movement inside the shell. If the bearing is damaged, replace both bearings with new ones.

### **Bearing Removal**

Remove the old bearings with the bearing removal tool **KT011/**.

### **Bearing Installation**

To install bearings, use a headset press and Cannondale tool **KT010/**. Clean inside of shell apply a high-quality bicycle bearing grease to the inside surface. Press bearing one at a time. Press each bearing until seated. Following installation, apply a light coating of a high-quality bicycle bearing grease to both sides of each bearing to help repel moisture.

Do not re-use removed bearings. Install both bearings as a new set.

### **NOTICE**

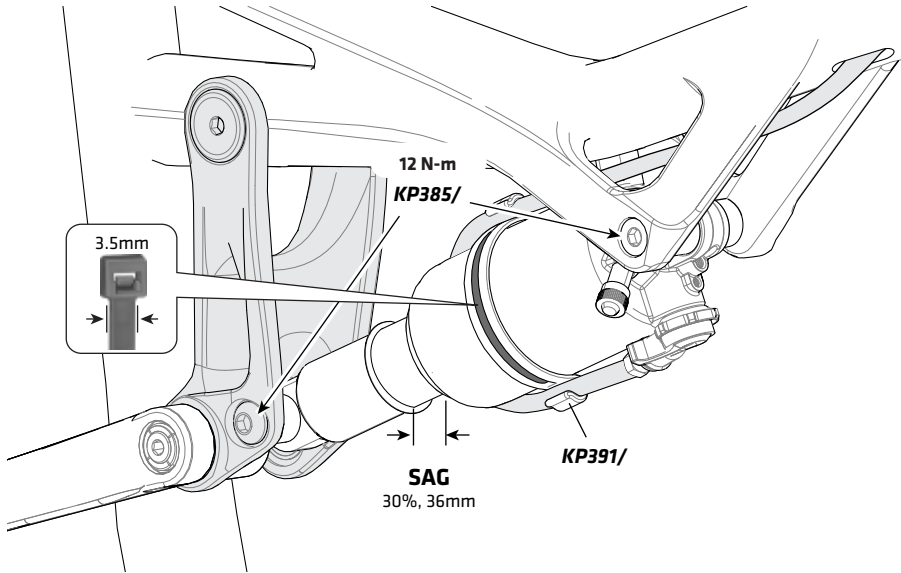
**BEARINGS** - Frequent or routine renewal of undamaged bearings is not recommended. Repeated removal and reinstallation can damage the inside BB shell surfaces resulting in poor bearing fit. Do not face, mill or machine the bottom bracket shell for any reason. Doing so can result in serious damage and possibly a ruined bike frame.

**Do not cut, face, or use abrasives to clean the inside if the BB shell.**

We strongly recommend that these procedures be performed by an Authorized Cannondale Dealer. Damage caused by improper installation/removal is not covered under your warranty.



## REAR SHOCK



<b>SAG</b>	30% (36mm)
<b>EYE-TO-EYE</b>	184mm (7.25")
<b>STROKE</b>	44.5mm (1.75")
<b>REDUCERS</b>	F = 37.59mm (1.480") x 8mm R = 30mm (1.180") x 8mm

### Set-Up

1. Set the air pressure according to for you body weight. Follow the shock manufacturer's instruction for pressurizing the shock.
2. Slide the O-ring against the shock wiper seal.
3. Sit on the bike in a normal riding position with your hands on the handlebar and feet on the pedals so that your weight compresses the rear shock.
4. Measure the SAG. Adjust the air pressure in the shock to achieve the correct SAG measurement.

Add air to decrease sag.

Release air to increase sag.

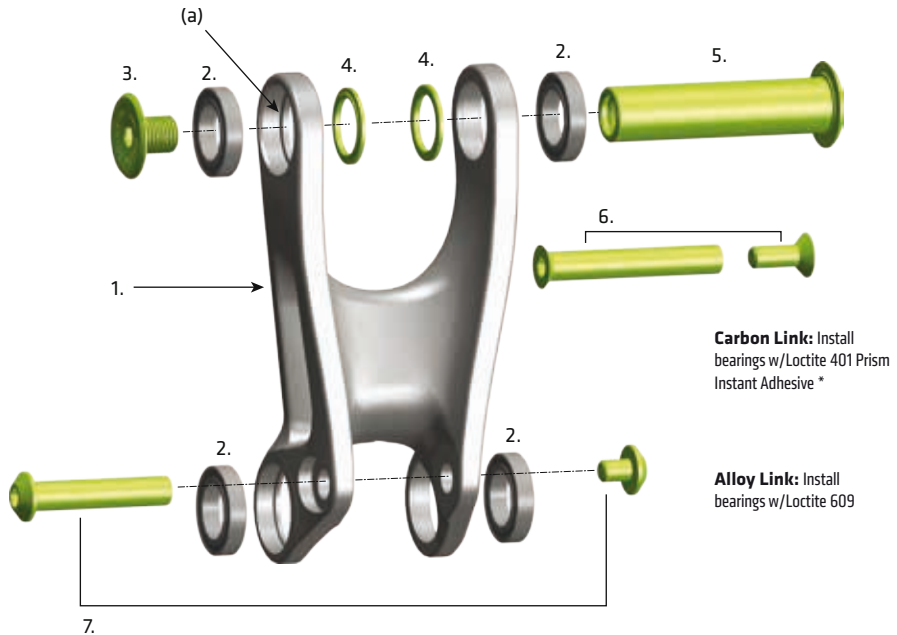
**Recommended Sag 30% - 36mm**

### **WARNING**

**SELECT ONLY COMPATIBLE SHOCKS AND FORKS FOR YOUR BIKE. DO NOT MODIFY YOUR BIKE IN ANY WAY TO MOUNT ONE. HAVE YOUR SHOCK OR FORK INSTALLED BY A PROFESSIONAL BIKE MECHANIC**

- Riding with the wrong rear shock can damage the frame. You could have a serious accident. Make sure the total travel, eye-to-eye length, and stroke length of the rear shock you select meet the **SPECIFICATIONS** listed in this manual.
- When selecting different shocks or forks for your bike, make sure that the shock or fork you select is compatible with your bike's design and how you will use your bike.

## SHOCK LINK



1.	Shock Link
2.	Bearing 4X
3.	Frame Pivot Bolt

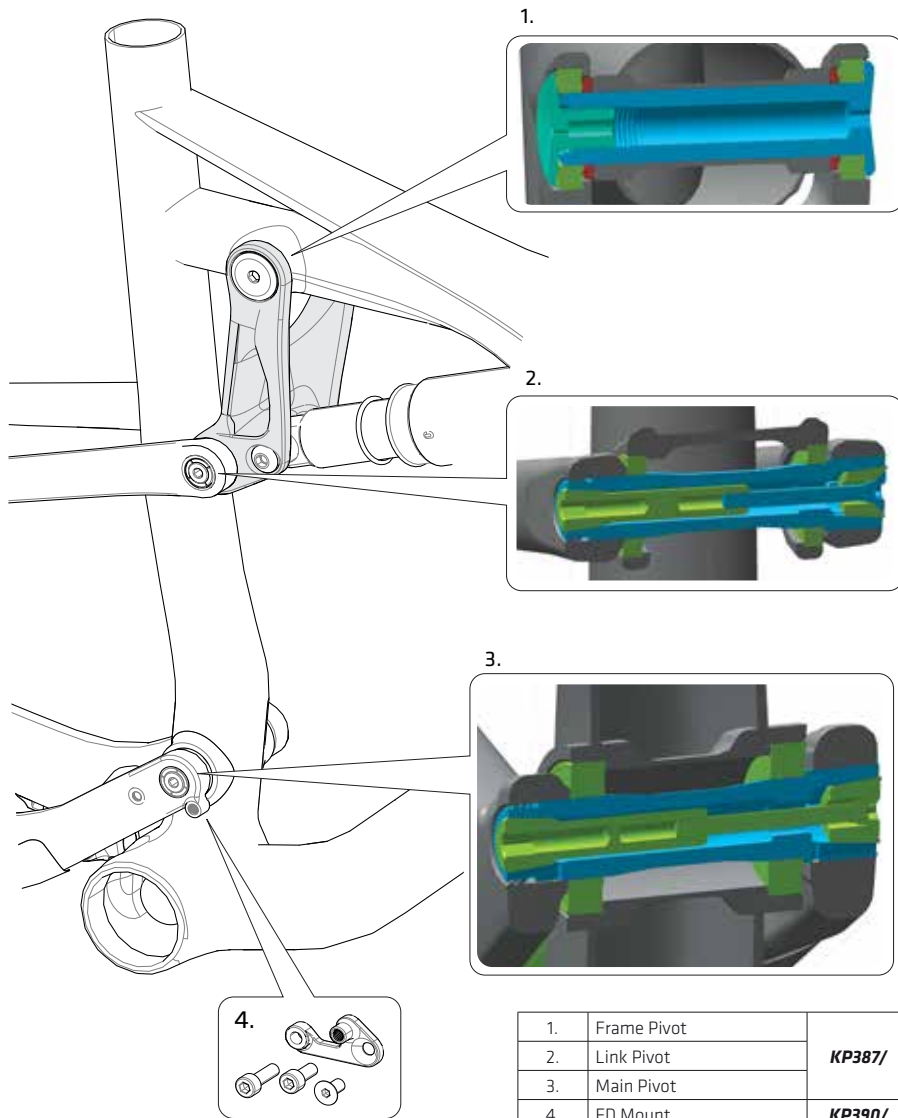
4.	Spacers 2X
5.	Frame Pivot
6. & 7.	Shock Mounting Bolts - <b>KP385/</b>

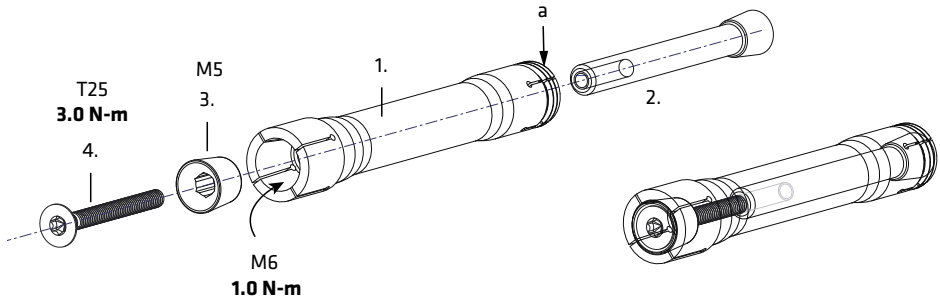
## Composite Link Bearing Installation

1. Clean outer race of all bearings and link bearing bores with denatured alcohol and clean cloth to remove any oil or contamination
2. Apply a thin bead of Loctite 401 Prism Instant Adhesive \* around inside of a bearing bore near the outer edge of the bore.
3. Insert a bearing into the bore with adhesive and ensure it is fully seated on the lip (a) in the bore.
4. Ensure bearing is fully seated in bore.
5. Repeat steps 3-5 for the remaining 3 bearings.
- 76 Confirm that all 4 bearings are fully seated in each bore.
7. After 45 seconds the adhesive will cure enough for handling
8. Wait a 5 minutes before installing link in frame

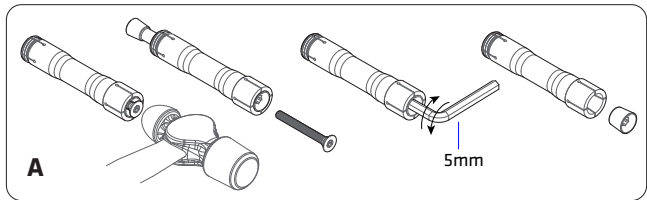
**\* Required, no substitutions**

**PIVOT AXLES**





Clean and apply light grease to all parts.



## Installation

Be sure to inspect the parts for any burrs, scratches or other damage before assembly. Replace the complete axle assembly if any damage is found.

- Apply a high-quality bearing grease to all the parts of the assembly before installing into the linkage. Be sure to coat all threads, wedge surfaces and expansion areas.
- Be sure to use the correct length axle and screw for the specific location. See above.
- Insert the axle (1) into the link from the non-drive side, and tighten it with an 6mm hex to 1.0Nm. Do not over-tighten.
- Insert the threaded wedge (2) into the drive side of the axle and insert the other wedge (3) and screw (4) opposite and tighten screw with a T25 Torx to 3.0Nm.

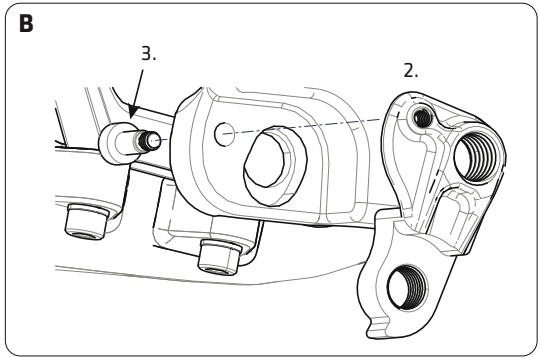
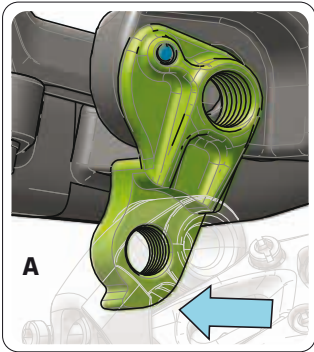
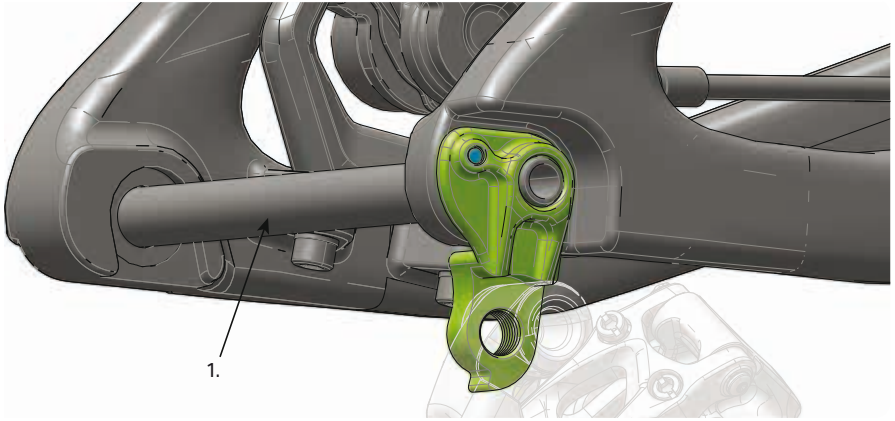
## Removal

The axle removal technique is shown removed from for clarity. See inset A.

### Steps:

- A. Loosen the screw (4) 4-6 turns using a T25 Torx key.
  - B. Tap head of M4 screw (4) to un-seat threaded wedge (2).
- Remove M4 screw (4) and threaded wedge (2) from the axle (1).
- C. Insert a 5mm hex key to twist the wedge (3) free and remove it (shown). If stuck, insert the long side of a 6mm HEX key (non-ball end) from the threaded end of axle and tap it out.
  - D. Insert a 6mm hex key into the axle and turn counter-clockwise until it can be removed.

**REAR DERAILLEUR HANGER - KP381/**



**Wheel Removal**

Once the rear axle is removed, the hanger (2) and attached rear derailleur will pivot down and back slightly to enable easier removal of the rear wheel. See inset A.

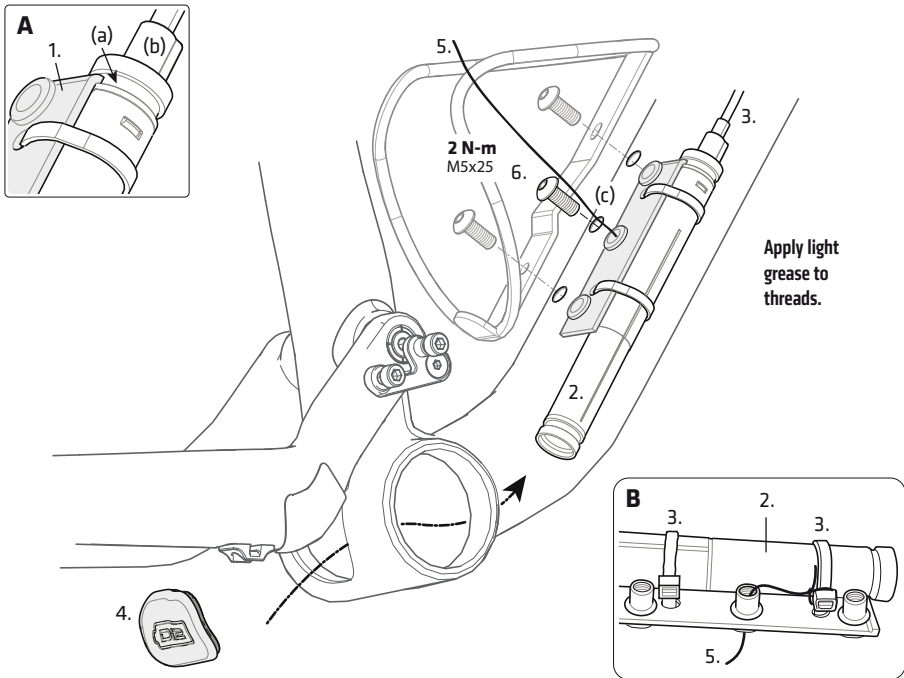
**Hanger Replacement**

Hanger replacement kit is available as Cannondale kit **KP381/**.

The kit includes the hanger (2) and a new pivot bolt (3). Before installing a new hanger, be sure to clean any dirt or debris on the dropout with a nylon brush (old toothbrush). Inspect the area for any damage. Lightly grease the dropout surface. Apply Loctite 242 (blue) to the pivot bolt (3). Align the hanger on the opposite side of the dropout and tighten the bolt to the specified torque.

## SHIMANO Di2 Kit - KP383/

For Di2, use the seat post type battery (Shimano SM-BTR2). It is positioned inside the downtube on carbon frames. Install with BB removed.



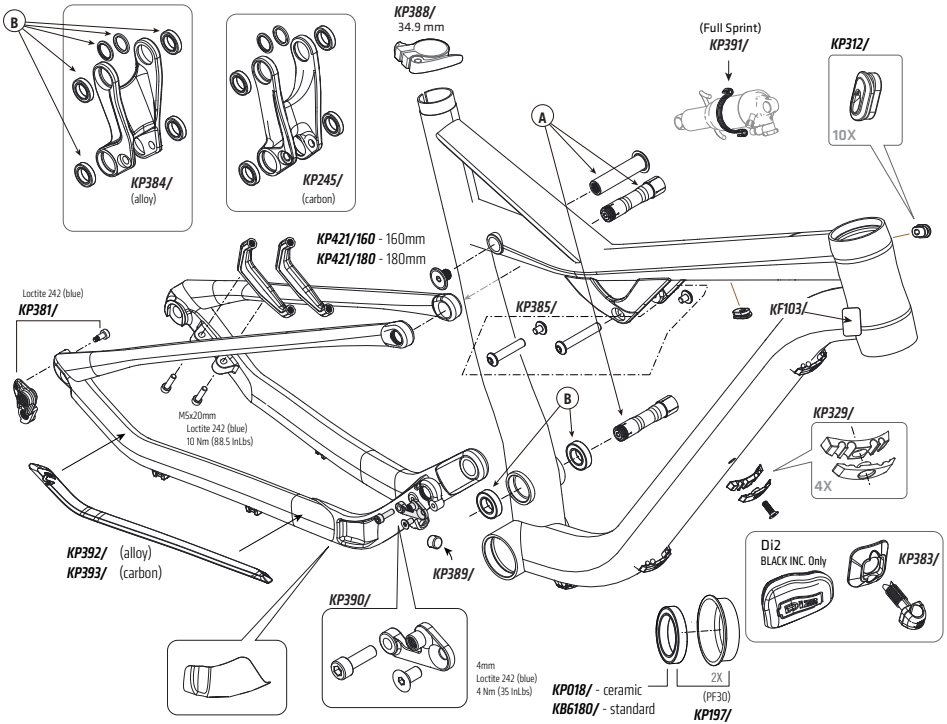
### Battery Installation

1. Attach mounting plate (1) included in Cannondale kit **KP383/** to the battery (2) using two plastic ties (3). Make sure the plate lip (a) is aligned with the case groove on the battery nearer the cable connection (b). See inset A.
2. Remove the rubber cover (4) from the rear of the bottom bracket.
3. Use thin dental string (5) through the middle hole (c) in the downtube out through the opening in the rear of the bottom bracket. Tie it to the battery and plate so that you can use the string to draw the battery into the downtube. See inset B.
4. Holding the string (5) taut, apply grease to the screw (6) threads and tighten to 2 N-m. The screw threads should cut the string so it can be removed.
5. Install the bottle cage and tighten the screws to 2 N-m. **Even, if a bottle cage is not used, install the screws.**
6. Replace the cover.

#### NOTICE

Periodically, check for proper tightness of the mounting screws. Use a torque wrench. Do not over-tighten.

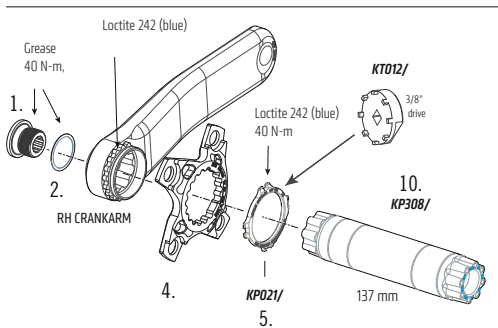
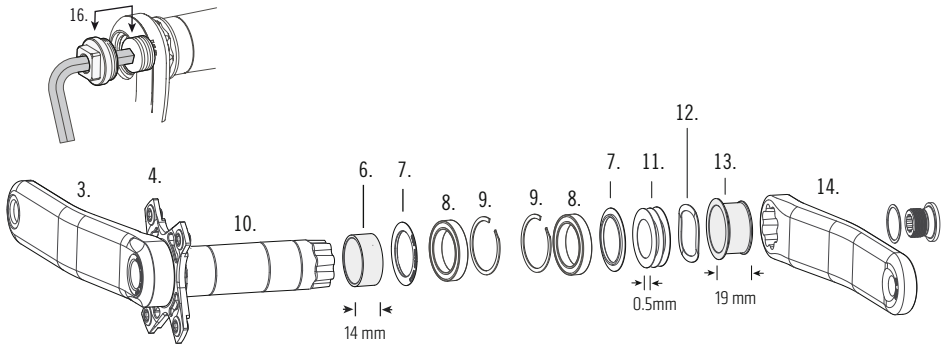
# REPLACEMENT PARTS



CODE	DESCRIPTION	CRB	ALLOY
KP381/	KIT, DER HANGER, HABIT, MAXLE	X	X
KP329/	KIT, CABLE GUIDE, MECHANICAL	X	X
KP383/	KIT, CABLE GUIDE, DI2	X	X
KP384/	KIT, LINK, HABIT, W/ BEARING SM/XL		X
KP385/	KIT, HWARE, SHOCK MOUNT, HABIT	X	X
Ⓐ KP387/	KIT, LINK, HWARE HABIT		
Ⓑ KP386/	KIT, BEARINGS, PIVOT, HABIT	X	X
KP388/	KIT, SEATBINDER, MOUNTAIN, 34.9	X	X
KP389/	KIT, FT DER, SWIVEL STOP	X	X
KP390/	KIT, MOUNT, FT DER, HABIT	X	X
KP391/	KIT, CABLE CLIP, FULL SPRINT HABIT	X	X

CODE	DESCRIPTION	CRB	ALLOY
KP392/	KIT, CH. STAY PROTECT HABIT ALLY		X
KP393/	KIT, CH. STAY PROTECTOR HABIT CRB	X	
HD169/	KIT BEARINGS HEADSET 2 HSHOK	X	X
QSISEAL/	KIT, SEAL, UPPER BEARING, 58mm OD	X	X
KP119/	KIT HEADSET INT HSHOK TO 1.5"	X	X
KP058/	KIT HEADSET INT HEADSHOK 1 1/8	X	X
KP205/	KIT HEADSET INT H SHOK TO TAPER	X	X
KF115/	KIT GEL DYNAMIC CARBN SEATPOST	X	X
KP197/	KIT BEARING BB-PRESSFIT 30	X	X
KB6180/	KIT BEARING BB 51 2PCS	X	X
KP421/160	KIT, BRAKE MOUNT, FLAT, 160MM	X	X
KP421/180	KIT, BRAKE MOUNT, FLAT, 180MM	X	X
KF103/	KIT GUARD SCUFFGUARD 8PK	X	X

# SI HOLLOWGRAM MTN



RIGHT CRANKARM - 3			
TYPE	SISL2	HOLLOW-GRAM SI	CANNONDALE SI
165mm	--	--	KP423/165R
170mm	KP246/170R	KP305/170R	KP423/170R
172mm	KP246/172R	KP305/172R	KP423/172R
175mm	KP246/175R	KP305/175R	KP423/175R

LEFT CRANKARM - 14			
TYPE	SISL2	HOLLOW-GRAM SI	CANNONDALE SI
165mm	--	--	KP423/165L
170mm	KP246/170L	KP305/170L	KP423/170L
172mm	KP246/172L	KP305/172L	KP423/172L
175mm	KP246/175L	KP305/175L	KP423/175L

NO. (QTY)	CODE	DESCRIPTION
1(2), 2(2)	KP251/BLK	KIT,CRANK BOLTS,H-GRAM SL2,(2)
4	KP296/	KIT,SPIDER-SI MTN,XX1
	KP128/	KIT,SPIDER,SI MTN,SRAM 80/120BCD BLT
	KP241/	KIT,SPIDER,SI MTN,SRAM 64/104BCD BLT
	KF355/	KIT,SPIDER-SI MTN,TRIPLE 64/104BCD 4BLT
	KP366/28	MTB SPIDERING SL 28T X-SYNC
	KP366/30	MTB SPIDERING SL 30T X-SYNC
5	KP366/32	MTB SPIDERING SL 32T X-SYNC
	KP021/	KIT,LOCKRING-SL --REQUIRES KT012/
1(2), 2(2), 6, 7(2) 8(2), 9A(2), 9B(2) 10, 11(3), 12, 13	KP306/	KIT,BB,CDALE SI,68/73X137 BB30/PF30

NO. (QTY)	CODE	DESCRIPTION
--	KP218/	KIT,LOCTITE 609 W/ACTIVATOR
9B(2)	QC616/	KIT,CIRCLIP,BB-SI
8(2)	KB6180/	KIT,BEARING,BB-BB30 (SKF#6806-2RS /SR12 /90% FILL)
8(2), 9A(2)	KP197/	KIT,BEARING,BB-PF30
7(2)	KP249/BLK	KIT,BEARING SHIELD,BB-SL2
10	KP308/	KIT,SPINDLE-SI MTN, 137MM
11	QC617/	KIT,SHIMS-PLASTIC, BB-SI; INCL 5 SHIMS
12	QC618/	KIT,WASHER-WAVE, BB-SI
	KT010/	KIT,TOOL-BB BEARING-SI;
	KT011/	KIT,TOOL - BEARING REMOVAL SI;
	KT012/	KIT,TOOL-LOCK RING-SI
16	KT013/	KIT,CRANK EXTRACTION TOOL; 2 PIECES



# MAINTENANCE

The following table lists only supplemental maintenance items. Please consult your Cannondale Bicycle Owner’s Manual for more information on basic bike maintenance. Consult with your Cannondale Dealer to create a complete maintenance program for your riding style, components, and conditions of use. Follow the maintenance recommendations given by the component manufacturers for the various non-Cannondale parts of your bike.

ITEM	FREQUENCY
<p><b>HOUSING AND CABLES</b> - Your bike has been supplied with small adhesive frame protectors - <i>KF103/</i>. Place this material on the the frame between where cables and housing rub due to movement. Overtime, cable rubbing can wear into the frame itself causing very serious frame damage.</p> <p><i>NOTE: Damage to your bike caused by cable rubbing is not a condition covered under your warranty. Also, adhesive frame guards are not a fix for incorrectly installed or routed cables or lines. If you find that applied guards are wearing out very quickly, consult with your Cannondale Dealer about the routing on your bike.</i></p>	<p><b>BEFORE FIRST RIDE</b></p>
<p><b>DAMAGE INSPECTION</b> - Clean and visually inspect entire bike frame/ swingarm/linkage assembly for cracks or damage. See “Inspect For Safety” in your Cannondale Bicycle Owner’s Manual.</p>	<p><b>BEFORE AND AFTER EACH RIDE</b></p>
<p><b>CHECK TIGHTENING TORQUES</b> - In addition to other component specific tightening torques for your bike. Tighten according to the TIGHTENING TORQUES information listed in this supplement.</p>	<p><b>EVERY FEW RIDES</b></p>
<p><b>INSPECT BEARINGS, REPLACE WORN OR DAMAGED PARTS :</b></p> <ul style="list-style-type: none"> <li>• SHOCK LINK ASSEMBLY</li> <li>• PIVOT AXLES</li> <li>• FRAME PIVOT BEARINGS</li> </ul>	<p><b>IN WET, MUDDY, SANDY CONDITIONS EVERY 25 HRS.</b></p> <p><b>IN DRY, CONDITIONS EVERY 50 HRS.</b></p>
<p><b>FORK</b> - Please consult the manufacturer’s owner’s manual for maintenance information for your fork .</p>	

**WARNING**

**ANY PART OF A POORLY MAINTAINED BIKE CAN BREAK OR MALFUNCTION LEADING TO AN ACCIDENT WHERE YOU CAN BE KILLED, SEVERELY INJURED OR PARALYZED.** Please ask your Cannondale Dealer to help you develop a complete maintenance program, a program which includes a list of the parts on your bike for YOU to check regularly. Frequent checks are necessary to identify the problems that can lead to an accident.



Warning! Read this supplement and your Cannondale bicycle owner's manual.  
Both contain important safety information. Keep both for future reference.

### **CANNONDALE EUROPE**

Cycling Sports Group Europe, B.V.  
Han zepoort 27, 7570 GC, Oldenzaal,  
Netherlands  
(Voice): +41 61 4879380  
(Fax): +31 5415 14240  
[servicedeskeurope@cyclingsportsgroup.com](mailto:servicedeskeurope@cyclingsportsgroup.com)

### **CANNONDALE UK**

Cycling Sports Group  
Vantage Way, The Fulcrum,  
Poole, Dorset, BH12 4NU  
(Voice): +44 (0)1202 732288  
(Fax): +44 (0)1202 723366  
[sales@cyclingsportsgroup.co.uk](mailto:sales@cyclingsportsgroup.co.uk)

**[WWW.CANNONDALE.COM](http://WWW.CANNONDALE.COM)**

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