



2019

Road Components

**SRAM
RED[™]**

**SRAM
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S-Series



FRAME FIT SPECIFICATIONS

General Notes

All dimensions are in millimeters unless otherwise noted.

Images in this document are not to scale.

Your product's appearance may vary slightly from the images in this document.

Information in this document is subject to change without prior notice.

If you have any questions please contact your SRAM representative.

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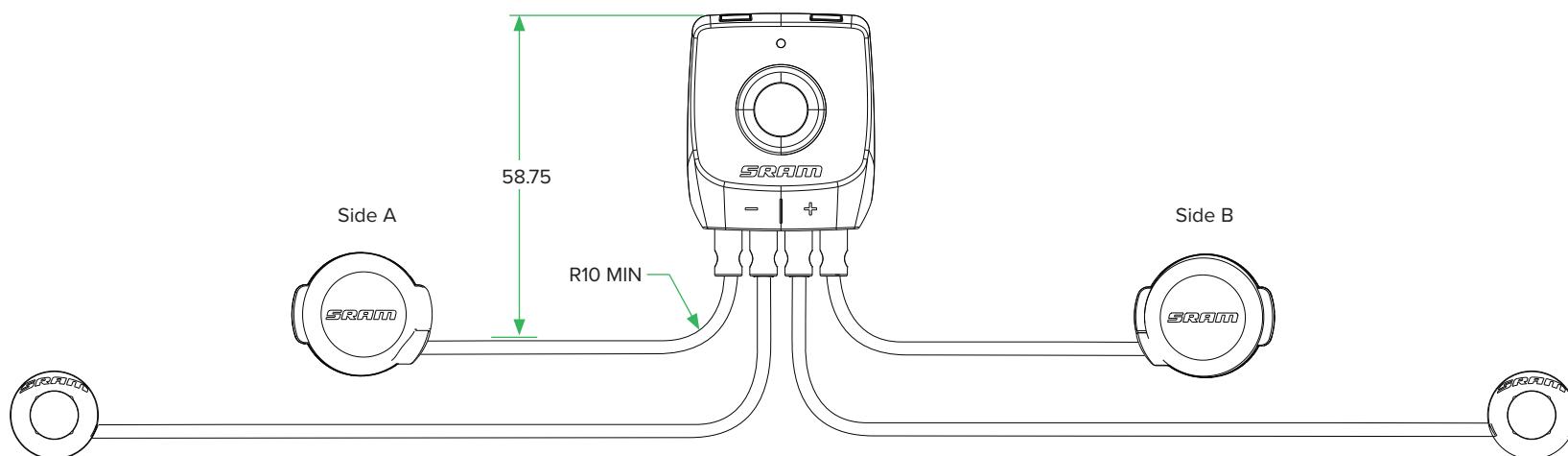
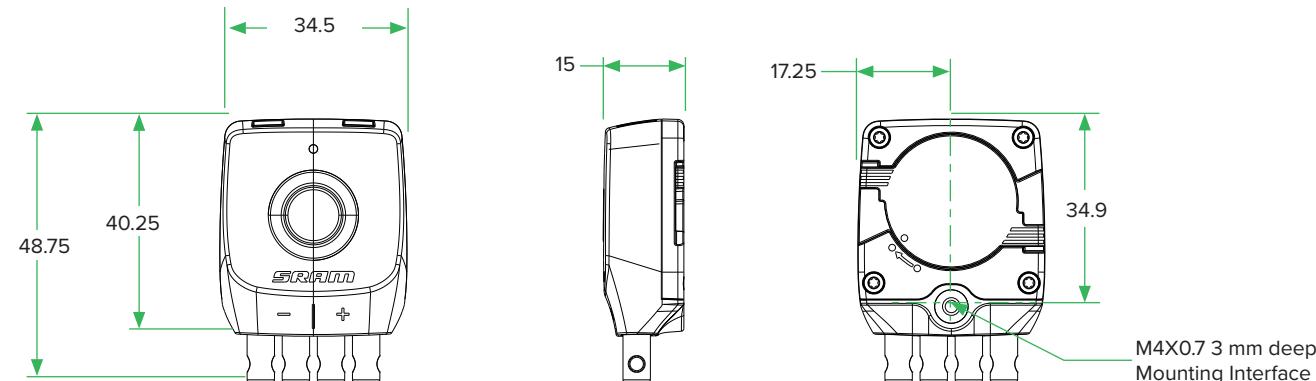
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Electronic Shifters

BlipBox

Dimensions without Elastic Band

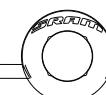
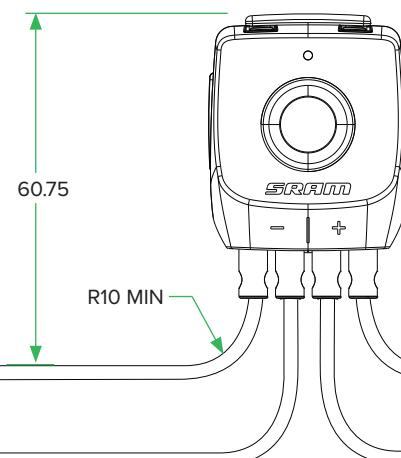
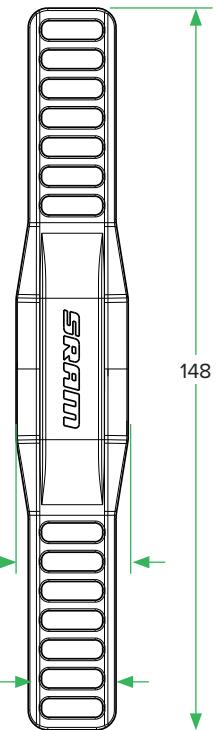
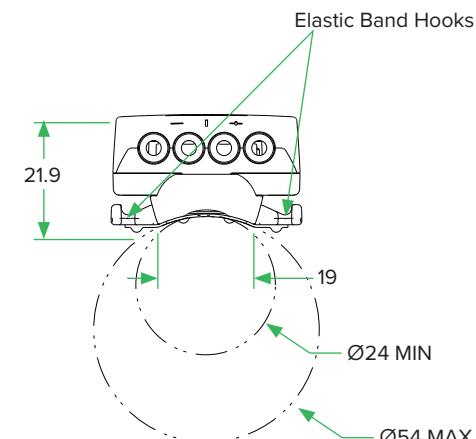
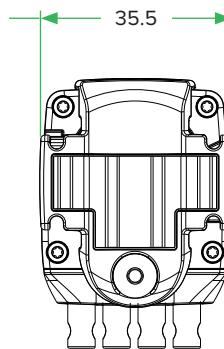
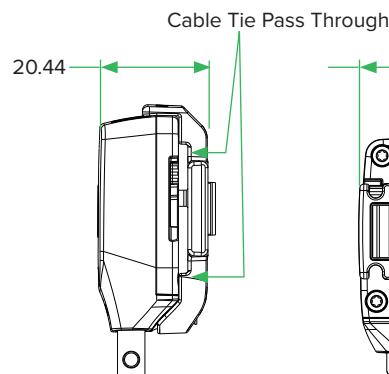
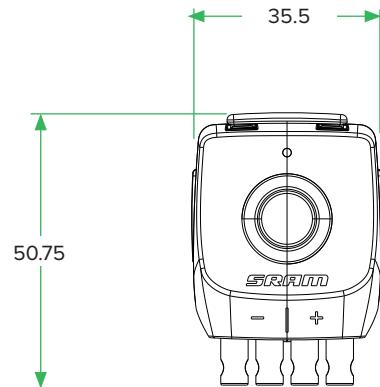
Custom Mounting without the Elastic Band Mounting Adapter



BlipBox

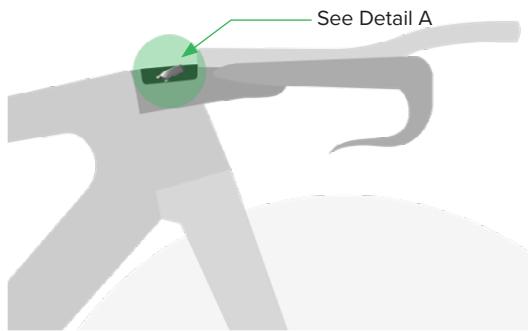
Dimensions with Elastic Band

Elastic Band Mounting Adapter for Mounting to Cylindrical or Flat Surfaces



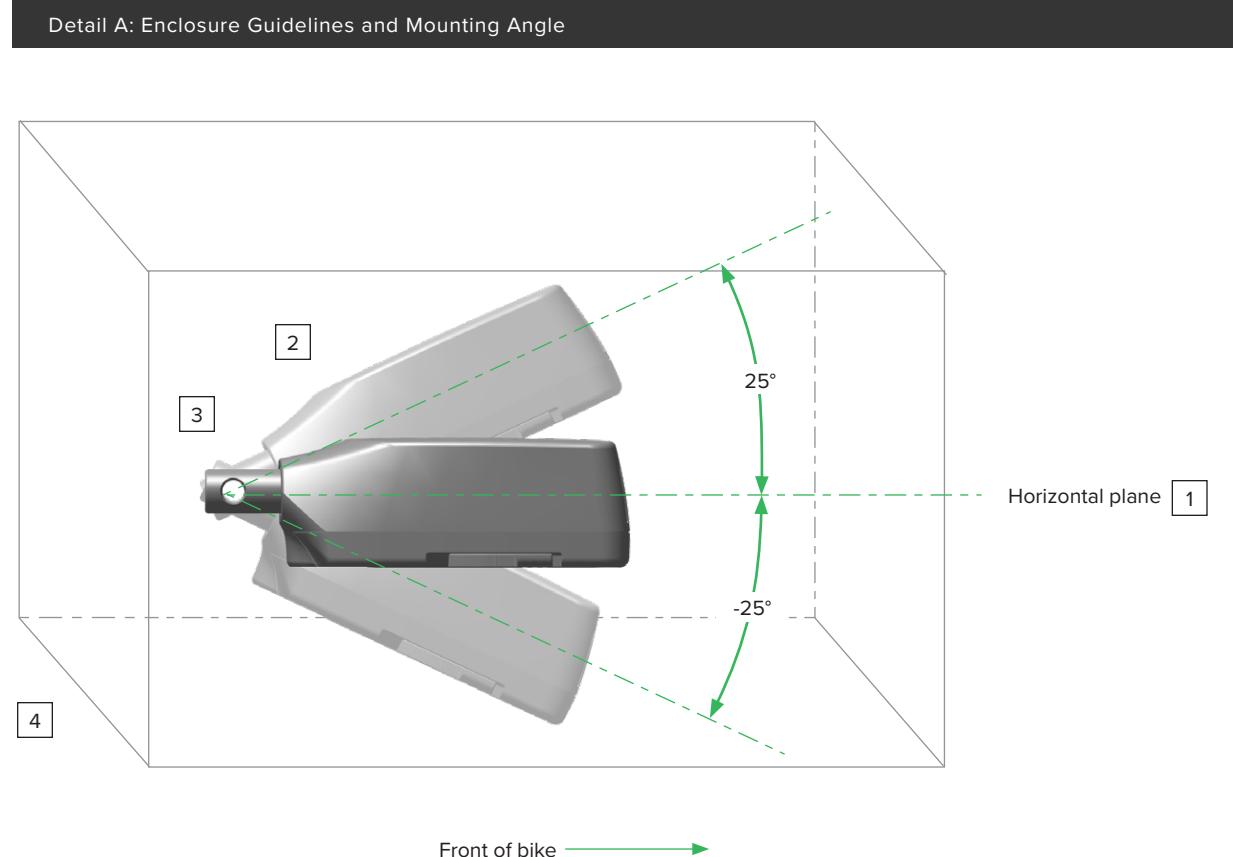
BlipBox

Enclosure Guidelines



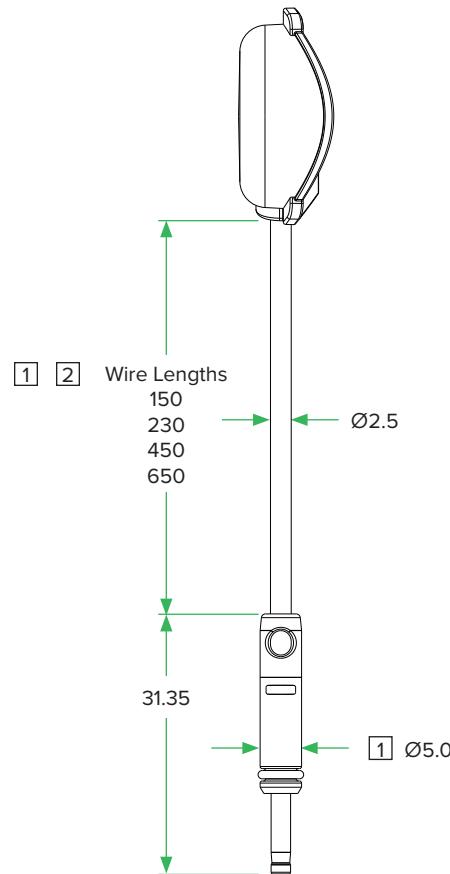
BlipBox orientation for optimal performance in internal enclosure space:

- [1] Must be mounted within $\pm 25^\circ$ from the horizontal plane.
- [2] The button can face upward or downward.
- [3] The wire input ports can face forward or backward.
- [4] The enclosure should not be 3 or more sides of the following materials: carbon, carbon plastic, metal, or water-filled reservoir.

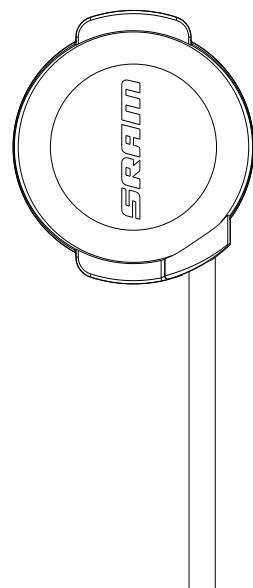


Blips

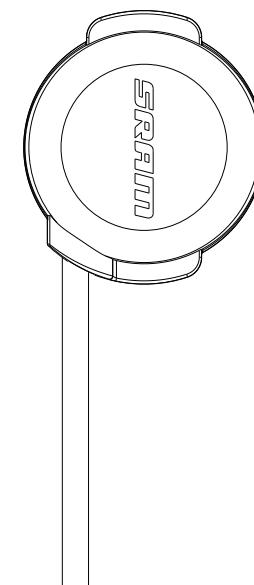
Remote Shift Buttons and Connector Dimensions



Left Shift Button



Right Shift Button



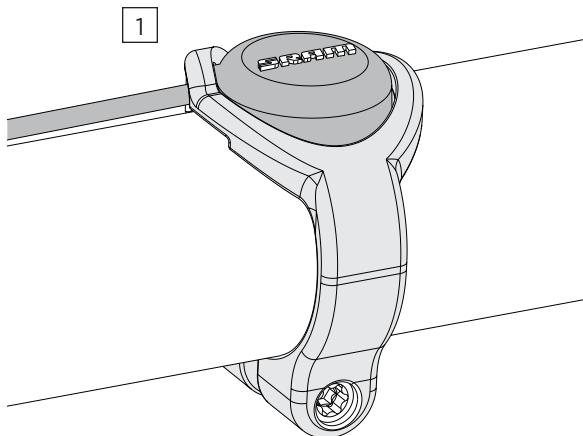
[1] Consider the connector diameter and wire length when routing wires internally.

[2] Choose the wire lengths based on application and desired location of the Blips.

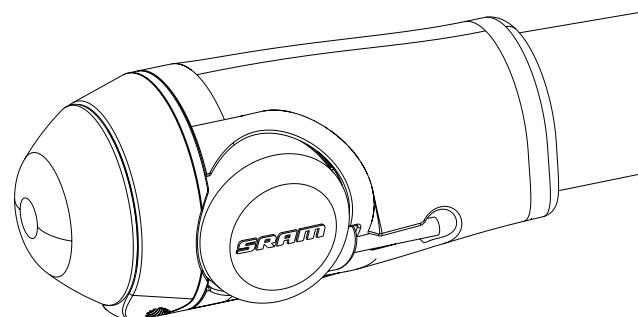
BlipClamp and BlipGrip

Remote Shifter Mounting

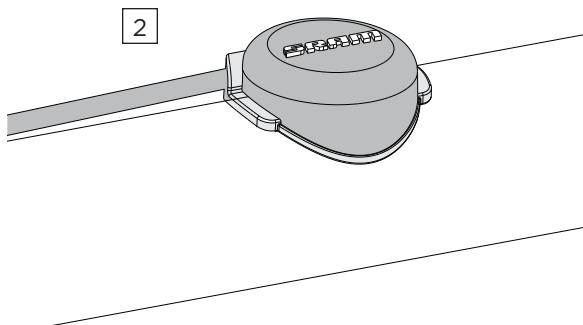
31.8 mm Bar



22.2mm TT Extensions



22.2-35 mm Bar

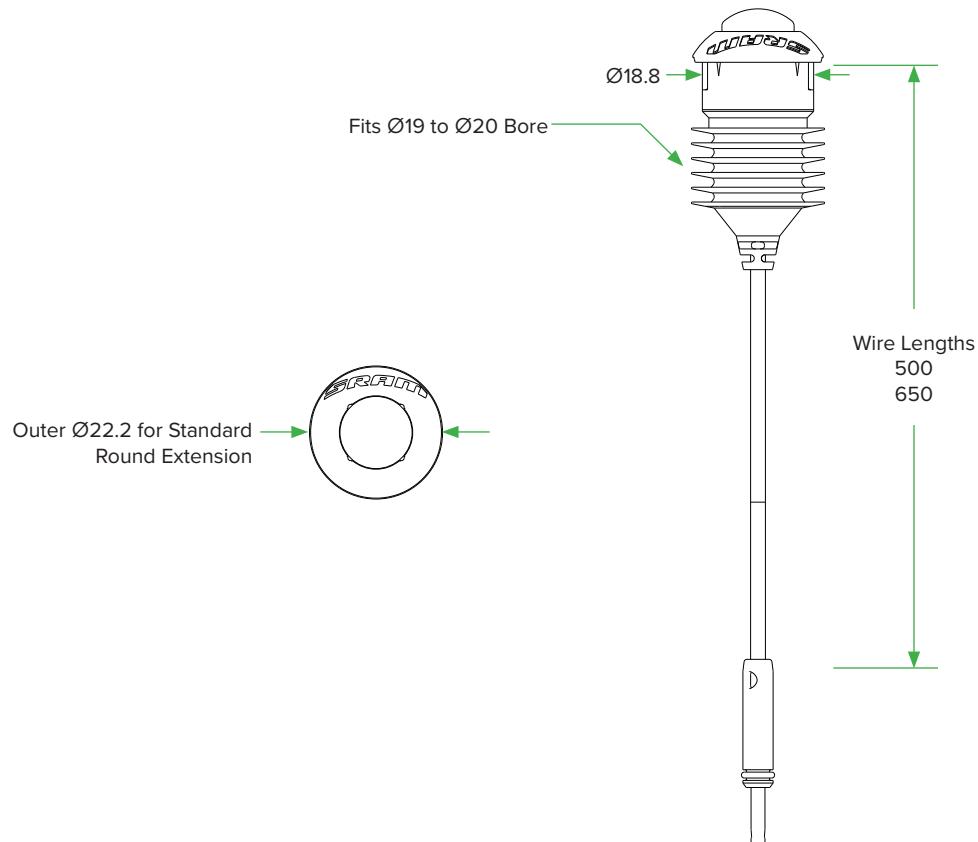


[1] Button holder designed for 31.8 mm bar mounting.

[2] Direct mount under the handlebar tape for 22.2 mm through 35 mm diameter bars.

Clicks

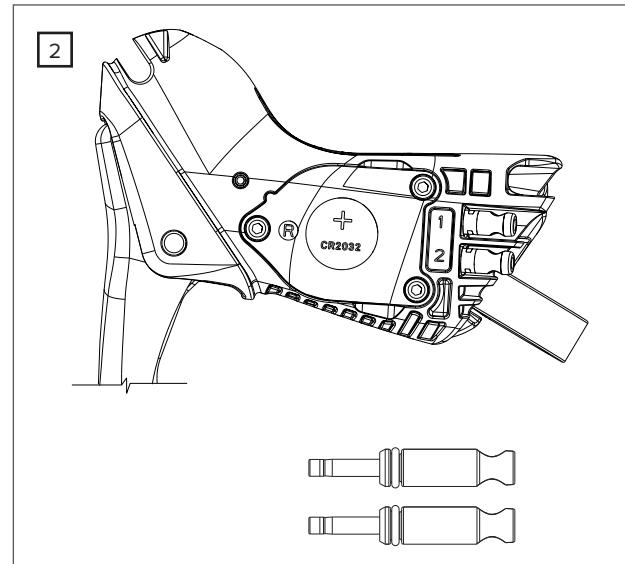
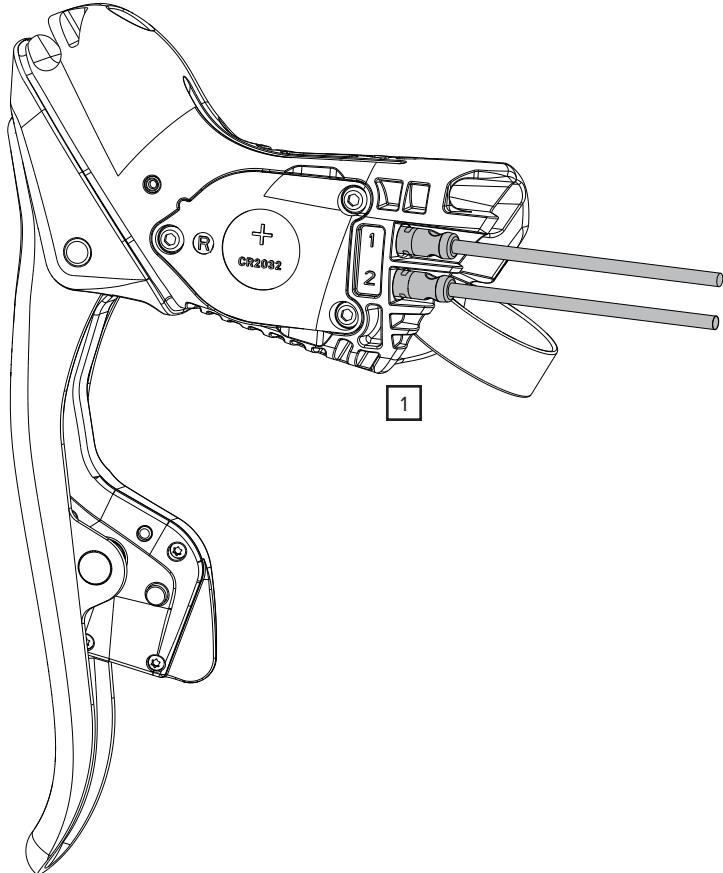
Extension Shift Buttons



- 1 Internally mounted shifter setup requires the Blip or Clic wires to be routed external of bar, stem, and frame materials a minimum total of 100 mm per side for all the wires. Routing under bar tape is acceptable within the 100 mm length.

Shift-Brake Levers

Remote Shifter Connections

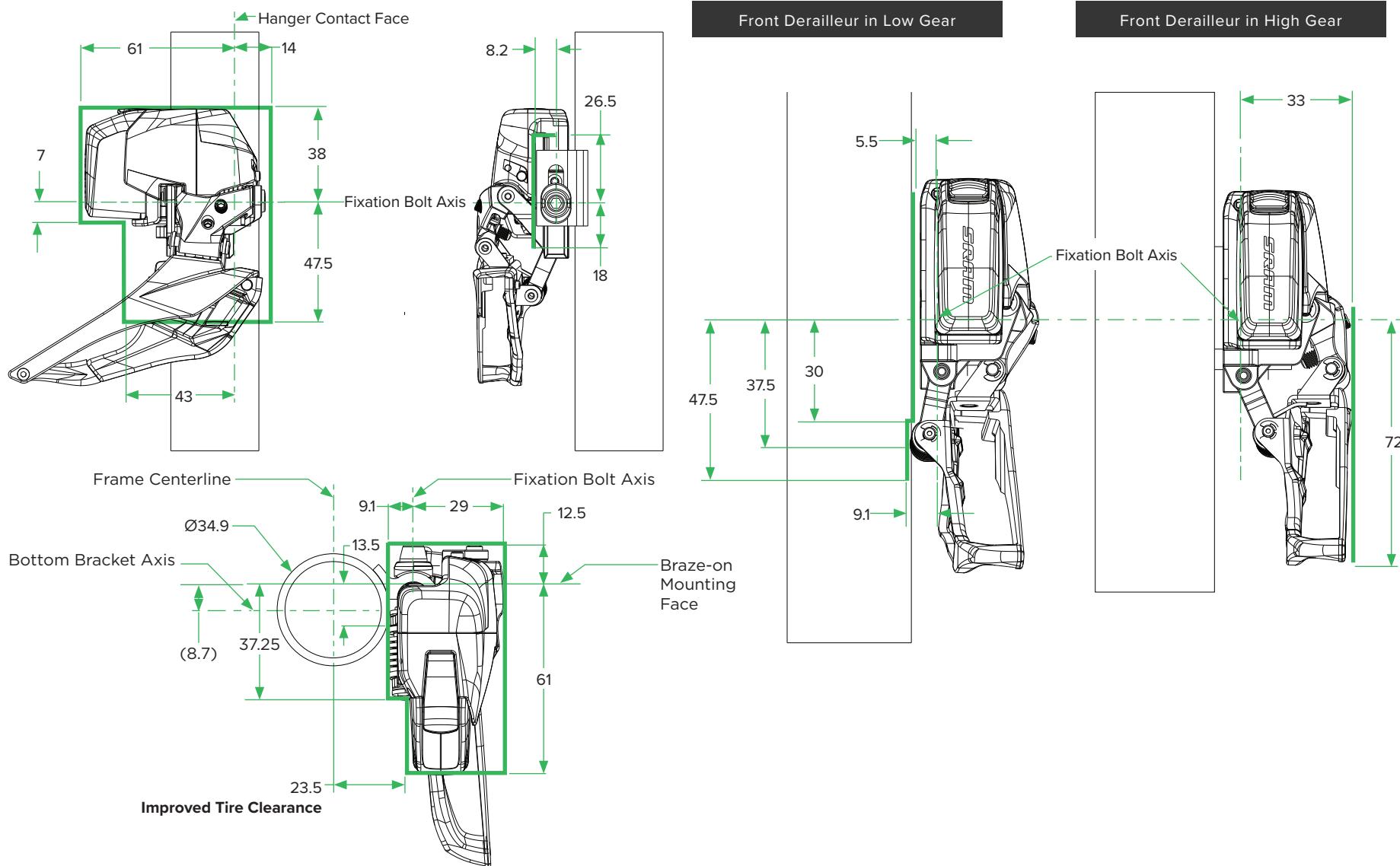


- 1** The left and right shifter brake each provide additional ports for auxiliary remote shifter buttons. SRAM Red eTap AXS has two ports, and SRAM Force eTap AXS had one port.
- 2** Use plugs when remote shifters are not in use.
- 3** Provide a small amount of slack in the wire for shifter brake repositioning.
- 4** Route the wires underneath the bar tape.

Front Derailleurs

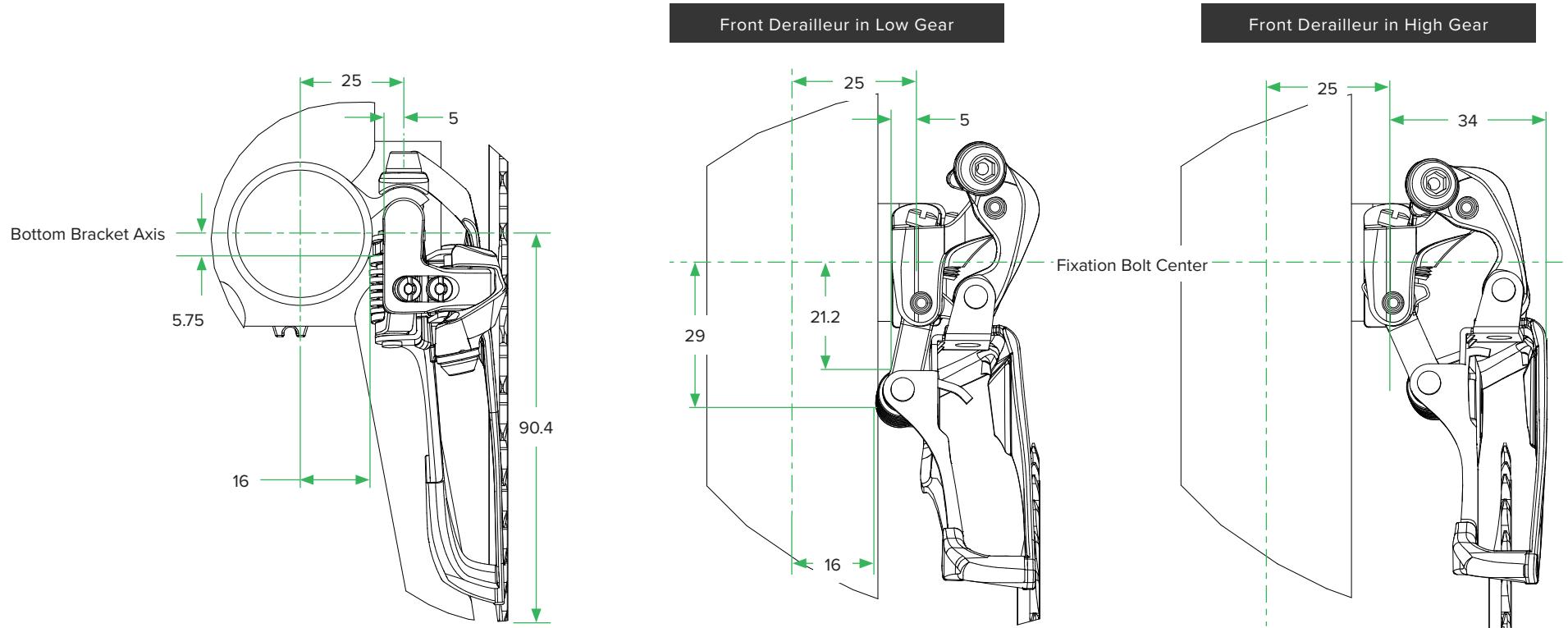
Front Derailleur Clearance

SRAM 12 Speed



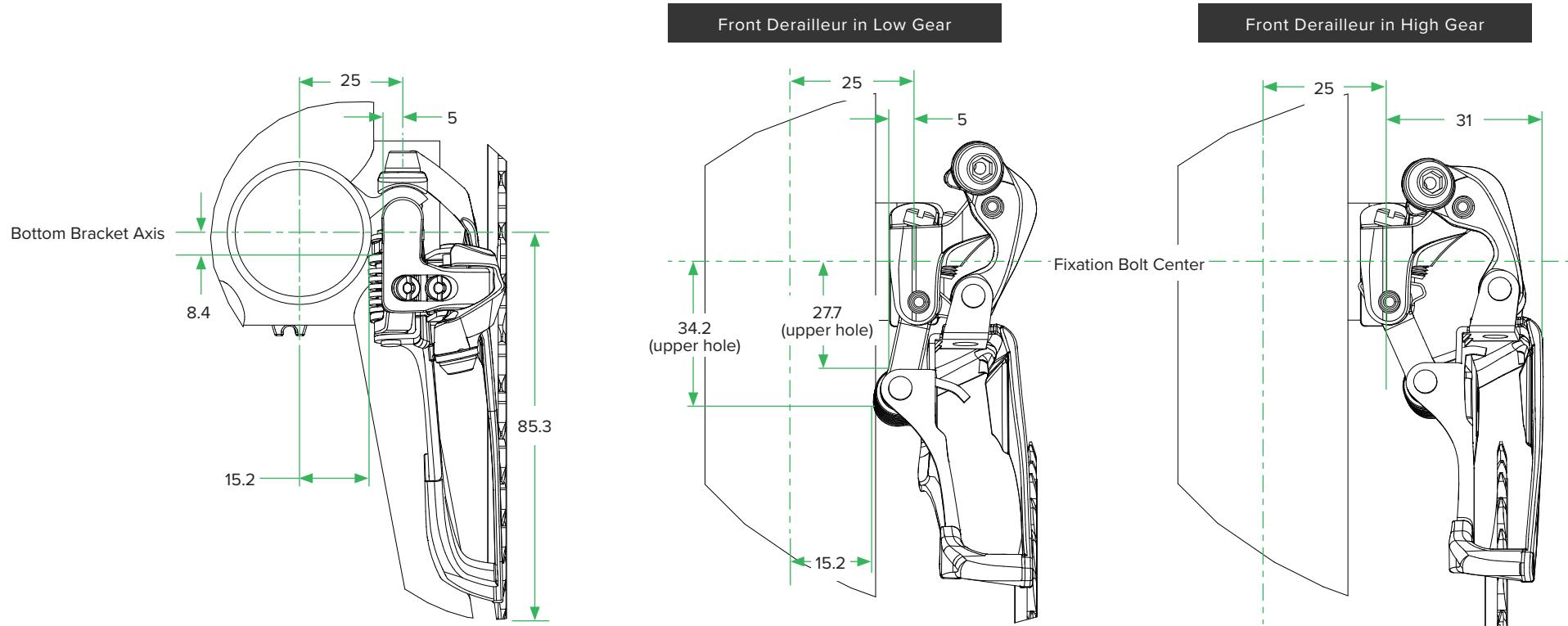
Front Derailleur Clearance

SRAM 11 Speed



Front Derailleur Clearance

SRAM 11 Speed

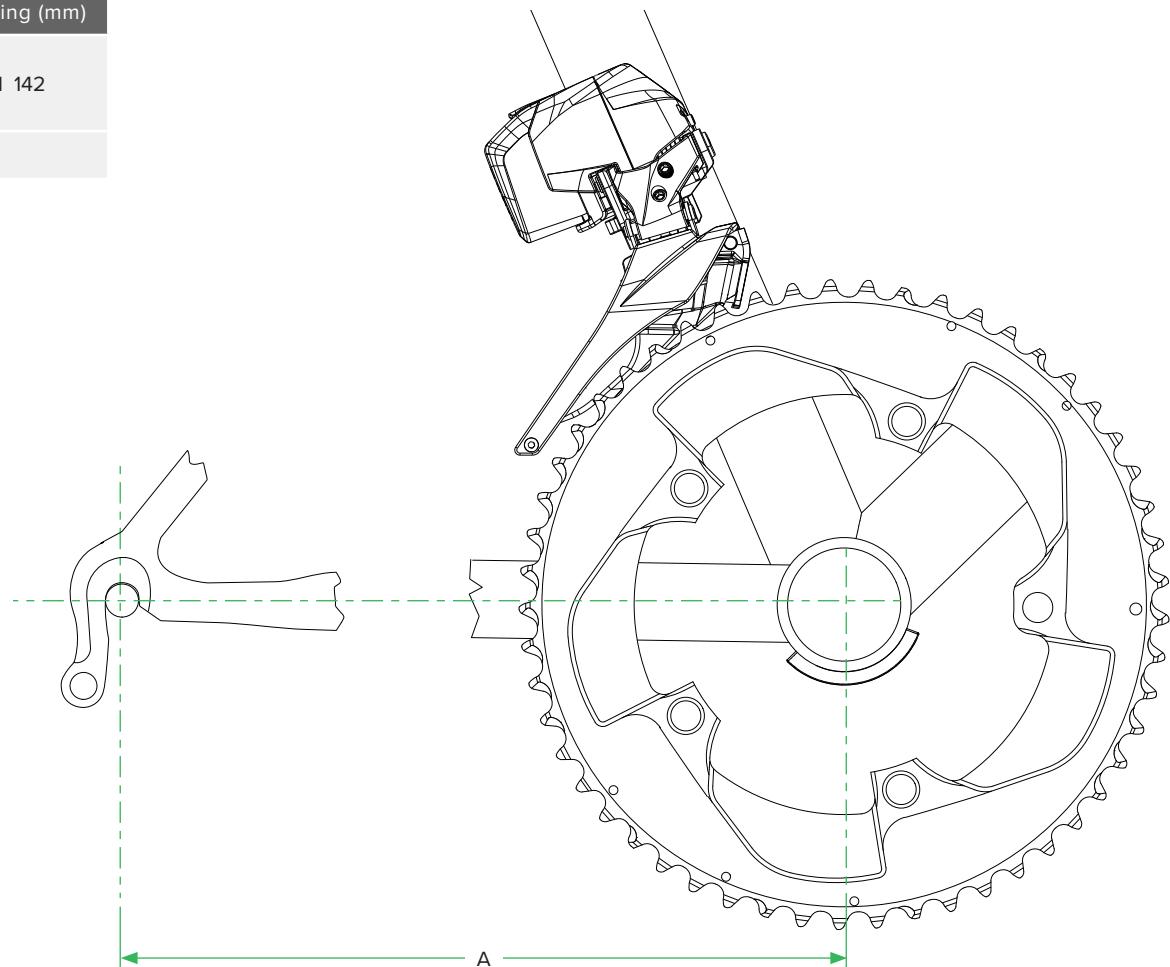


Frame Chainstay Information

SRAM 12 Speed

	Minimum Chainstay Length A (mm)	OLD* Hub Spacing (mm)
2x	405	130, 135, and 142
1x	395	

* Over Locknut Dimensions

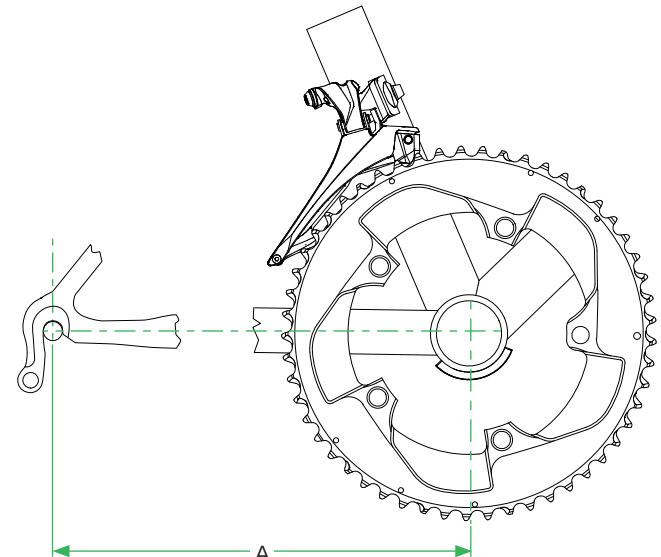


Frame Chainstay Information

SRAM 10 and 11 Speed

	Chainring	Minimum Chainstay Length A (mm)		
		130 OLD* frames 135 OLD frames w/ Wide Axle Cranks	135 OLD frames	
2x11	55/42	395	430 410 405 410 405	
	53/39	405		
	52/36			
	50/34			
	46/36			
2x10	46/34	395		
	55/42	430		
	54/42			
	53/39			
	52/36	405		
	52/38			
	50/34			
	46/36			

*Over Locknut Dimensions



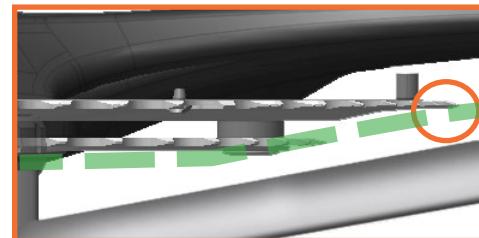
Potential problems with not following the minimum chainstay length

⚠ WARNING CRASH HAZARD

When the chain is on the big chainring and smallest rear cog, increased chain angle, increased chain angle can cause the chain to derail outboard off of the large chainring under very high pedaling loads, which may lead to a crash and serious injury and/or death to the rider.

⚠ WARNING CRASH HAZARD

When the chain is on the small chainring and smallest rear cog, reduced clearance between the chain and large chainring upshift rivets can cause the chain to unintentionally catch on the upshift rivets, which may lead to loss of control of the bicycle.

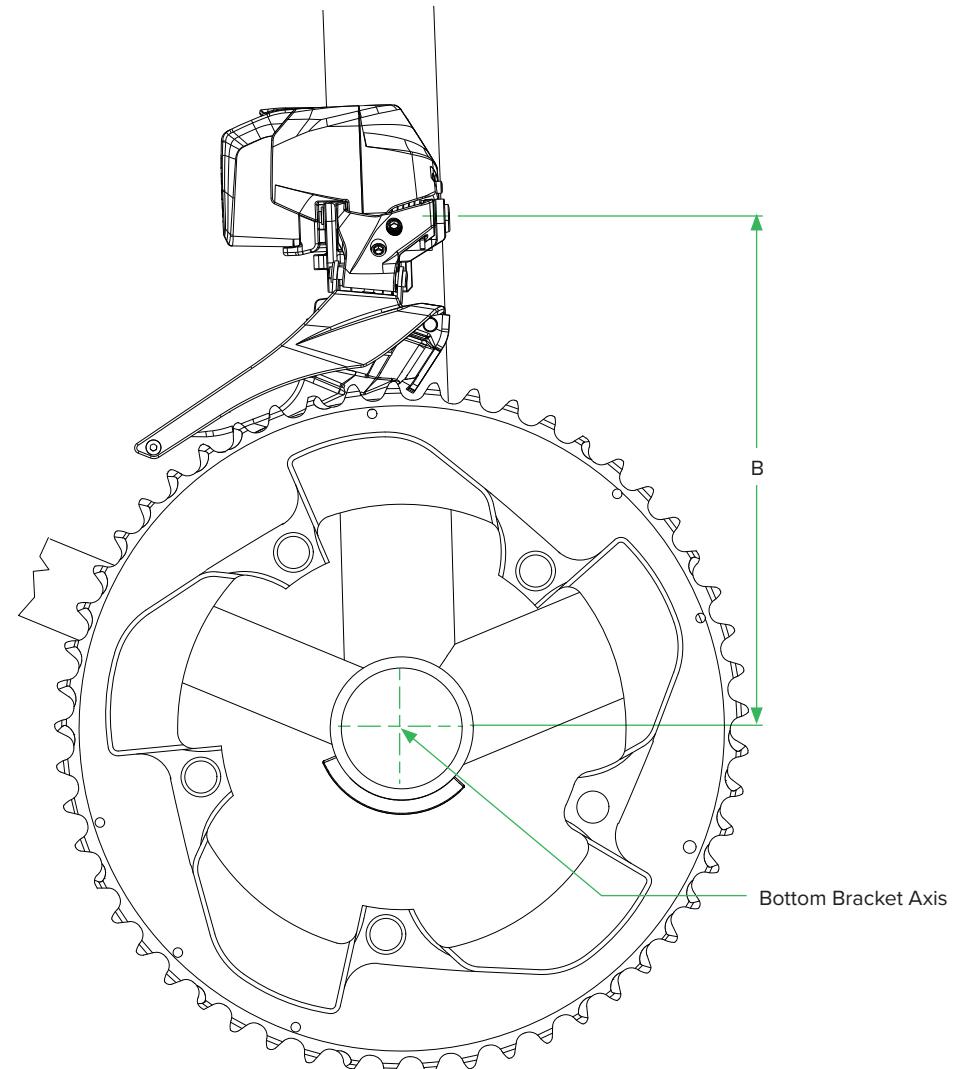


Braze-on Hanger Dimensions

SRAM 12 Speed

	Chainring Size	Fixation Bolt Height B (mm)
2x	50-37	150.5
	48-35	146.5
	46-33	142.5

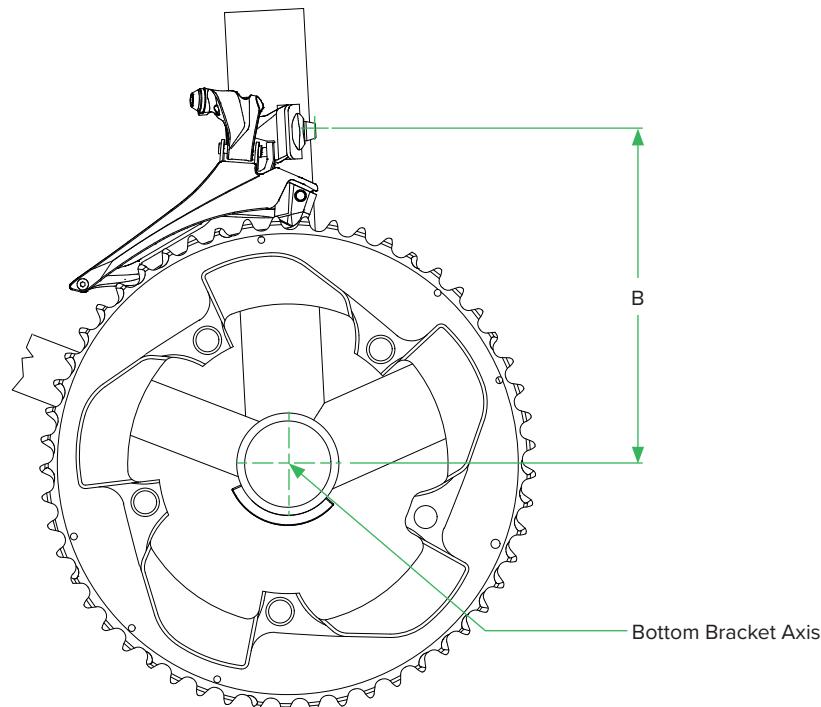
Nominal FD position provided, design should allow for adequate adjustment range in the FD hanger slot to account for tolerances.



Braze-on Hanger Dimensions

SRAM 10 and 11 Speed

	Chainring	Fixation Bolt Position
		B (mm)
2x11	55/42	151
	53/39	147
	52/36	145
	50/34	141
	46/36	133
2x10	55/42	154 (lower hole)
	54/42	152 (lower hole)
	53/39	150 (lower hole)
	52/36	148 (lower hole)
	52/38	148 (lower hole)
	50/34	152 (upper hole)
	46/36	144 (upper hole)

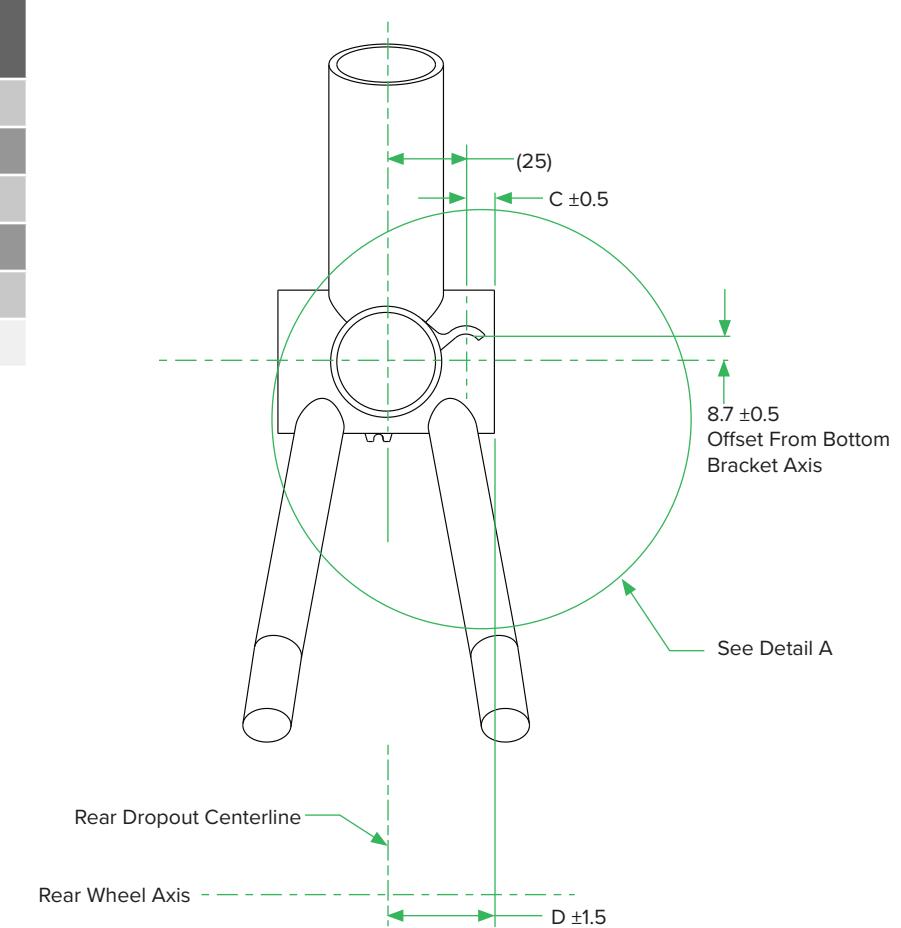
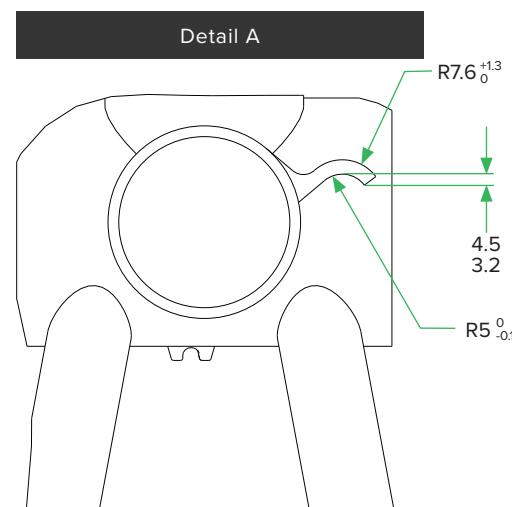


Braze-on Hanger Dimensions

Front Derailleur Interface

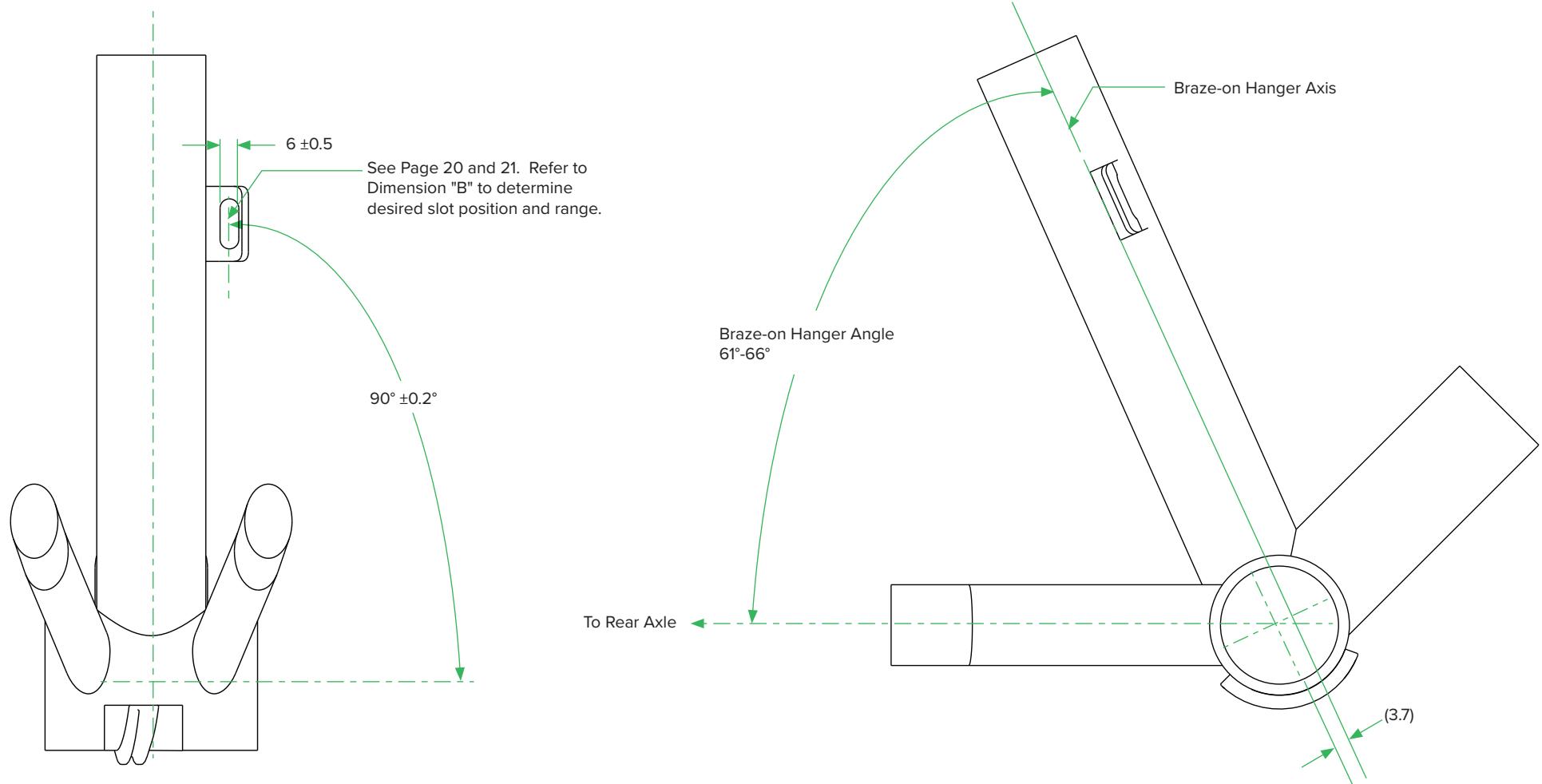
BB Shell Type	BB Shell Width* (mm)	BB Shell Offset to Left Side* (mm)	C (mm)	D (mm)
BSA/PressFit30/BB30	68	0	9	34
PF79-A	79	11	9	34
BB30-73A/PF30-73A	73	5	9	34
Italian	70	0	10	35
PressFit 86.5, BB386	86.5	0	18.25	43.25

* Dimensions provided for reference, see BB Shell Specifications.



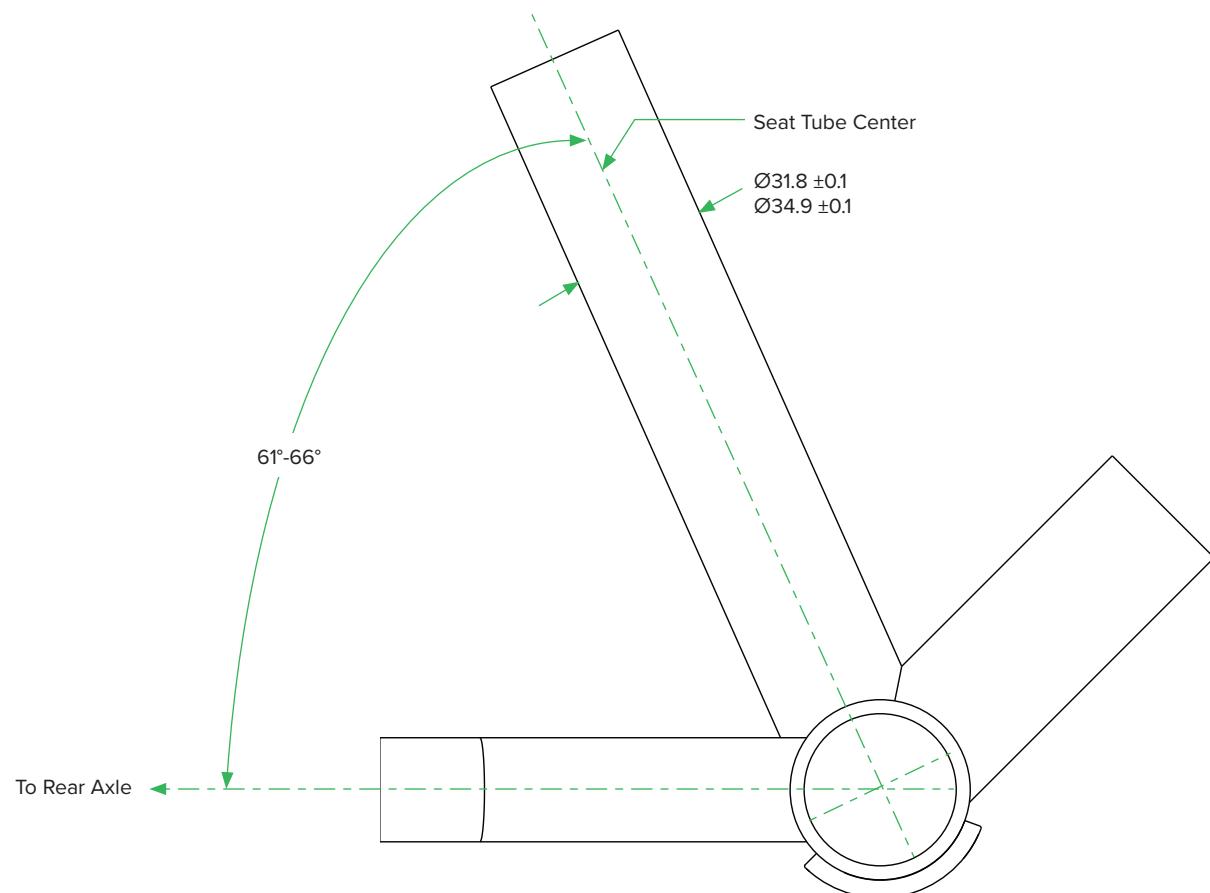
Braze-on Hanger Dimensions

Front Derailleur Interface



Clamp-on Front Derailleur Mount Dimensions

Front Derailleur Interface

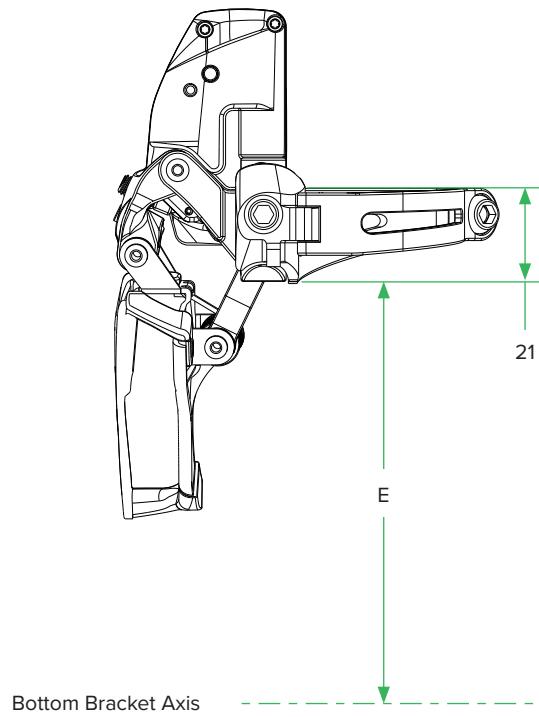


Front Derailleur Position with Clamp Adapter

SRAM 12 Speed

	Chainring Size	Clamp Height E (mm)
2x	50-37	135.5
	48-35	131.5
	46-33	127.5

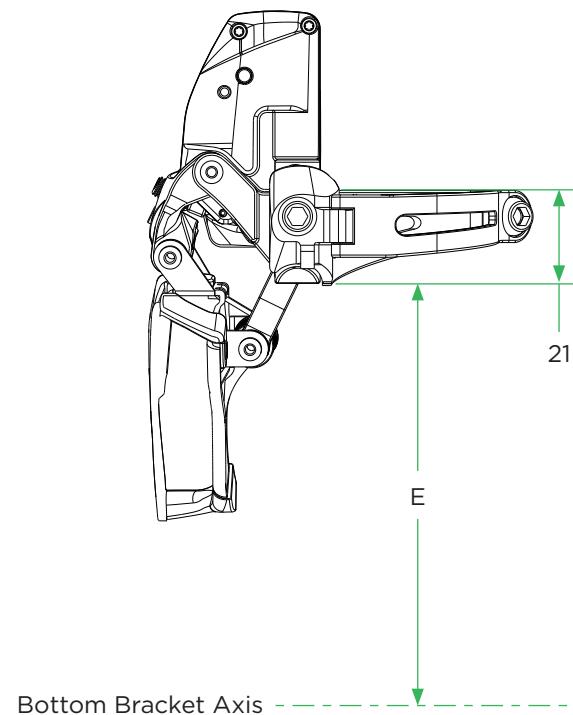
Nominal FD position provided, design should allow for adequate adjustment range of the clamp along the seat tube to account for tolerances.



Front Derailleur Position with Clamp Adapter

SRAM 10 and 11 Speed

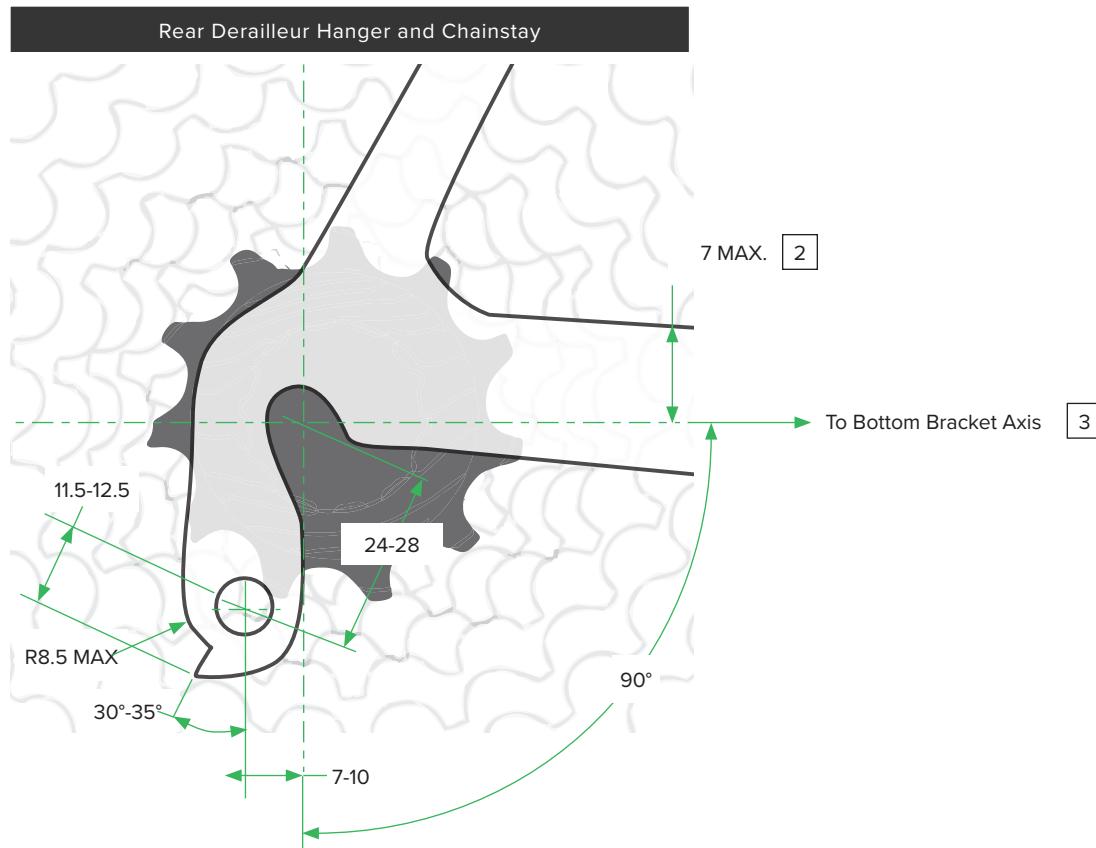
	Chainring	Lower Clamp Position
		E (mm)
2x11	55/42	136
	53/39	132
	52/36	130
	50/34	126
	46/36	118
2x10	55/42	149
	54/42	147
	53/39	145
	52/36	143
	52/38	143
	50/34	139
	46/36	131



Rear Derailleurs

Hanger and Chainstay Specifications

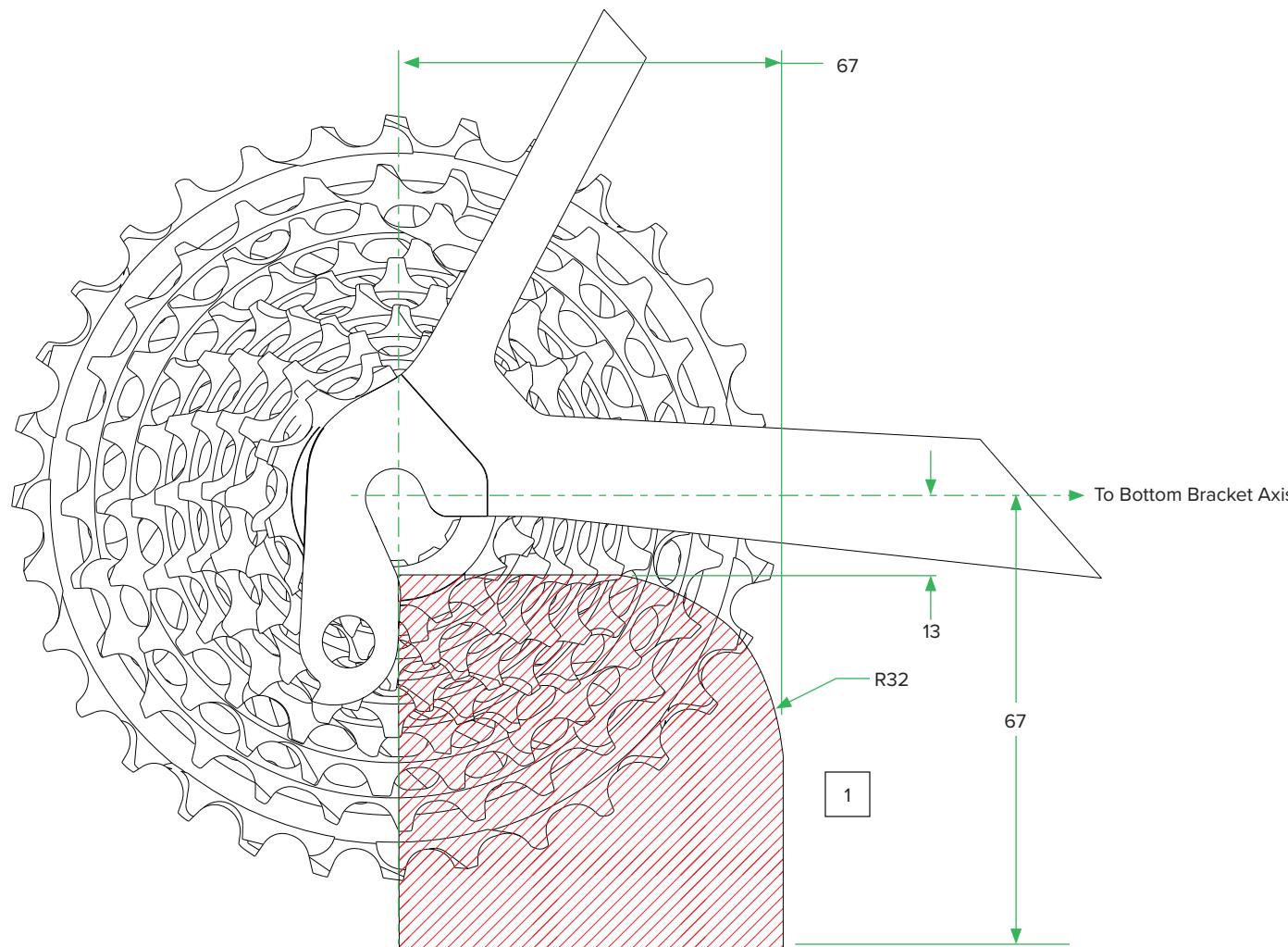
All SRAM Road Rear Derailleurs



- 1 Chainstay should be designed for sufficient clearance to the chain when on the smallest cog to avoid contact between chain and chainstay when riding over a rough surface.
- 2 7 mm MAX applies where the chain crosses the chainstay while in the smallest cog and is an advisory to minimize the potential for chain contact with the chainstay during use.
- 3 Refer to the [Frame Chainstay Information](#) page for 1x and 2x chainstay length.

Rear Derailleur Frame Clearance

All SRAM Road Rear Derailleurs



1 Keep this area clear for rear derailleur clearance.

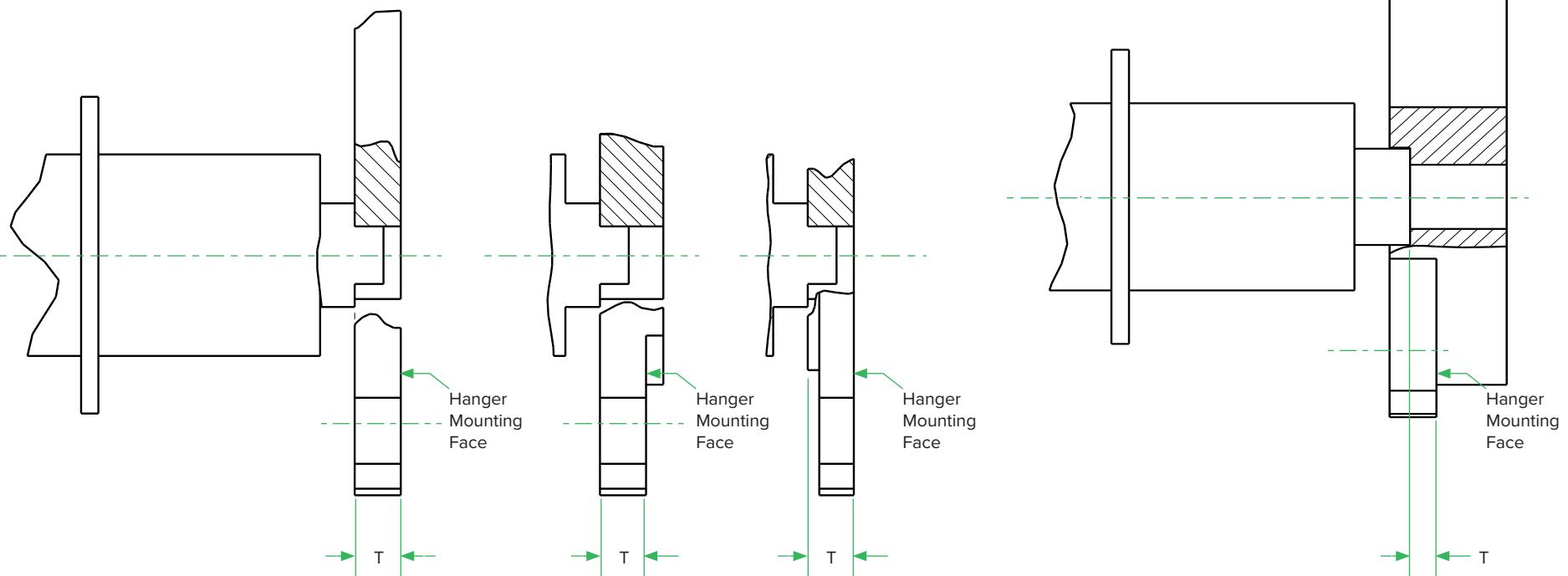
Hanger Specifications

All SRAM Road Rear Derailleurs

	T (mm)
Quick Release	7-9
Thru Axle	3.5-5.5

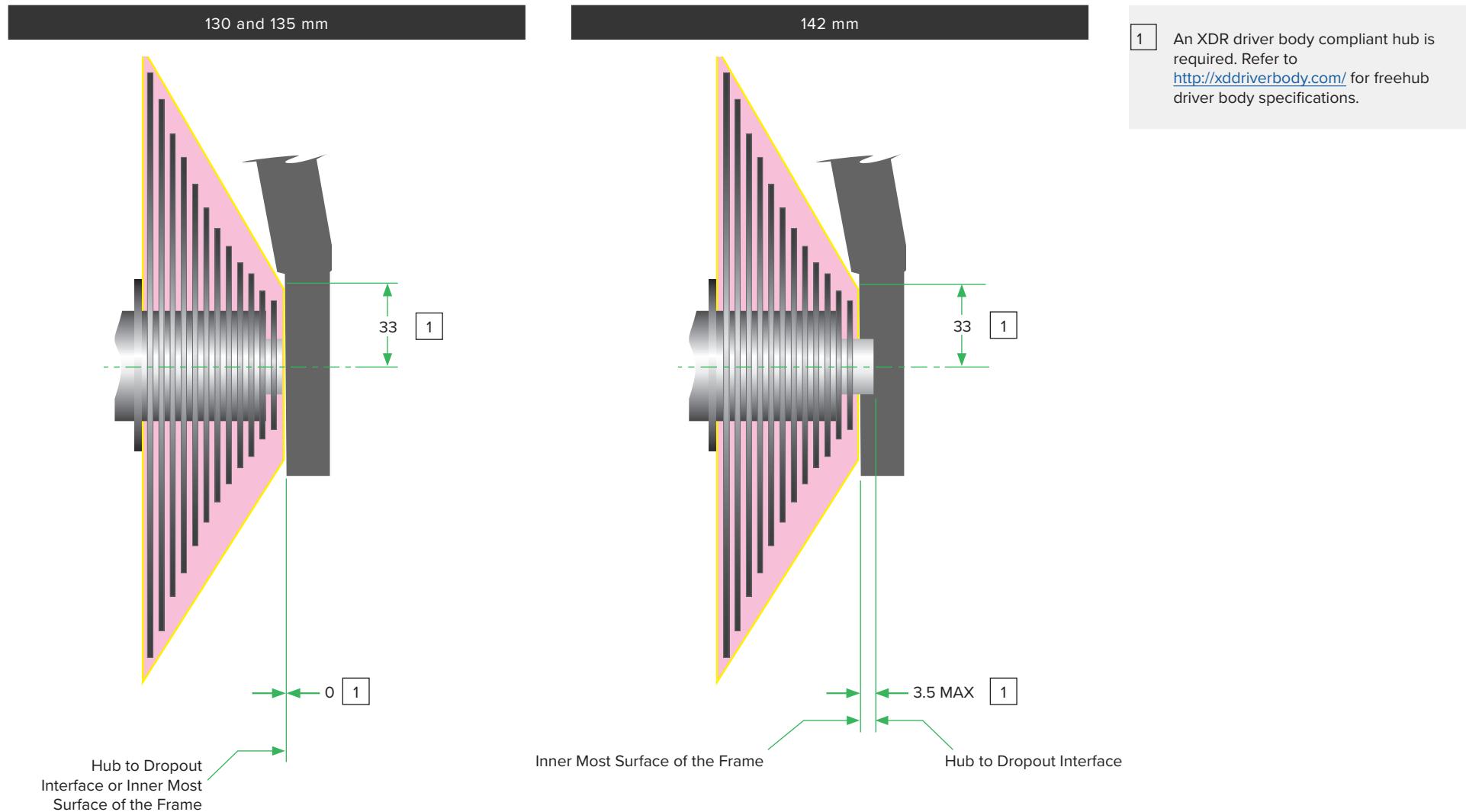
Thru Axle

Quick Release



Frame Rear Dropout Clearance

12 Speed Road Chain and Cassette

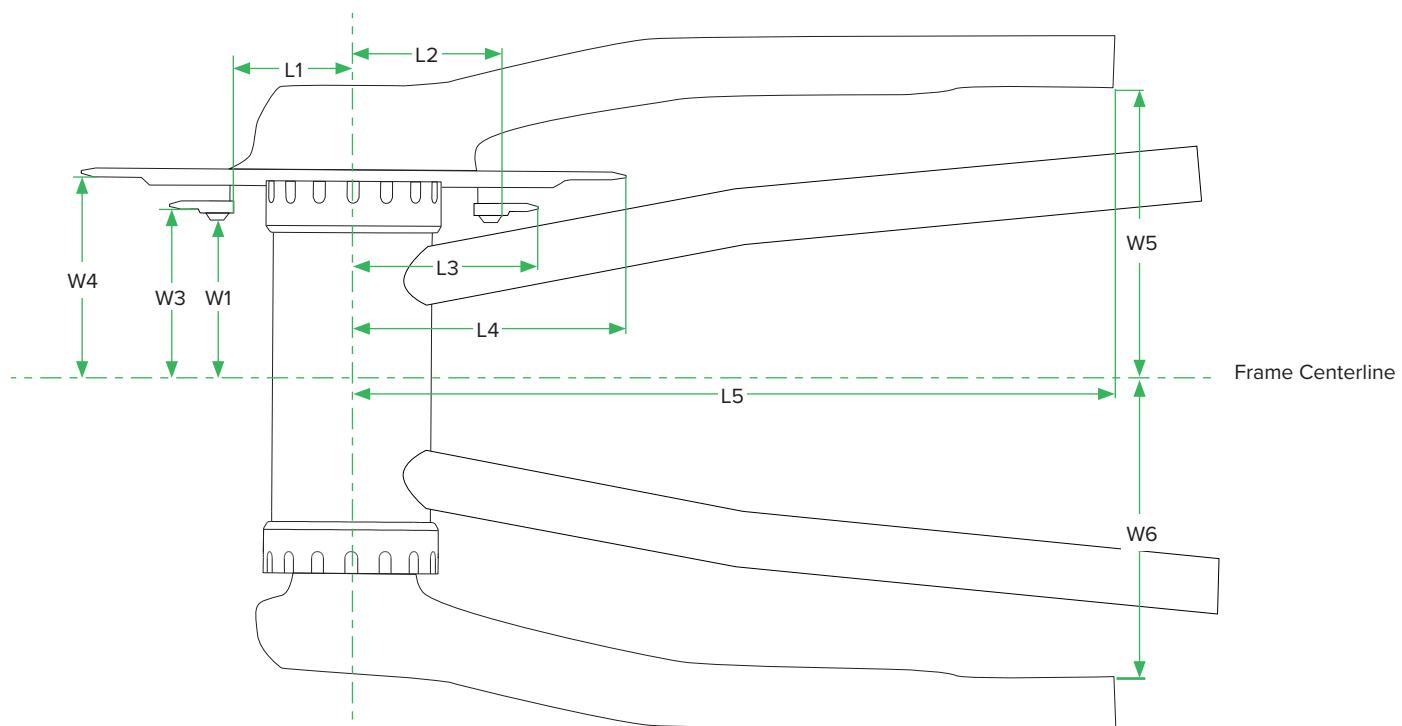


Road Cranksets

Crankarm and Chainring Frame Clearance

12 Speed

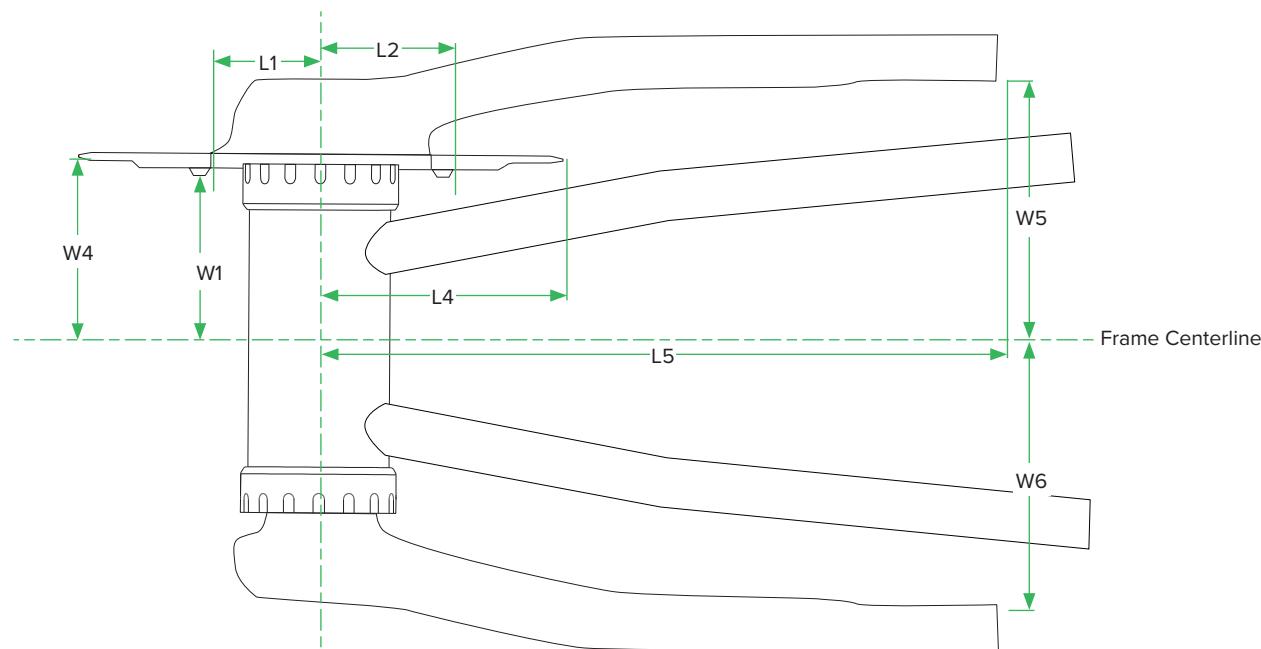
Chainring Configuration	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W3 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	Q-Factor
50-37	47.5	59.5	76.8	102.4	190	37.8	39.9	47.7	60	60	145
48-35			73.4	98.3							
46-33			68.7	94							



Crankarm and Chainring Frame Clearance

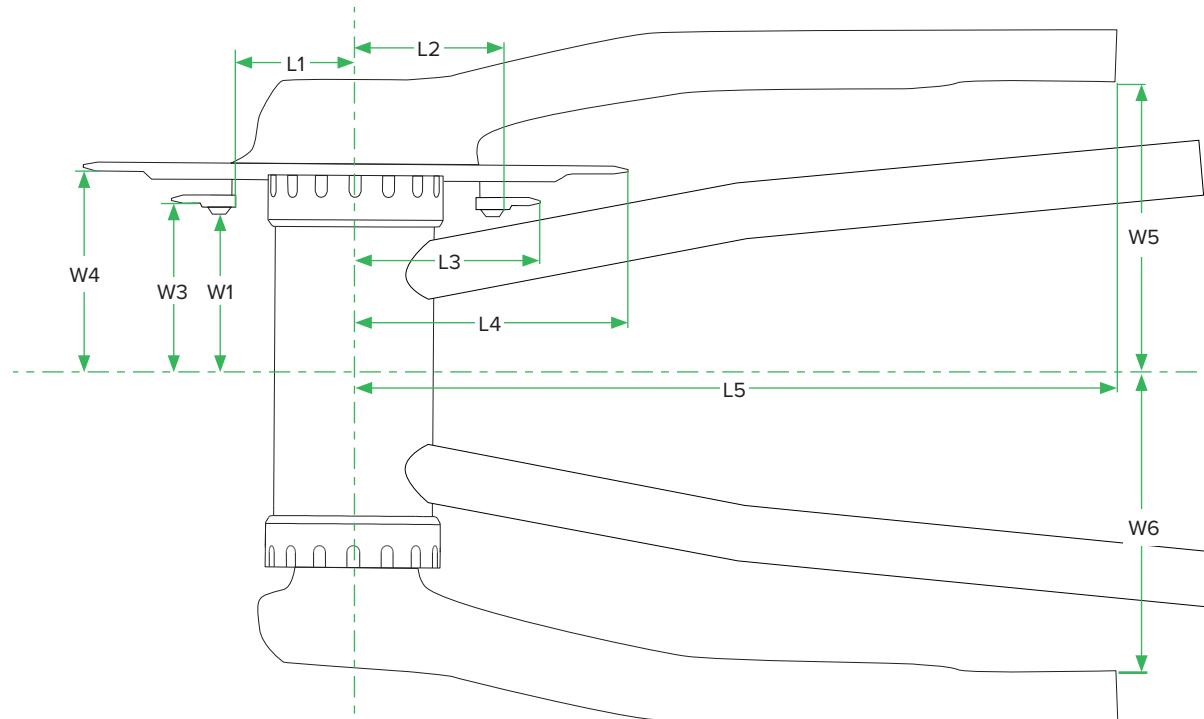
12 Speed

Chainring Size	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	Q-Factor
52	47.5	59.5	108.7	190	40.1	43.3	60	60	145
50			104.6						
48			100.6						
46			96.6						
44			92.5						
42			88.5						
40			84.4						
38			80.4						
36			76.4						



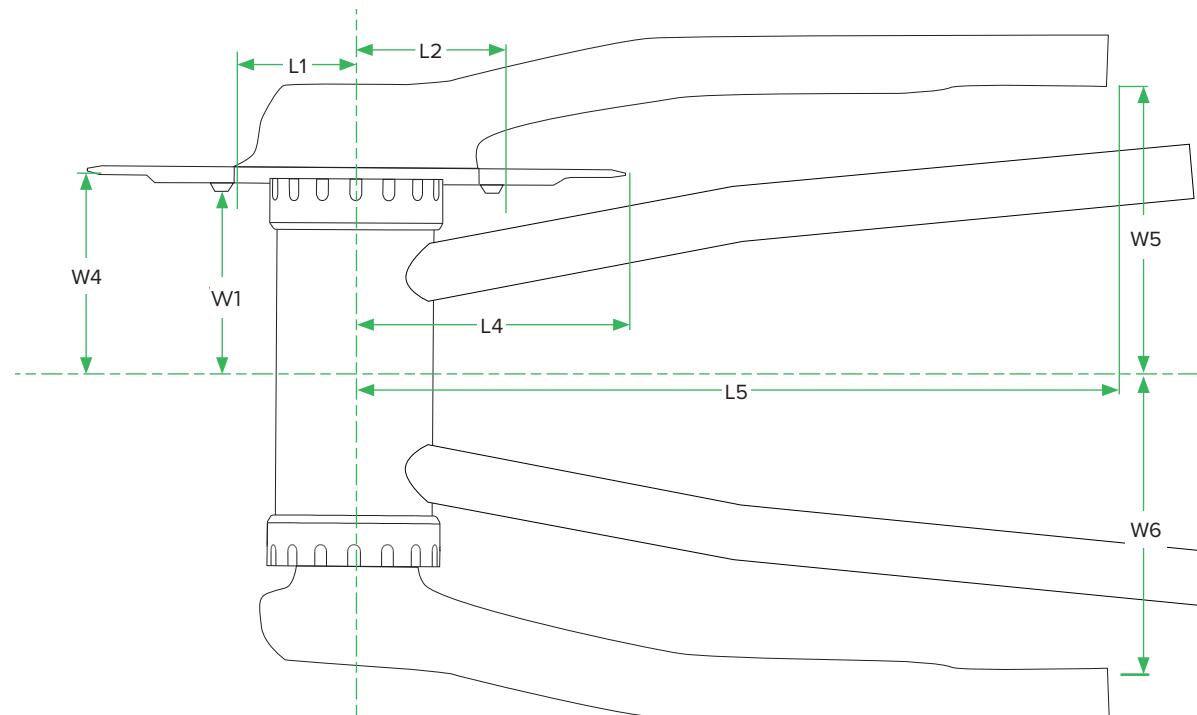
Crankset Diagram

11 Speed



Crankset Diagram

11 Speed and Singlespeed



Crankset Frame Clearance

11 Speed

Chainring	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W3 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	Q-Factor	BB Type					
SRAM RED*/ SRAM Force/ SRAM RED Quarq Power Meters/ Quarq Prime Carbon Power Ready/S902/S952																	
55/42	57.0	71.0	88.0	113.1	197.0	38.0	40.0	47.5	60.0 MIN	60.0 MIN	145	GXP BB30 PF30 PFGXP					
53/39			81.8	109.2		37.7											
52/36			75.0	107.0		38.0		48.0									
50/34			71.0	103.2													
46/36			75.0	95.1													

* Cranksets can be configured to fit BB386, BB30a, and BBright.

Wide Axle SRAM Rival/ S552												
52/36	47.0	61.0	75.0	106.8	192.1	41.0	42.9	50.6	63.8	63.8	154.6	GXP
50/34			71.0	103.1					GXP/ PFGXP 62.8 BB30		BB30/ PF30	BB30/ PFGXP

SRAM Rival/ Quarq Prime Aluminum Power Ready												
52/36	47.0	61.0	75.0	106.8	192.1	38.5	40.4	48.1	61.3	61.3	149.6	GXP
50/34			71.0	103.1					GXP/ PFGXP 60.3 BB30/ PF30		BB30/ PF30	BB30/ PFGXP
46/36			75.0	95.1								

SRAM S-390												
50/34	57.3	61	71	103.1	191.5	40.4	42.4	50.1	62	62	149	GXP
46/34				95.1					BB30/ PF30			BB30/ PFGXP

Crankset Frame Clearance

11 Speed

Chainring	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	Q-Factor	BB Type	Chainstay Length (mm)
SRAM Force 1											
54	57.0	72.0	112.2	197.0	38.0	43.7	60.0	60.0	145	GXP BB30 PF30 PFGXP	≥ 395
52			108.2								
50			104.1								
48			100.1								
46			96.1								
44			92.0								
42			88.0								
40			84.0								
38			79.9								
SRAM Rival 1											
50	47.0	62.7	104.1	192.1	38.0	43.7	61.3 GXP/ PFGXP 60.3 BB30/ PF30	61.3 GXP/ PFGXP 60.3 BB30/ PF30	149.6 GXP/ PFGXP 147.4 BB30/ PF30	GXP BB30 PF30 PFGXP	≥ 395
48			100.1								
46			96.1								
44			92.0								
42			88.0								
40			84.0								
38			79.9								
SRAM Apex 1											
44	49.0	61.0	92.0	191.7	41.3	43.7	62.0	62.1	149	GXP BB30 PF30 PFGXP	≥ 395
42			88.0								
40			83.9								

Crankset Frame Clearance

11 Speed and Singlespeed

Chainring	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	Q-Factor	BB Type	Chainstay Length (mm)
SRAM S350-1											
44	47.0	62.7	92.0	196.7	38.0	43.7	60.0	60.0	145	GXP BB30 PF30 PFGXP	≥ 395
42			88.0								
40			84.0								
Omnium											
48	64.5	78.0	99.1	195.4	35.5	42.5	55.0	54.7	145	GXP	≥ 395

Crankset Frame Clearance

8/9/10 Speed

Chainring	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W3 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	Q-Factor	BB Type
SRAM Apex												
53/39	57.0	71.0	81.0	109.2	196.7	38.0	40.0	47.3	60.0	60.0	145	GXP BB30 PF30 PFGXP
50/34	47.0	61.0	71.0	103.2								
48/34				99.0								
46/36			75.0	95.1								
Touro												
53/39/30	29.0	41.0	63.0	109.2	190.5	38.5	40.5	48.0	NA	61.0	59.0	145
48	47.0	71.0	NA	99.0				NA				
G52	57.0		107.2	112.5				46.0				
G53				Square								

Spider Frame Clearance

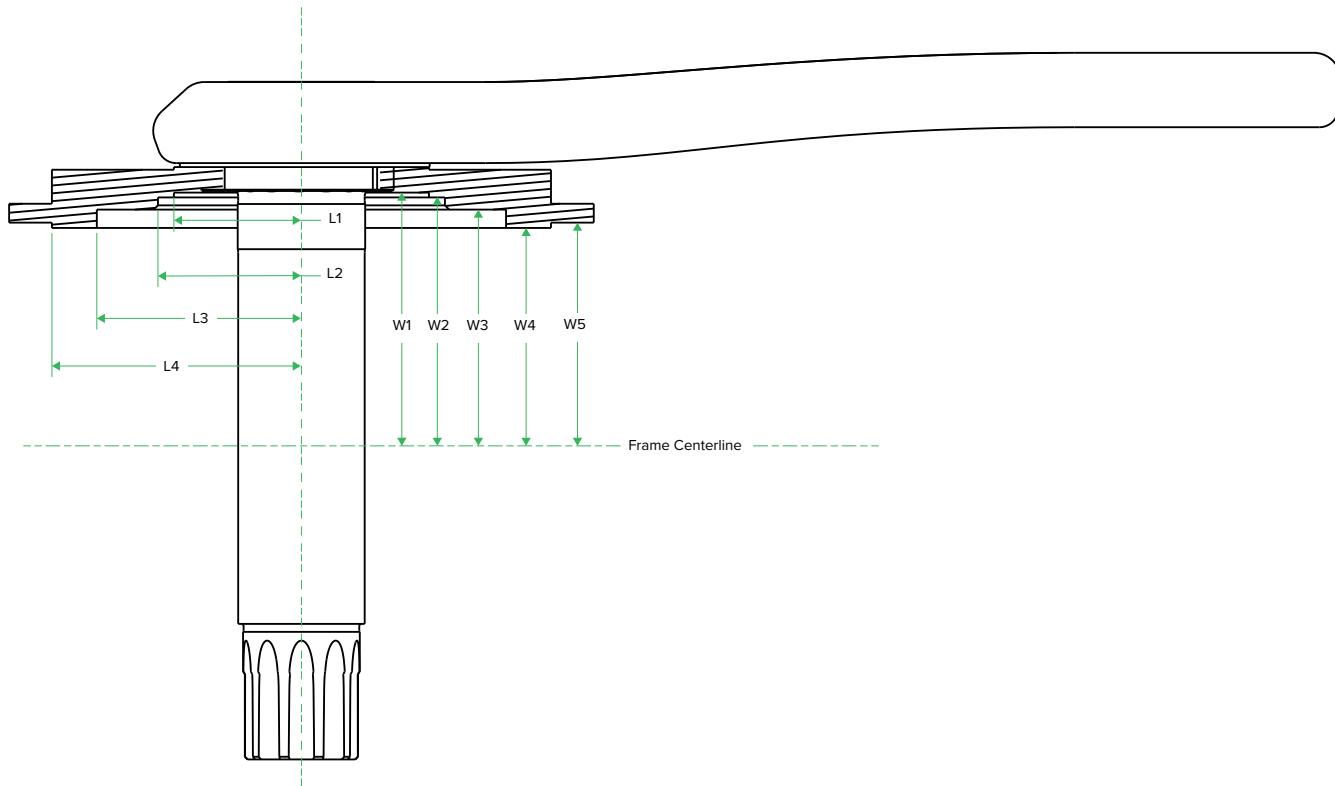
Quarq DZero Platform Power Meters

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W4 (mm)	W5 (mm)
DZero 110	24.0	27.0	38.5	46.95	47.6	46.7	44.4	41.0	42.0
DZero 130			39.0	56.95					
DFOUR			38.5	46.95					41.9

Cranksets can be configured to fit BB386, BB30a, and BBright.

DZero Carbon, DFour, and RED DZero crankset frame clearance is the same as SRAM Force. See 2x11 Crankset Frame Clearance page.

DZero Aluminum crankset frame clearance is the same as SRAM Rival. See 2x11 Crankset Frame Clearance page.



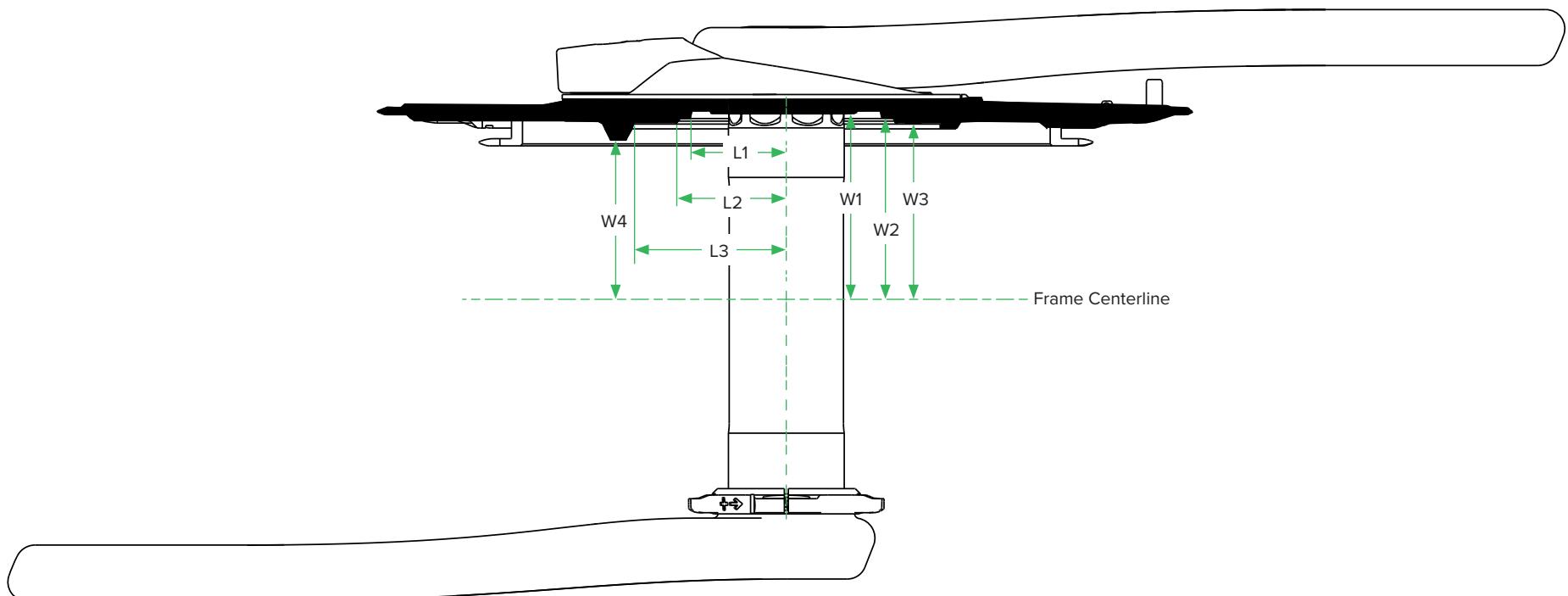
Spider Frame Clearance

Quarq AXS Platform Power Meters

L1 (mm)	L2 (mm)	L3 (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W4 (mm)
24.0	27.0	37.2	48	46.7	44.3	40.7

Refer to Chainring Crankarm Clearance 1x, 2x for chainring and crankarm to frame clearance.

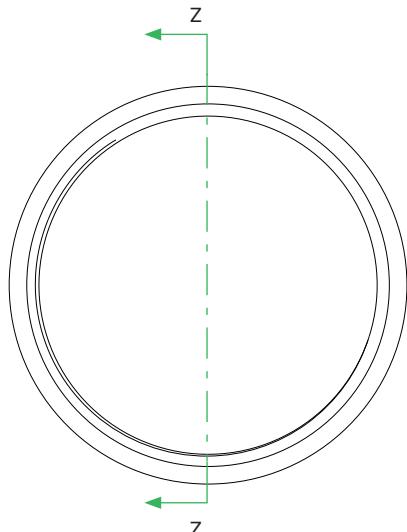
Consider clearance in this area if using a wide format BB shell such as BB386 or PressFit 86.5



Bottom Bracket Shell Specifications

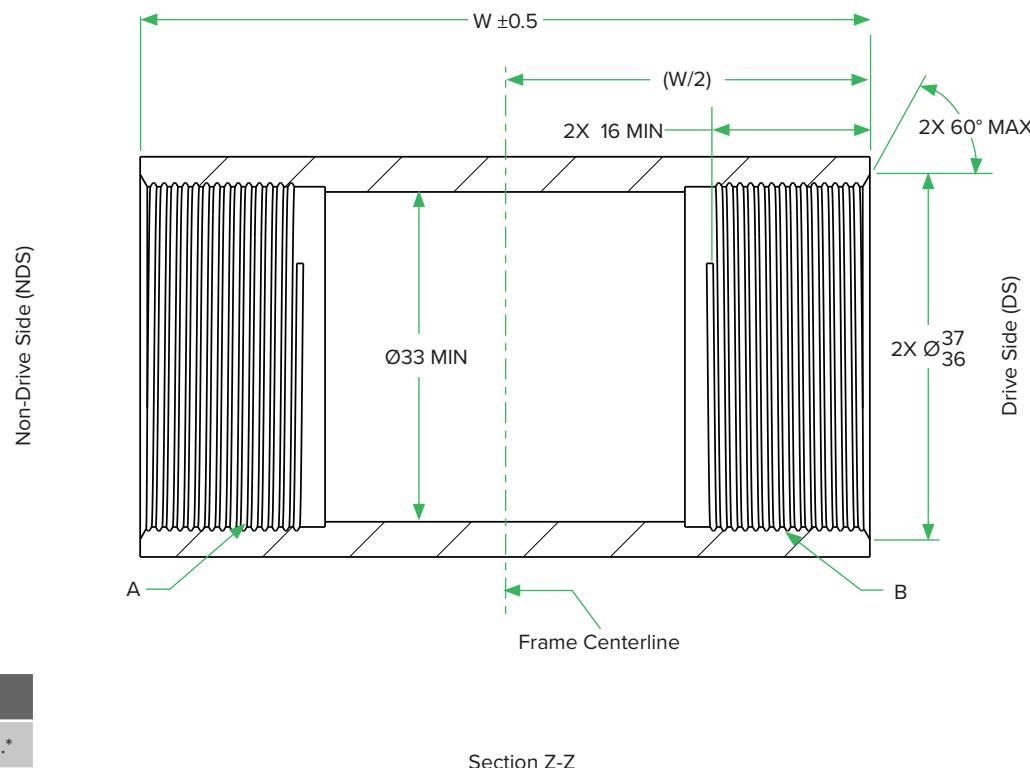
BSA and Italian Bottom Bracket

Road Bottom Bracket Frame Shell Specification



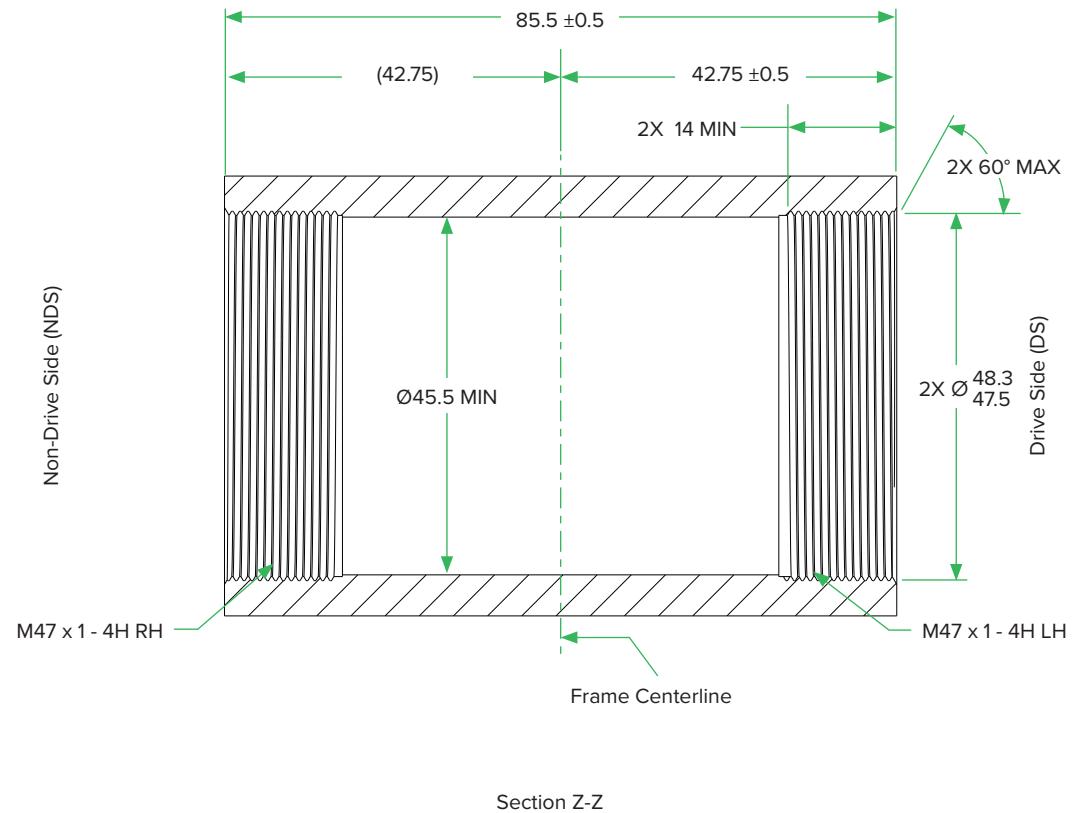
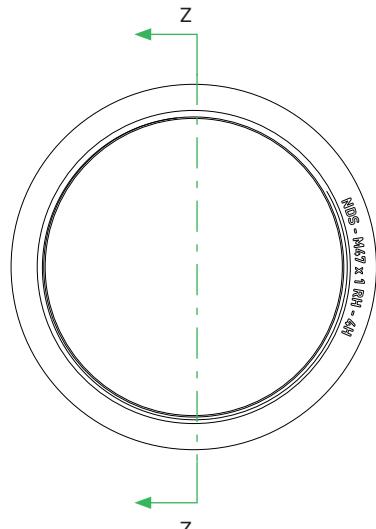
	W	A	B
BSA 68	68 ± 0.5	BC 1.37" x 24 TPI R.H.*	BC 1.37" x 24 TPI L.H.*
Italian	70 ± 0.5		36 mm x 24 TPI R.H.

*Reference JIS B 0225



T47 85.5

Road Bottom Bracket Frame Shell Specification



PressFit 30

Road Bottom Bracket Frame Shell Specification

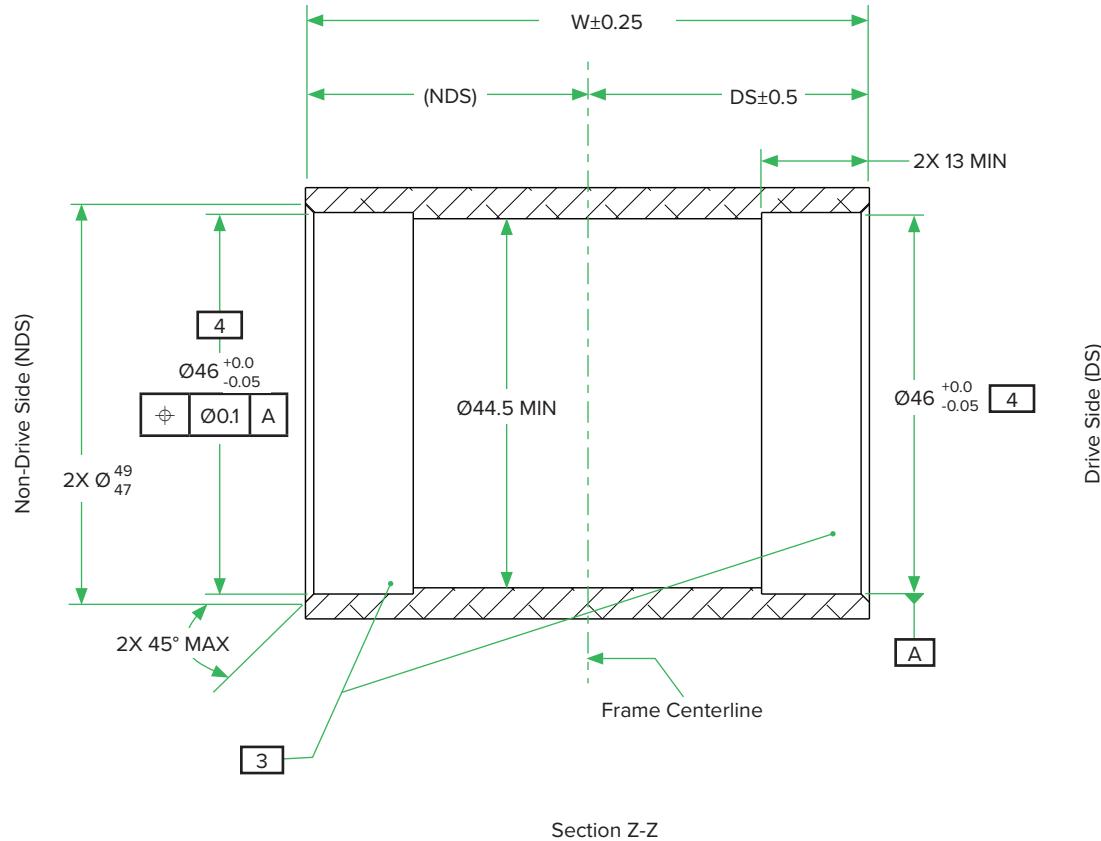
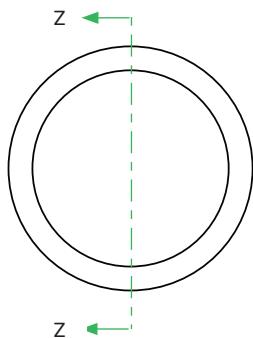
SRAM PressFit 30 (PF30) bottom brackets have been designed and tested to work within the bounds of the dimensions and tolerances in the shell specifications. Materials, manufacturing methods, and frame shell designs can potentially influence the performance of the bottom bracket, even when the shell is manufactured to these specifications. In these instances, it is recommended that bicycle manufacturers confirm the bottom bracket system performance when implemented in their design.

Things that should be considered when evaluating the frame and bottom bracket interaction include, but are not limited to:

- Loosening of the adapter cups from the bottom bracket shell (frame material choice can greatly affect friction coefficient).
- Binding of bearings within the bottom bracket.

For more information regarding PF30 bottom bracket technical information, contact your SRAM representative.

	Dim W	Dim DS	Dim NDS
PF30 68	68		34
PF30 73-A	73	34	39
PF30 79-A 4	79	34	45
PF30 83-A	83	39	44
PF30 86.5	86.5		43.25

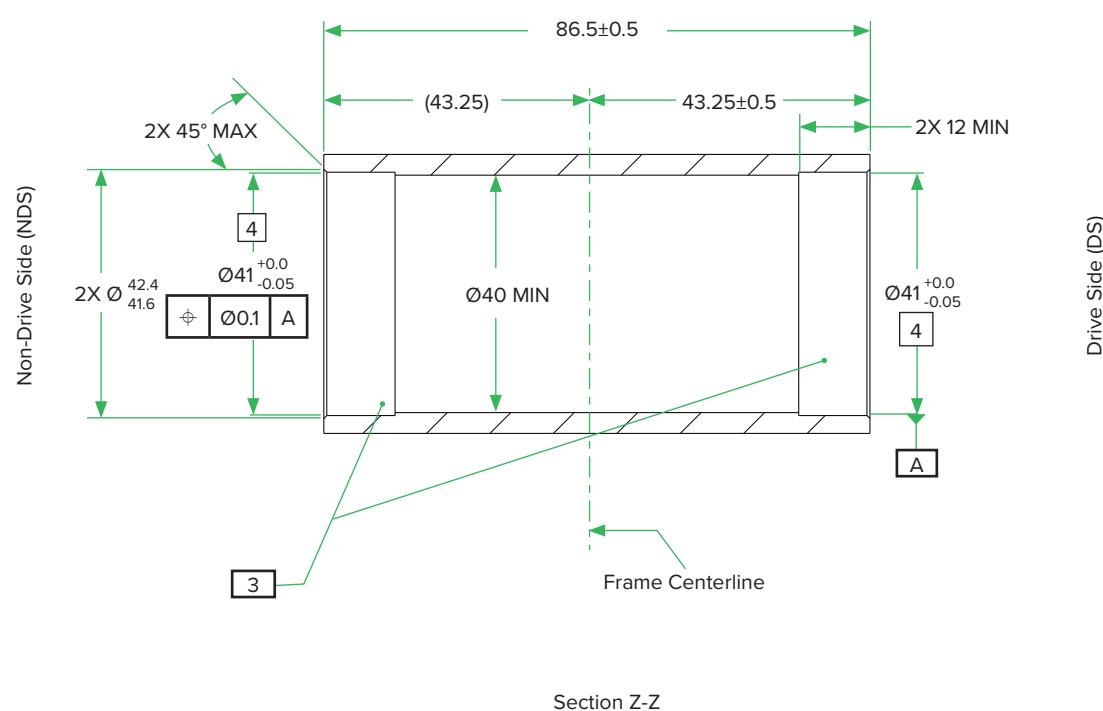
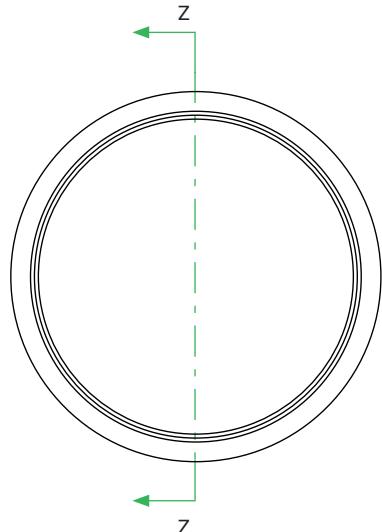


Section Z-Z

- 1 Dimensions apply after finishing.
- 2 Only dimensions essential to bottom bracket PressFit and function are shown. All other details are left to the discretion of the frame or component designer. Dimensions shown do not take the place of proper frame, bottom bracket shell, or crankset design.
- 3 PressFit surfaces should be unpainted.
- 4 PF30 79-A Only: Ø45.88-45.96

PressFit Road 86.5

Road Symmetric Frame Shell Specification



1 Dimensions apply after finishing.

2 Only dimensions essential to bottom bracket PressFit and function are shown. All other details are left to the discretion of the frame or component designer. Dimensions shown do not take the place of proper frame, bottom bracket shell, or crankset design.

3 PressFit surfaces should be unpainted.

4 Tolerance applies to depth of 12 mm inboard from the outer face of each side.

BB30

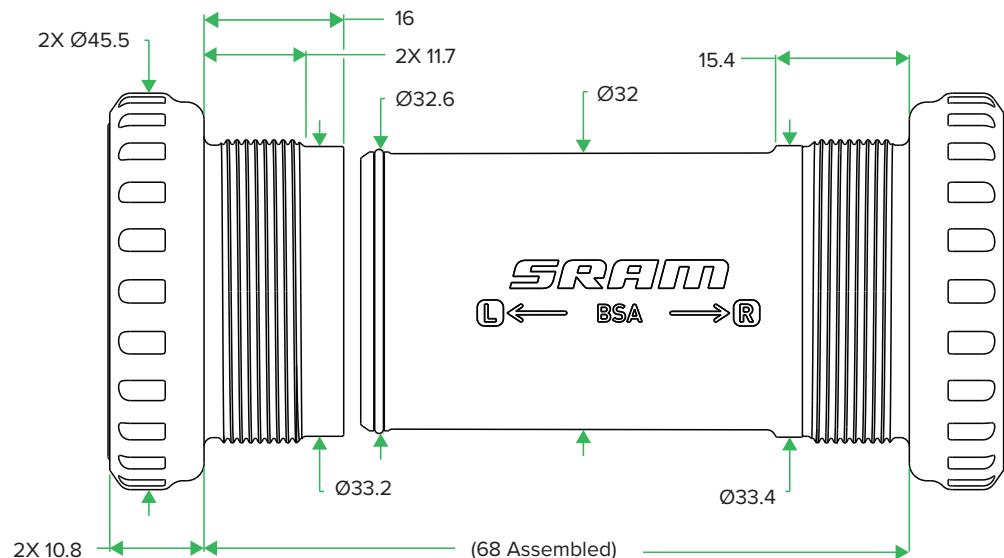
Information

Information for the BB30 drawing and legal agreement can be found on www.BB30standard.com. Use of the information contained in the drawing is forbidden without reviewing and agreeing to the legal terms and conditions found on www.BB30standard.com. By using the information contained in the drawing you are certifying that you have agreed to the terms and conditions found within that legal agreement.

DUB Bottom Brackets

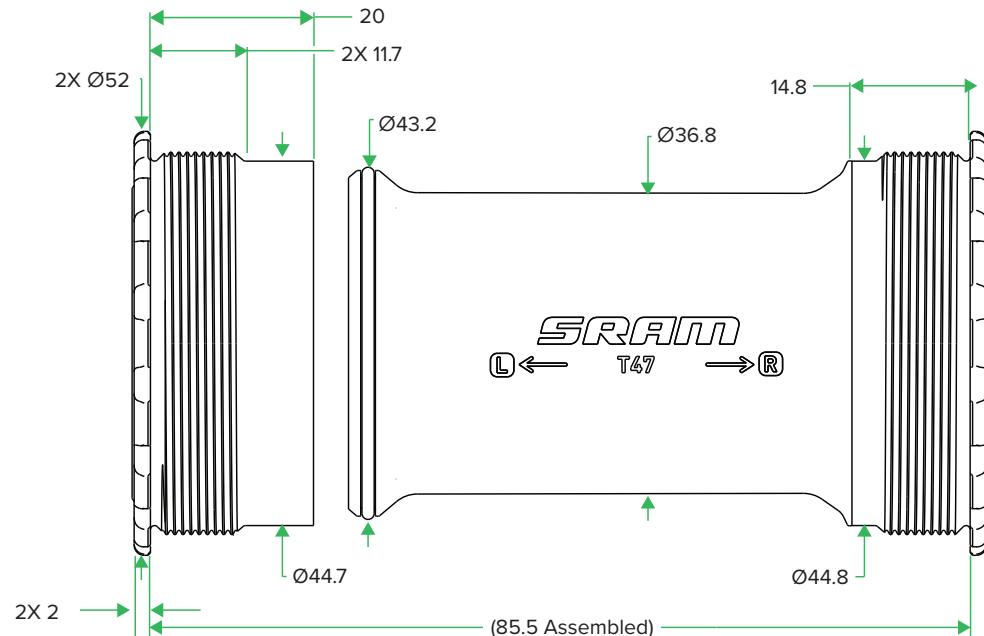
DUB BSA 68

Bottom Bracket Specification



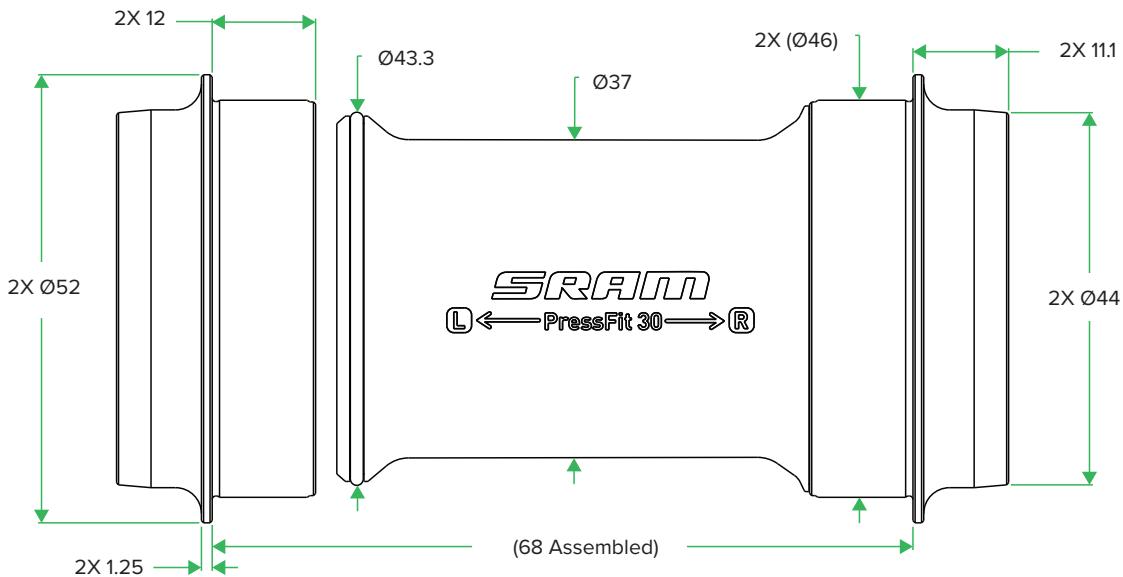
DUB T47 85.5

Bottom Bracket Specification



DUB PressFit 30

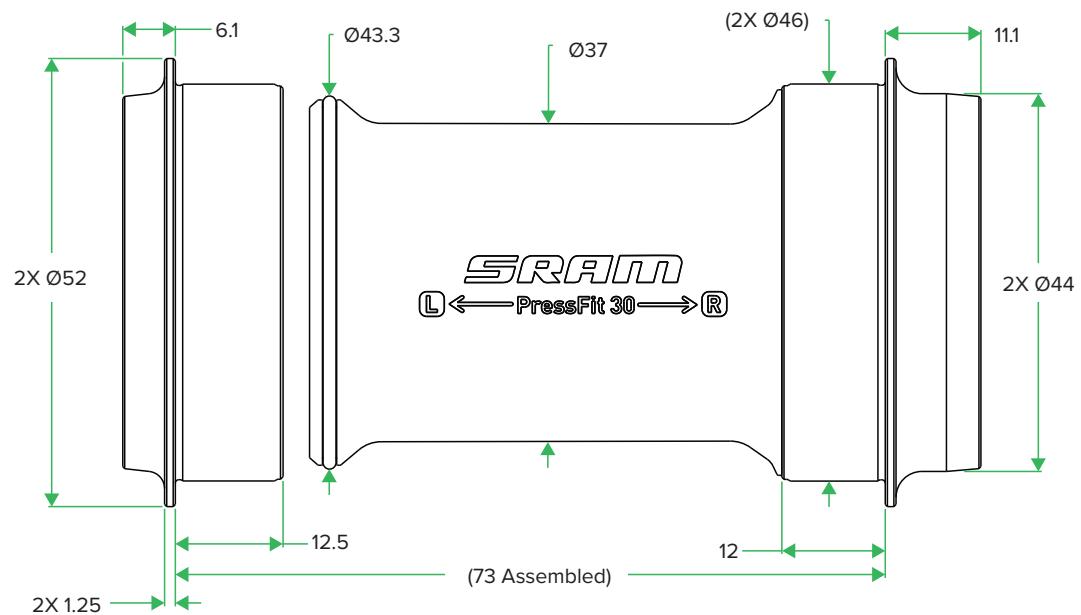
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB PressFit 30 73-A

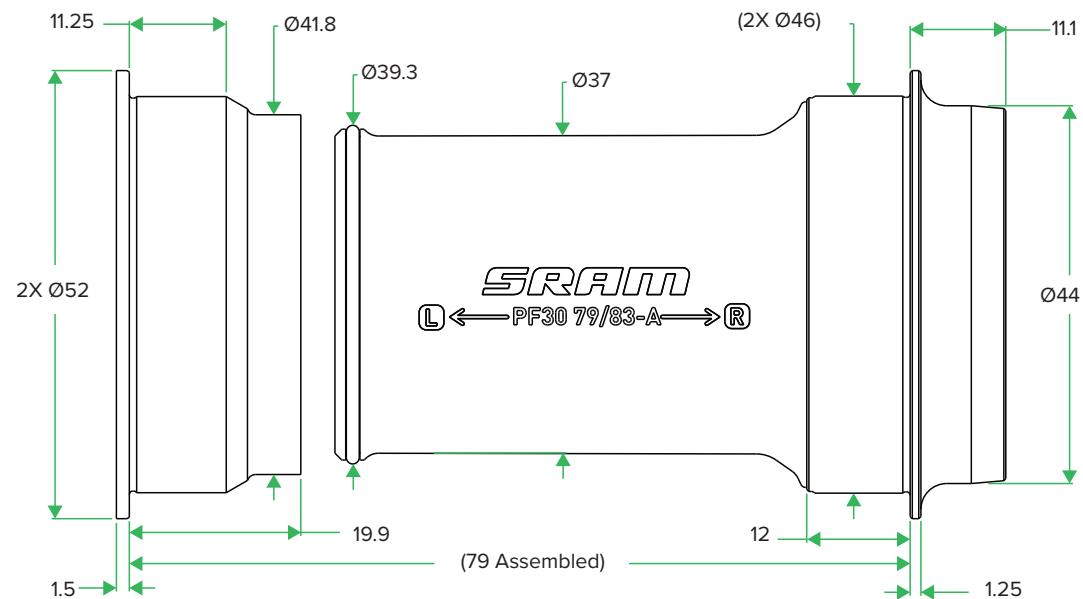
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB PressFit 30 79-A

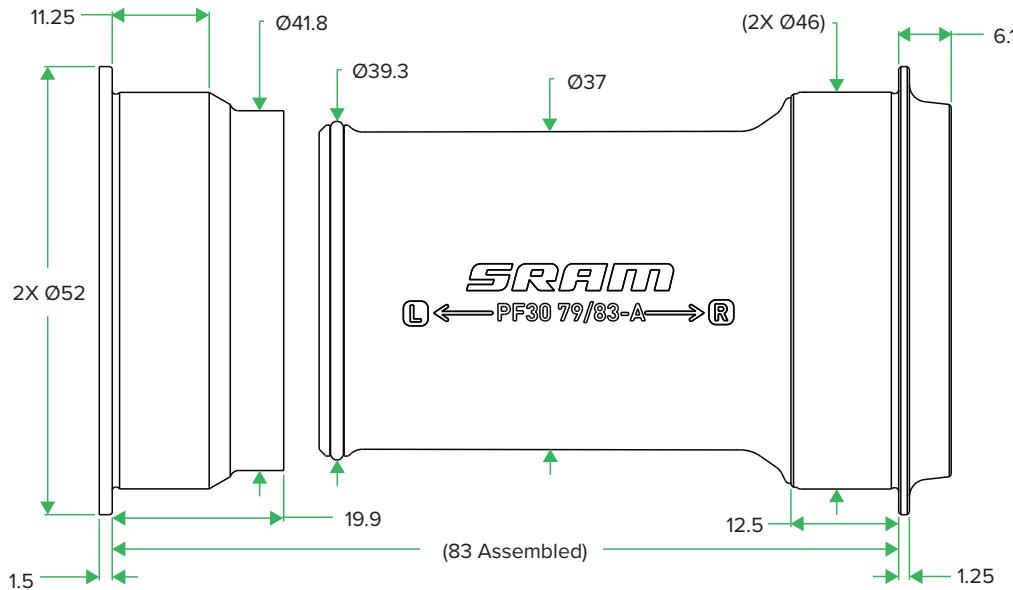
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB PressFit 30 83-A

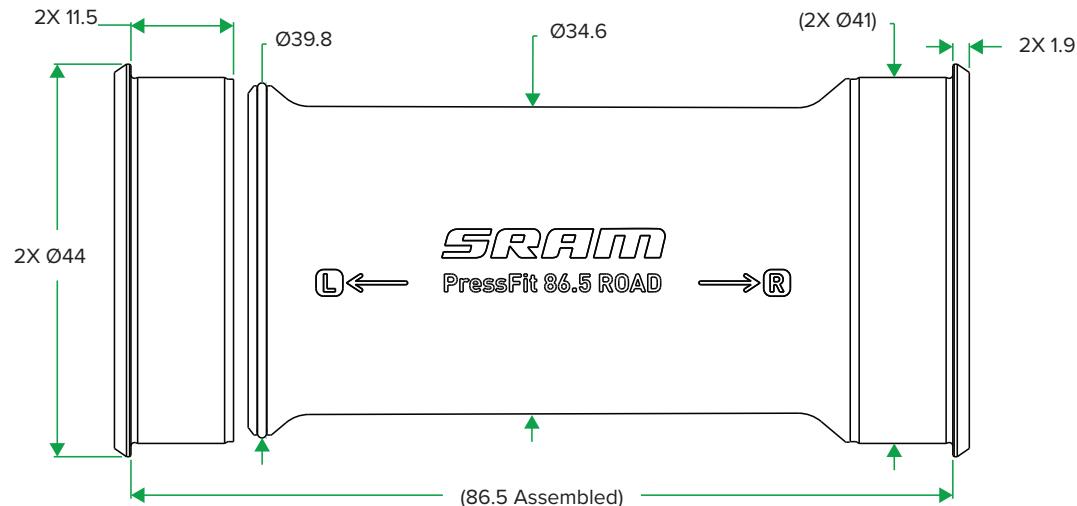
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB PressFit 86.5

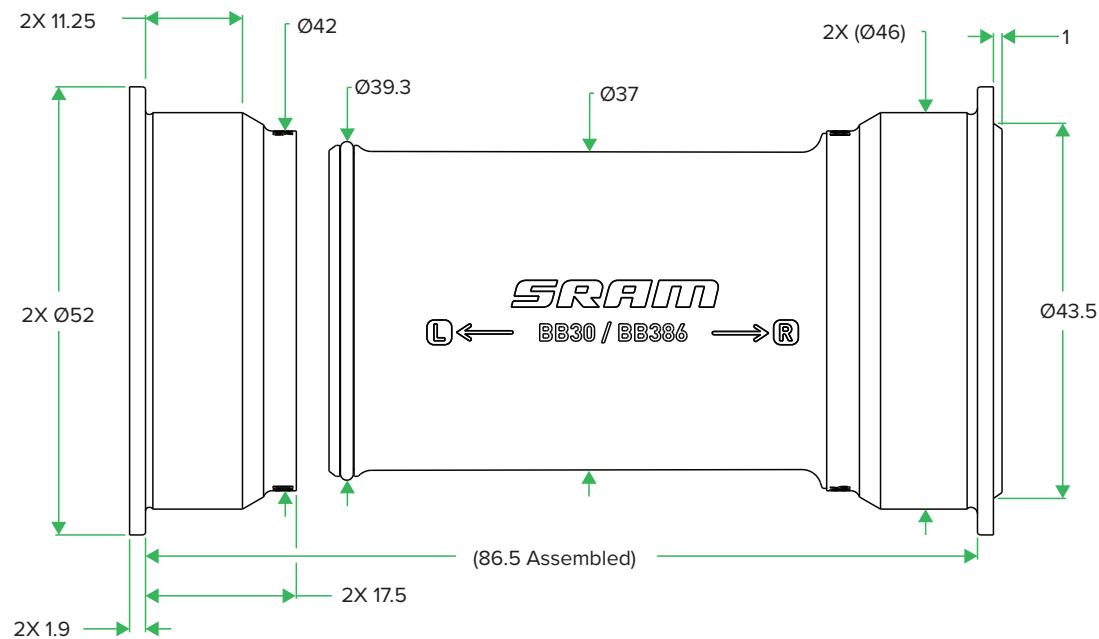
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB BB386

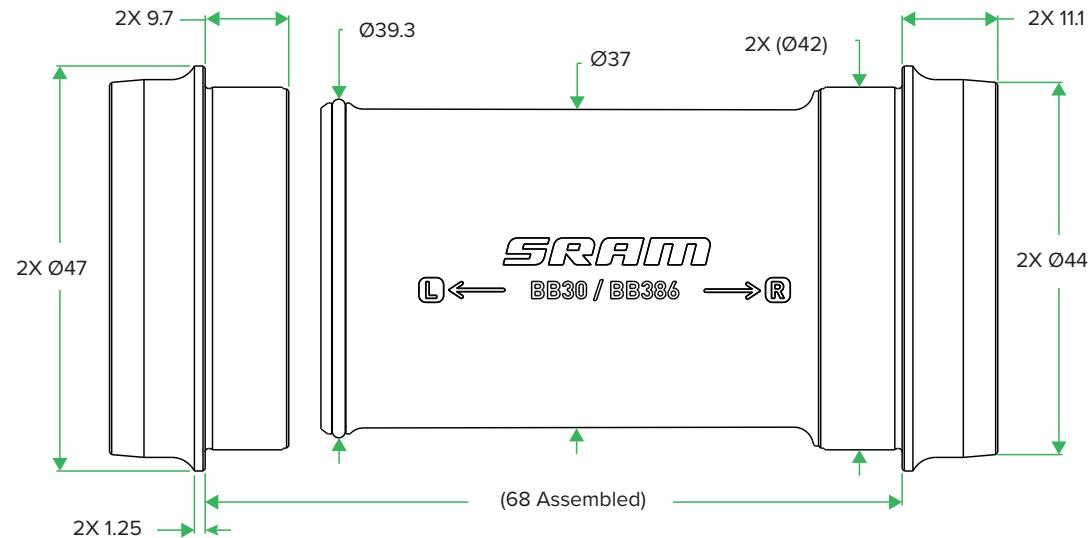
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB BB30

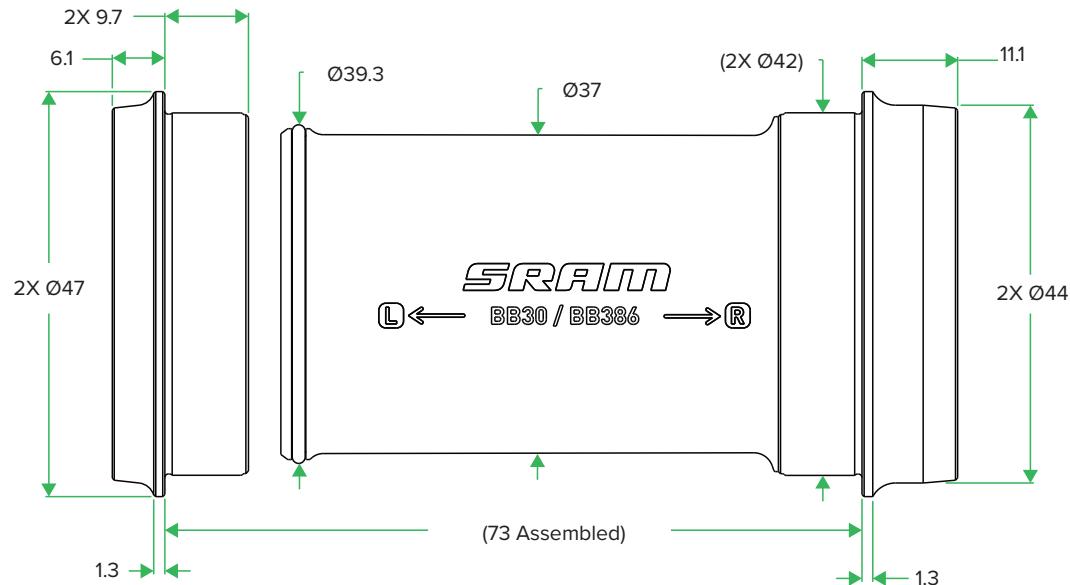
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB BB30 73-A

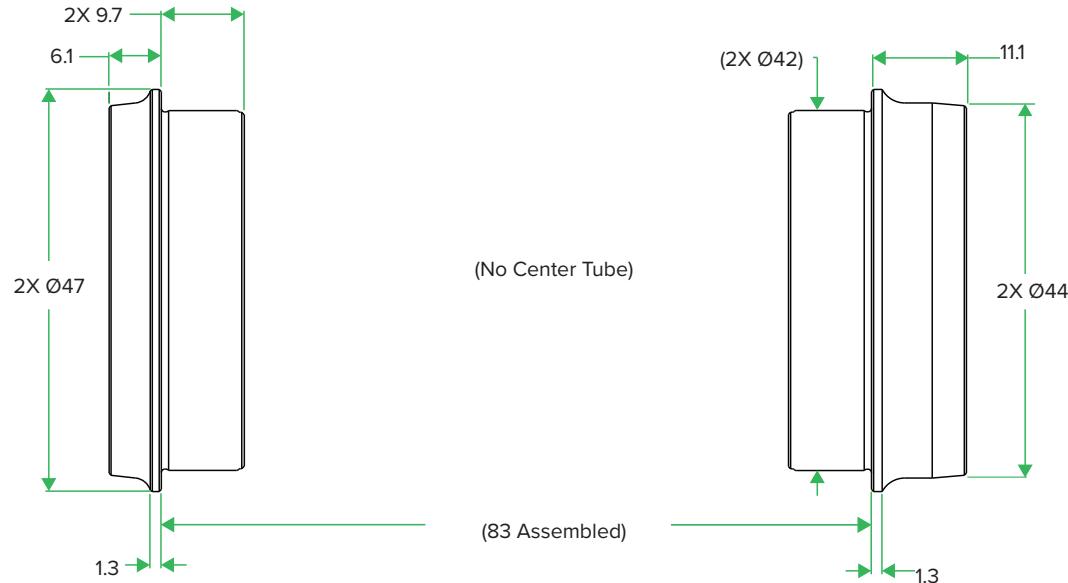
Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

DUB BB30 83-A

Bottom Bracket Specification



1 Consider cable and hose clearances through the bottom bracket area of the frame.

Brakes

Safety Guidelines for Rotor Size and Brake Pad Material

All SRAM Road Hydraulic Disc Brakes

Riding Type	Intended Use	Brake pad material	Minimum rotor size (mm)
	Road Riding	Organic	160
	Closed Course Racing	Organic or Metal Sintered	140

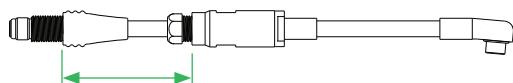
⚠WARNING - CRASH HAZARD

SRAM disc brakes pass laboratory testing designed to simulate worst case riding conditions. The rotor size and pad compound materials recommendations were generated through controlled testing. Use of any combination not mentioned above will void the warranty and could result in a crash.

SRAM Force eTap AXS

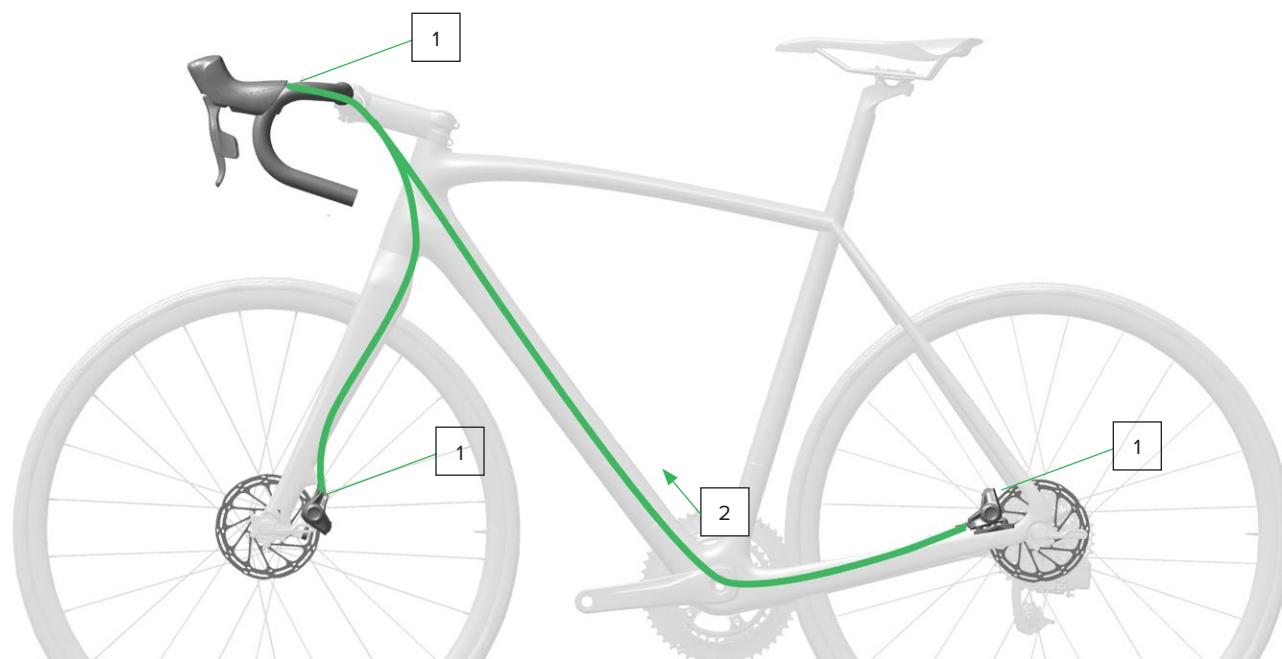
Disc Brake Hose Length Specification

SJ (Stealth-a-majig)



Measured hose length

1

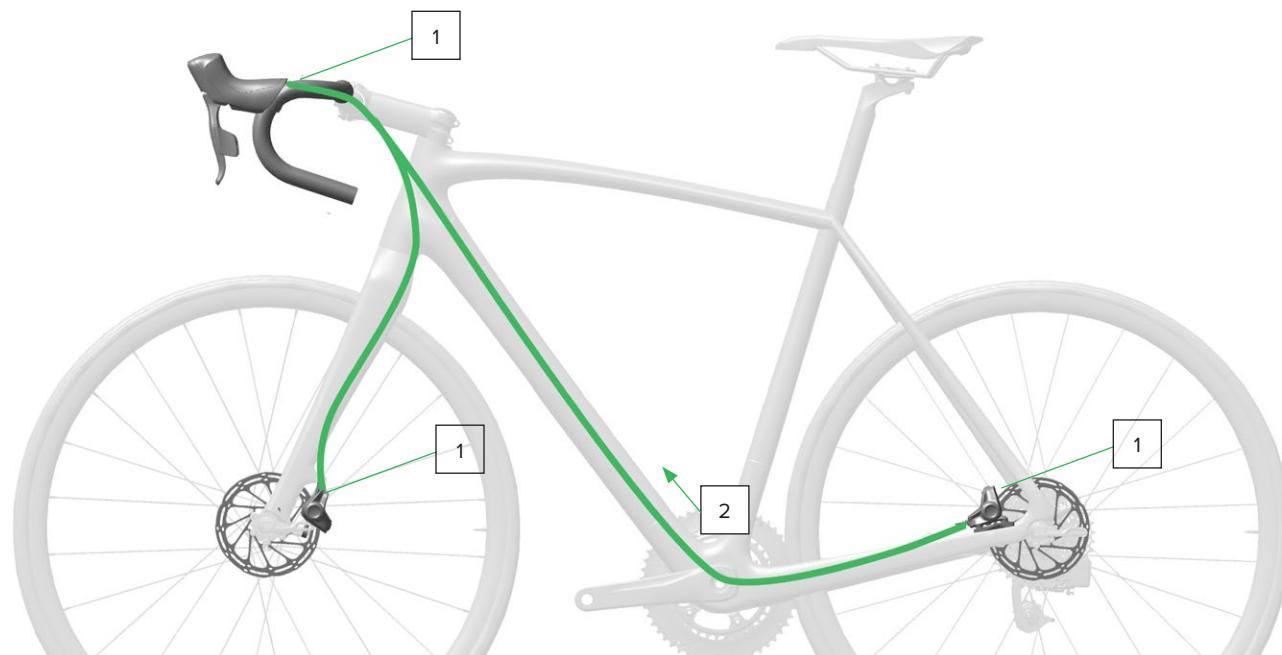
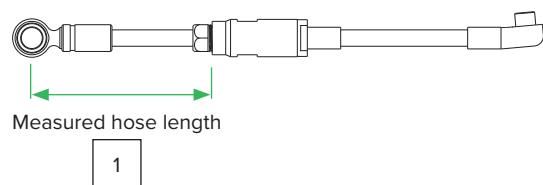


- 1 FG (Finished Good) hose equals the measured hose length from the hood/handlebar interface to the caliper plus 20 mm.
- 2 The SJ hose routing is from back to front of bike.
- 3 For internal routing, the SJ connection requires a hole in the frame or fork that is at least Ø5.1 mm.
- 4 Hose bend radius at 20° C = 30 mm minimum.
- 5 All surfaces that come in contact with brake hose to be free of burrs and sharp edges.
- 6 Stealth-a-majig for initial assembly only. A bleed is required if the system is disconnected and reconnected.
- 7 SRAM Brake systems are not compatible with mineral based fluids such as damping fluid, mineral oil, fork fluid, or RockShox Reverb fluid. **Use only DOT 4 or DOT 5.1 fluids with SRAM Hydraulic brakes.**

SRAM RED eTap AXS

Disc Brake Hose Length Specification

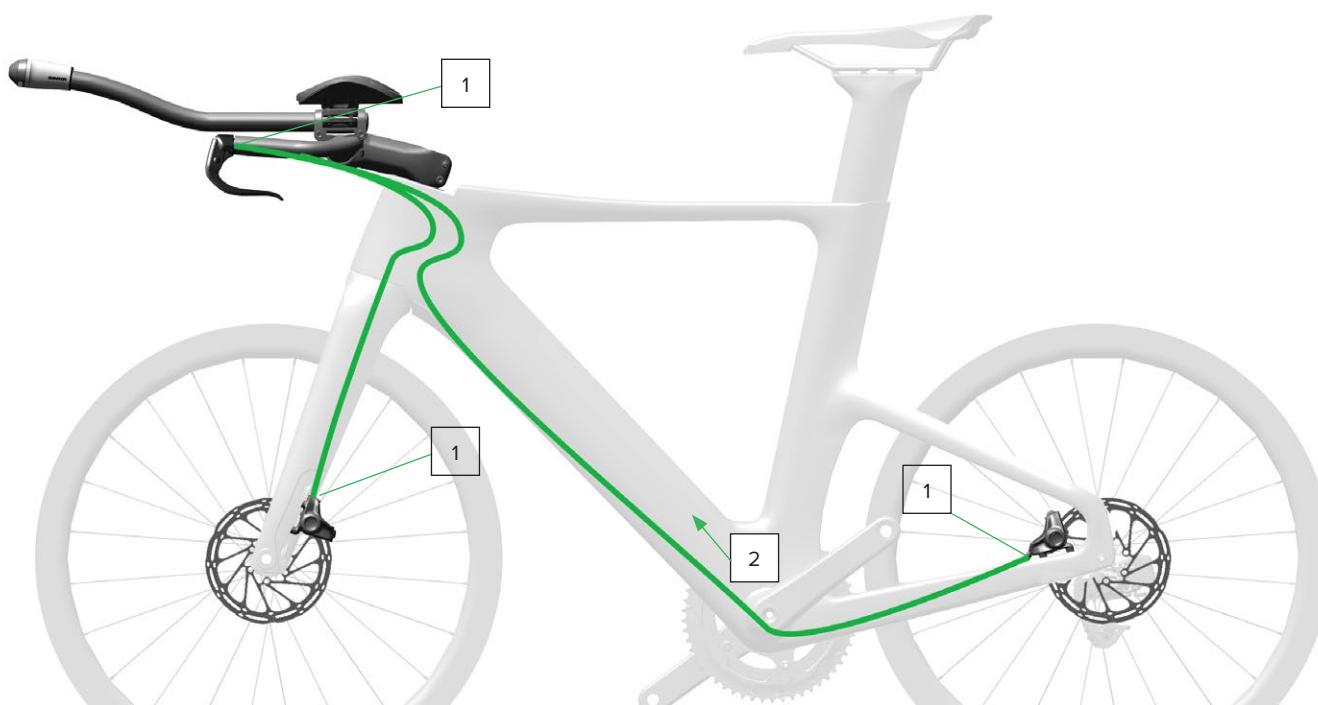
SJ (Stealth-a-majig)



- 1 FG (Finished Good) hose equals the measured hose length from the hood/handlebar interface to the caliper plus 10 mm.
- 2 The SJ hose routing is from back to front of bike.
- 3 For internal routing, the SJ connection requires a hole in the frame or fork that is at least Ø5.1 mm.
- 4 Hose bend radius at 20° C = 30 mm minimum.
- 5 All surfaces that come in contact with brake hose to be free of burrs and sharp edges.
- 6 Stealth-a-majig for initial assembly only. A bleed is required if the system is disconnected and reconnected.
- 7 SRAM Brake systems are not compatible with mineral based fluids such as damping fluid, mineral oil, fork fluid, or RockShox Reverb fluid. **Use only DOT 4 or DOT 5.1 fluids with SRAM Hydraulic brakes.**

S-900 Aero HRD

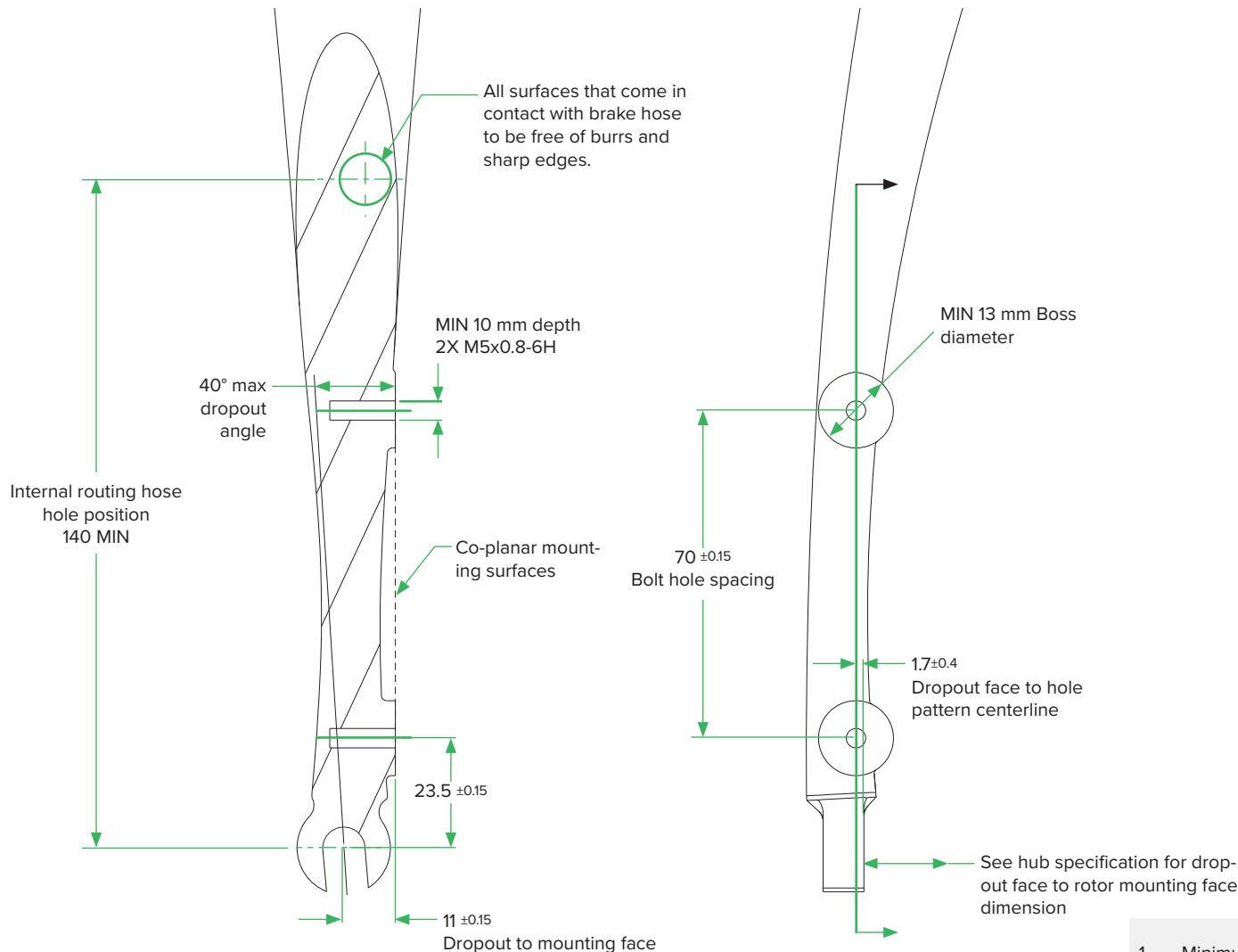
Disc Brake Hose Routing Specification



- 1 FG (Finished Good) hose equals the hose length from the hood/handlebar interface to the caliper.
- 2 The SJ hose routing is from back to front of bike.
- 3 For internal routing, the SJ connection requires a hole in the frame or fork that is at least Ø5.1 mm.
- 4 Hose bend radius at 20° C = 30 mm minimum.
- 5 All surfaces that come in contact with brake hose to be free of burrs and sharp edges.
- 6 Stealth-a-majig for initial assembly only. A bleed is required if the system is disconnected and reconnected.
- 7 SRAM Brake systems are not compatible with mineral based fluids such as damping fluid, mineral oil, fork fluid, or RockShox Reverb fluid. **Use only DOT 4 or DOT 5.1 fluids with SRAM Hydraulic brakes.**

Flat Mount Fork Specification

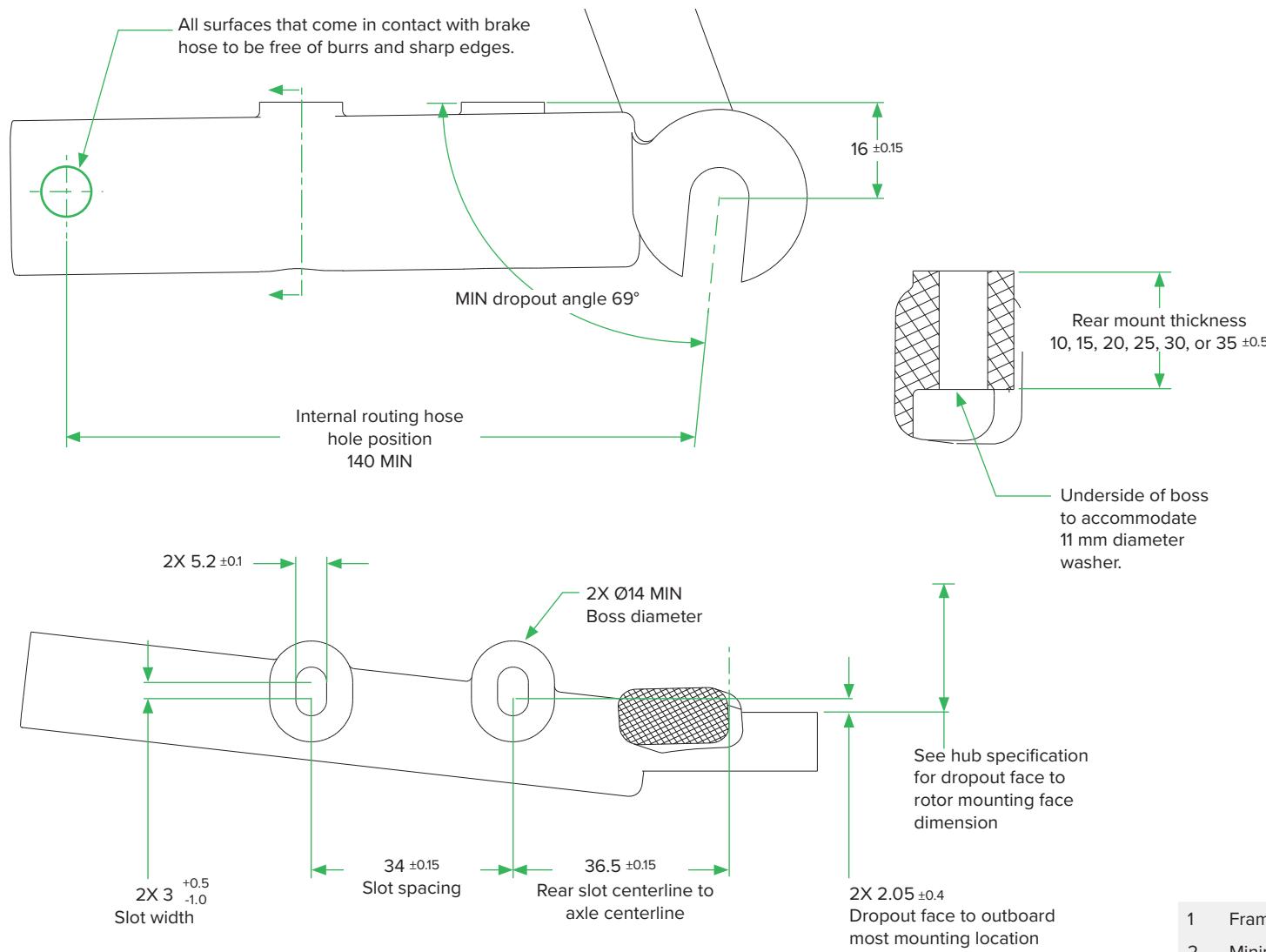
All SRAM Flat Mount Calipers



1 Minimum internal routing hole position does not apply to Connect-a-majig.

Flat Mount Frame Specification

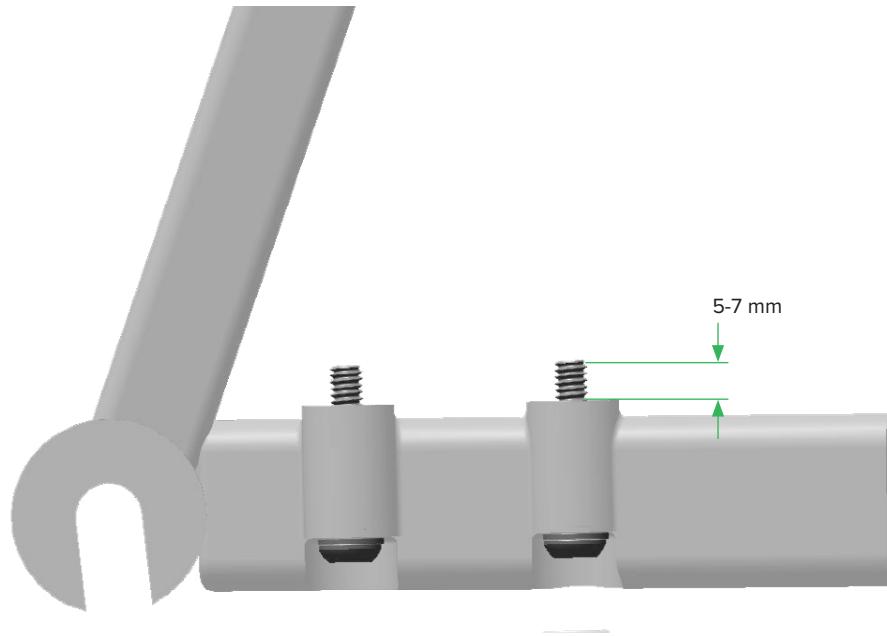
All SRAM Flat Mount Calipers



- 1 Frame and caliper interface may reach 120°C.
- 2 Minimum internal routing hole position does not apply to Connect-a-majig.

Flat Mount Frame Specification

All SRAM Flat Mount Calipers



⚠WARNING - CRASH HAZARD

There must be 5-7 mm of mounting bolt thread engagement when mounting brake calipers to forks and frames with flat mount hardware and brackets. Riding a bike with improper bolt engagement can allow the brakes to disengage from the bicycle, which can lead to a crash and serious injury or death to the rider.

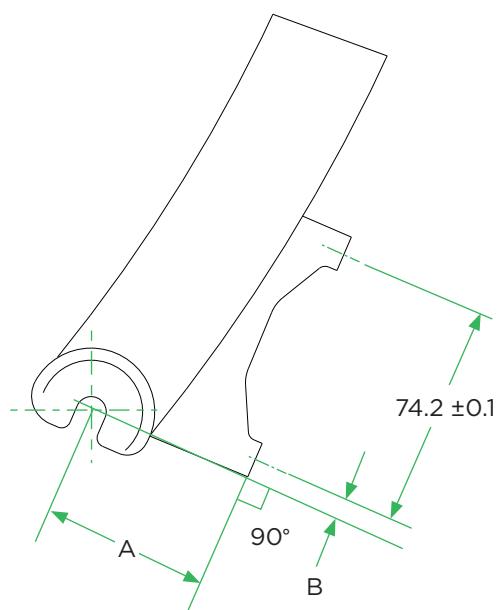
1 Available in rear bolt lengths: 17, 22, 27, 32, 37,
and 42 mm

Post Mount Fork Specification

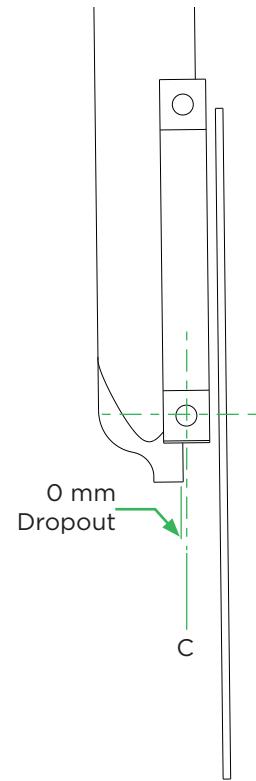
All SRAM Post Mount Calipers

Direct mount rotor size	A (mm)	B(mm)	C (mm)
140 mm	47.2	2.2	0.94
160 mm	56.0	6.8	

Fork Mount



Fork Mount Dropout

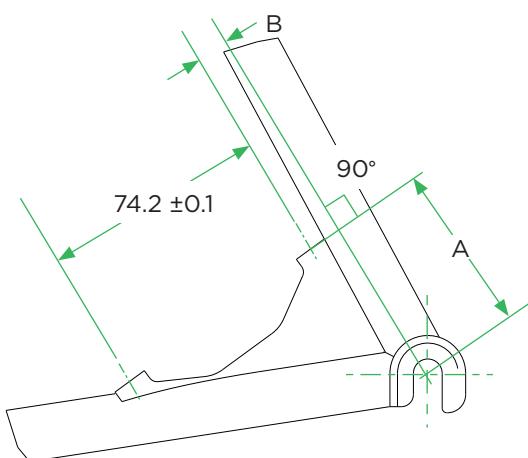


Post Mount Frame Specification

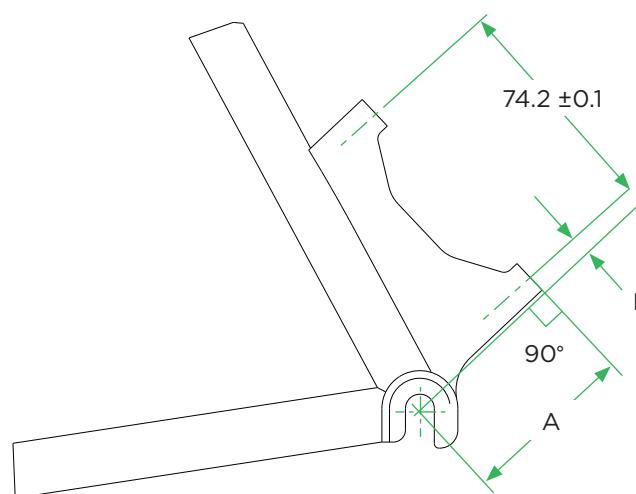
All SRAM Post Mount Calipers

Direct mount rotor size	A (mm)	B(mm)	130 and 135 QR	142 and 148 Thru
			C (mm)	
140 mm	47.2	2.2	5.7	9.2
160 mm	56.0	6.8		

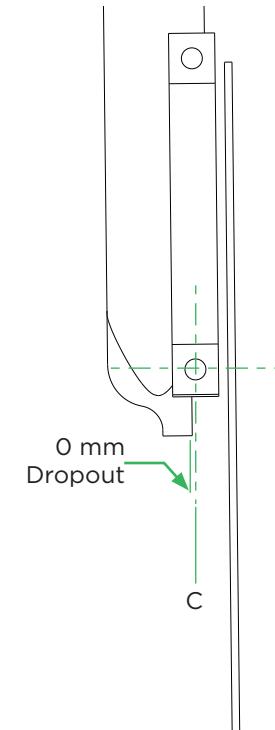
Chainstay Mount



Seatstay Mount



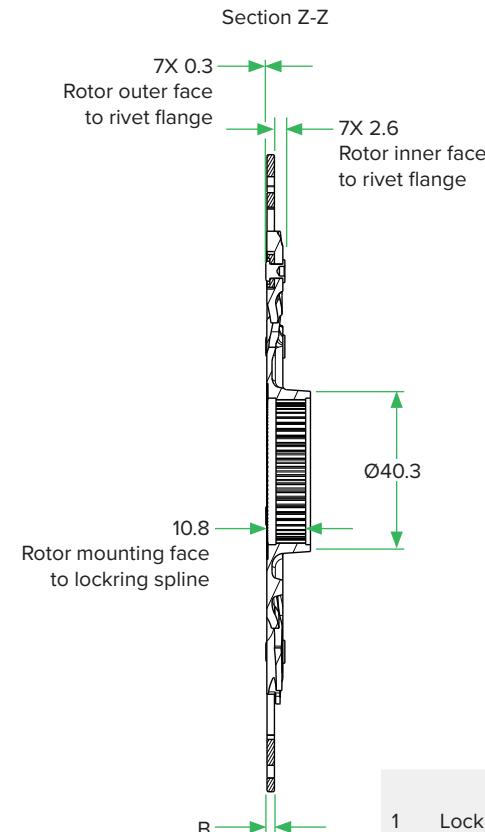
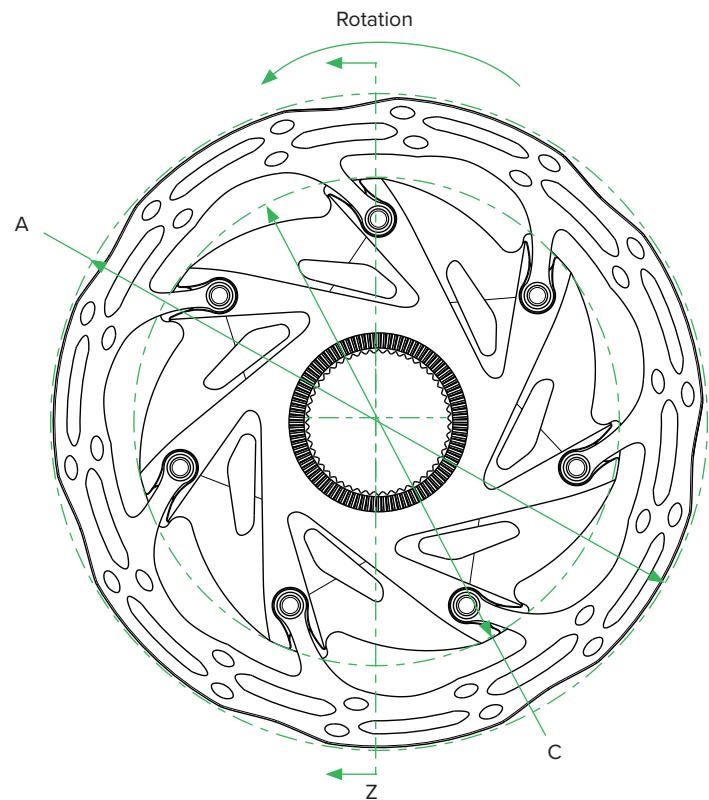
Frame Mount Dropout



SRAM CenterLine XR

Two-piece Center Locking Rotor Dimensions

Rotor	Rotor Size	Radiusued Outer Diameter	Rotor Thickness	Carrier Diameter
		A (mm)	B (mm)	C (mm)
CLX-R	140	140	1.90	100
	160	160	1.85	120

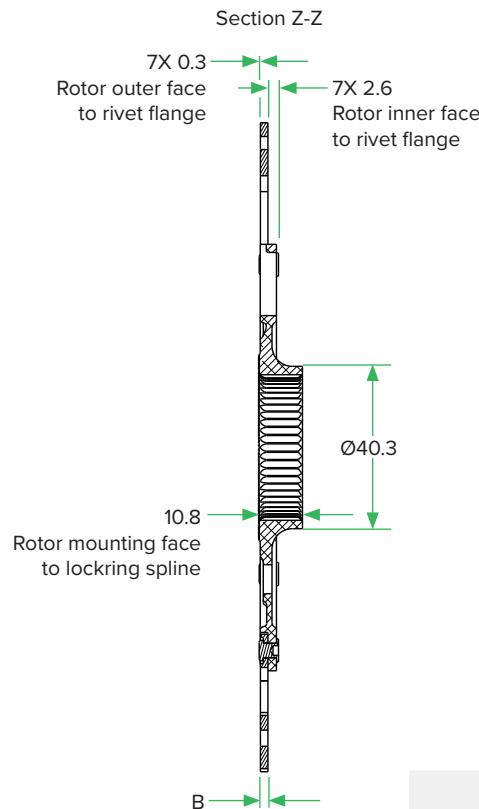
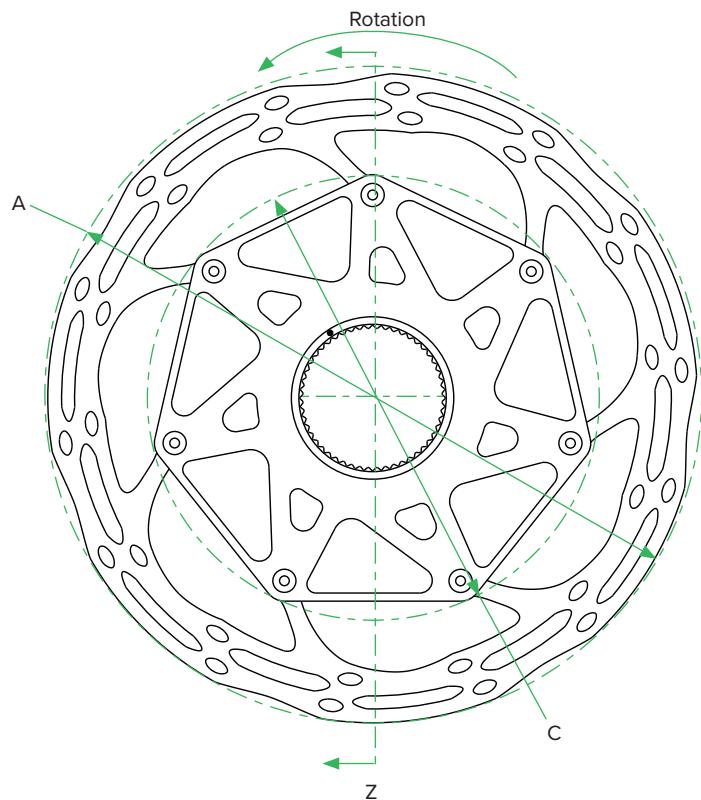


1 Lockring torque to 40 N·m (354 in-lb).

SRAM CenterLine X

Two-piece Center Locking Rotor Dimensions

Rotor	Rotor Size	Radiusized Outer Diameter	Rotor Thickness	Carrier Diameter
		A (mm)	B (mm)	C (mm)
CLX	140	140	1.90	90.1
	160	160	1.85	110.1

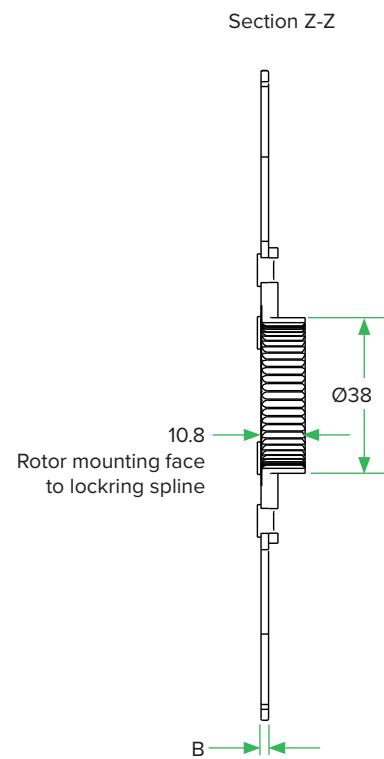
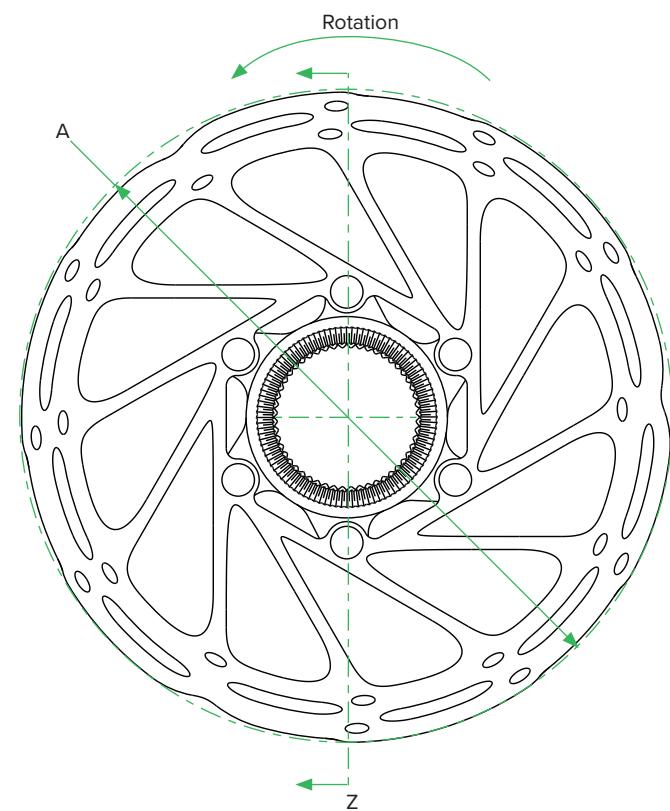


1 Lockring torque to 40 N·m (354 in-lb).

SRAM CenterLine

One-Piece Center Locking Rotor Dimensions

Rotor size	Radiused Outer Diameter		Rotor Thickness
	A (mm)	B (mm)	
140 mm	140		1.85
160 mm	160		

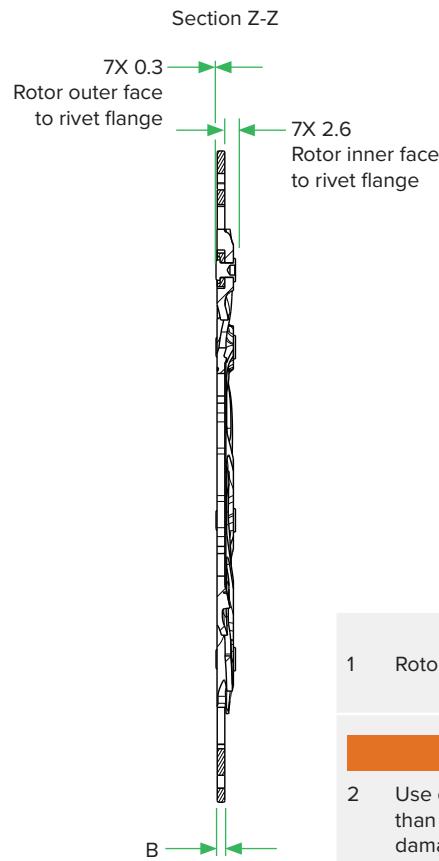
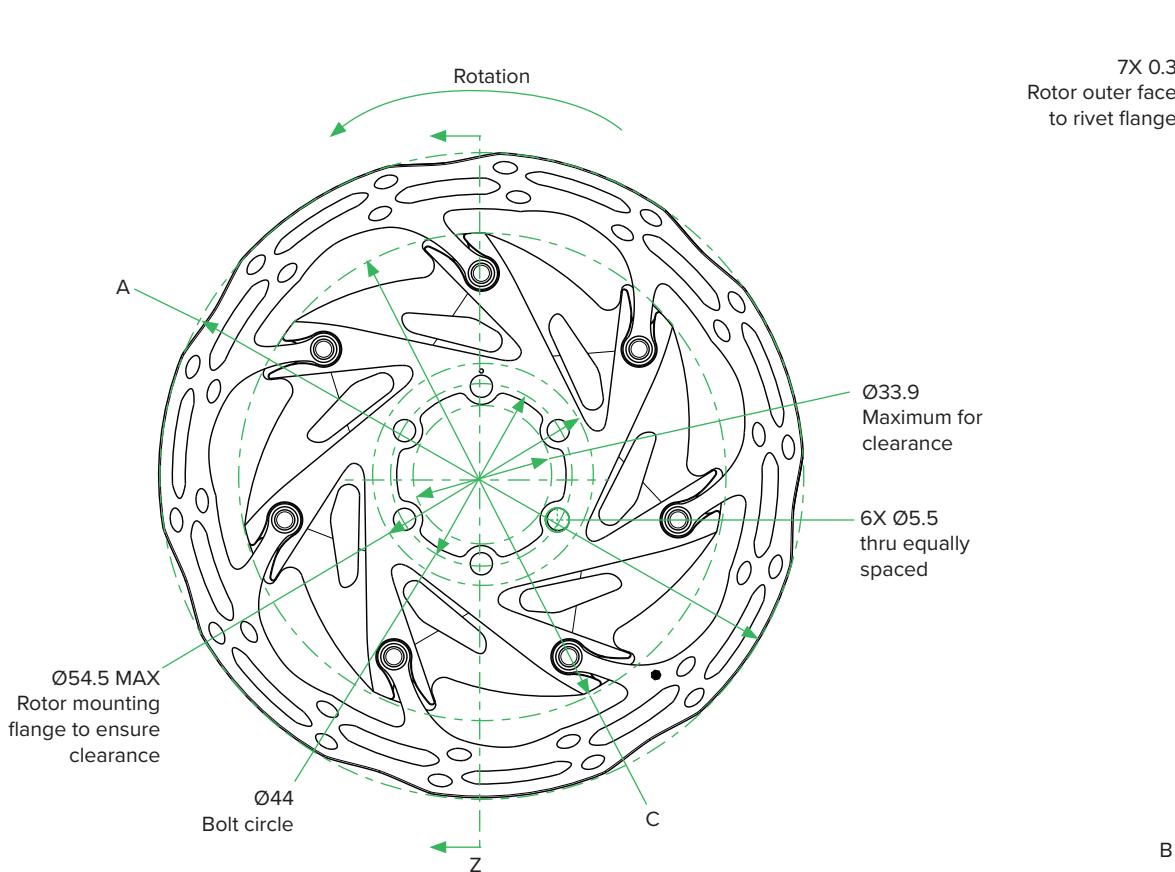


1 Lockring torque to 40 N·m (354 in-lb).

SRAM CenterLine XR

Two-piece 6-Bolt Rotor Dimensions

Rotor	Rotor Size	Radiusized Outer Diameter	Rotor Thickness	Carrier Diameter
		A (mm)	B (mm)	C (mm)
CLX- R	140	140	1.90	100
	160	160	1.85	120



1 Rotor mounting bolt torque value is 6.2 N·m (55 in-lb).

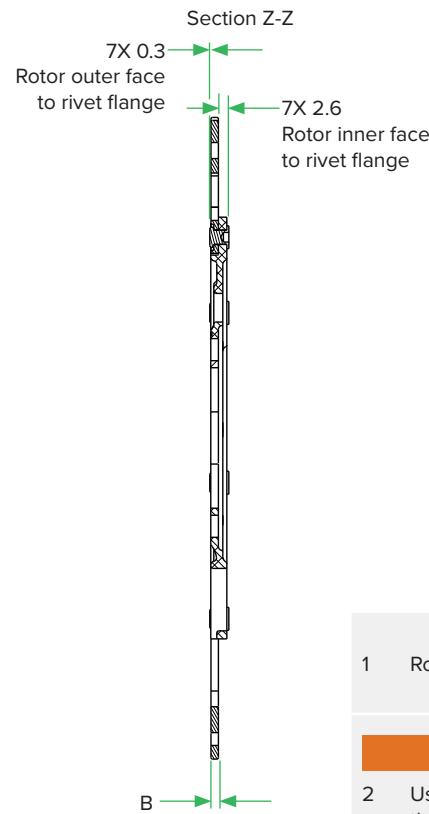
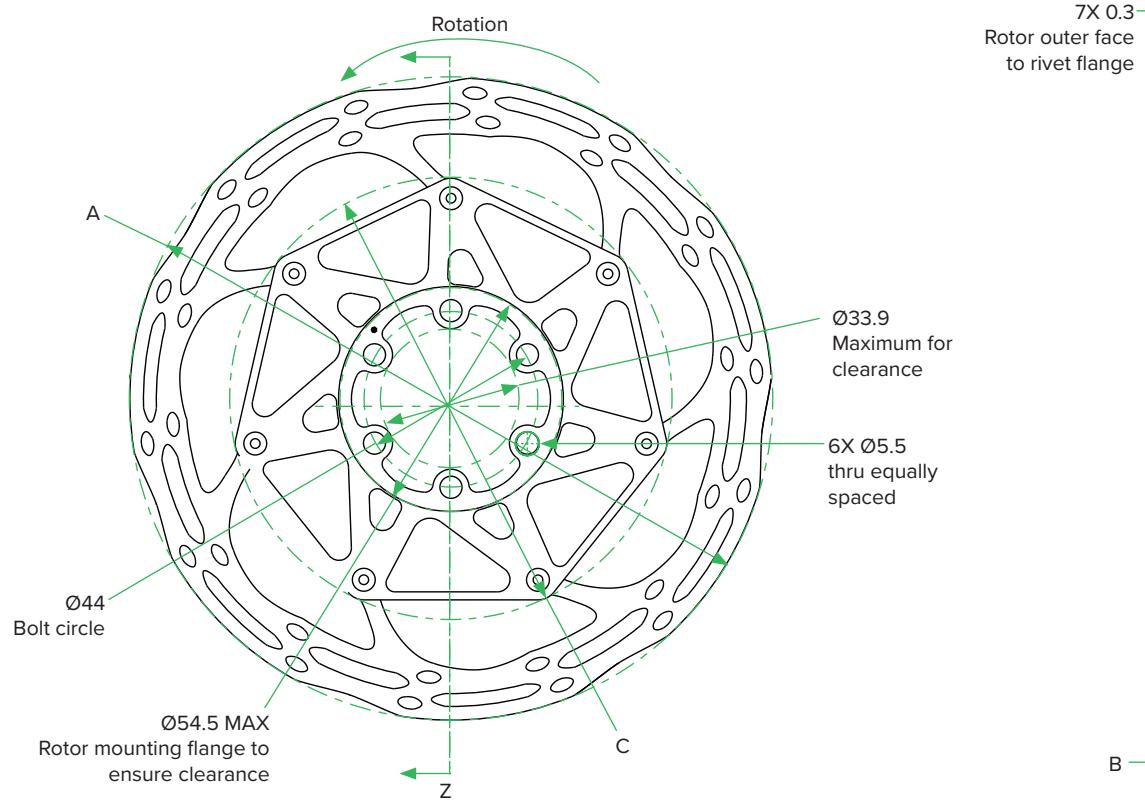
⚠️WARNING

2 Use only 10 mm length rotor bolts. Rotor bolts longer than 10 mm will not properly secure rotor and could damage the hub.

SRAM CenterLine X

Two-piece 6-Bolt Rotor Dimensions

Rotor	Rotor Size	Radiusized Outer Diameter	Rotor Thickness	Carrier Diameter
		A (mm)	B (mm)	C (mm)
CLX	140	140	1.90	90.1
	160	160	1.85	110.1



- 1 Rotor mounting bolt torque value is 6.2 N·m (55 in-lb).

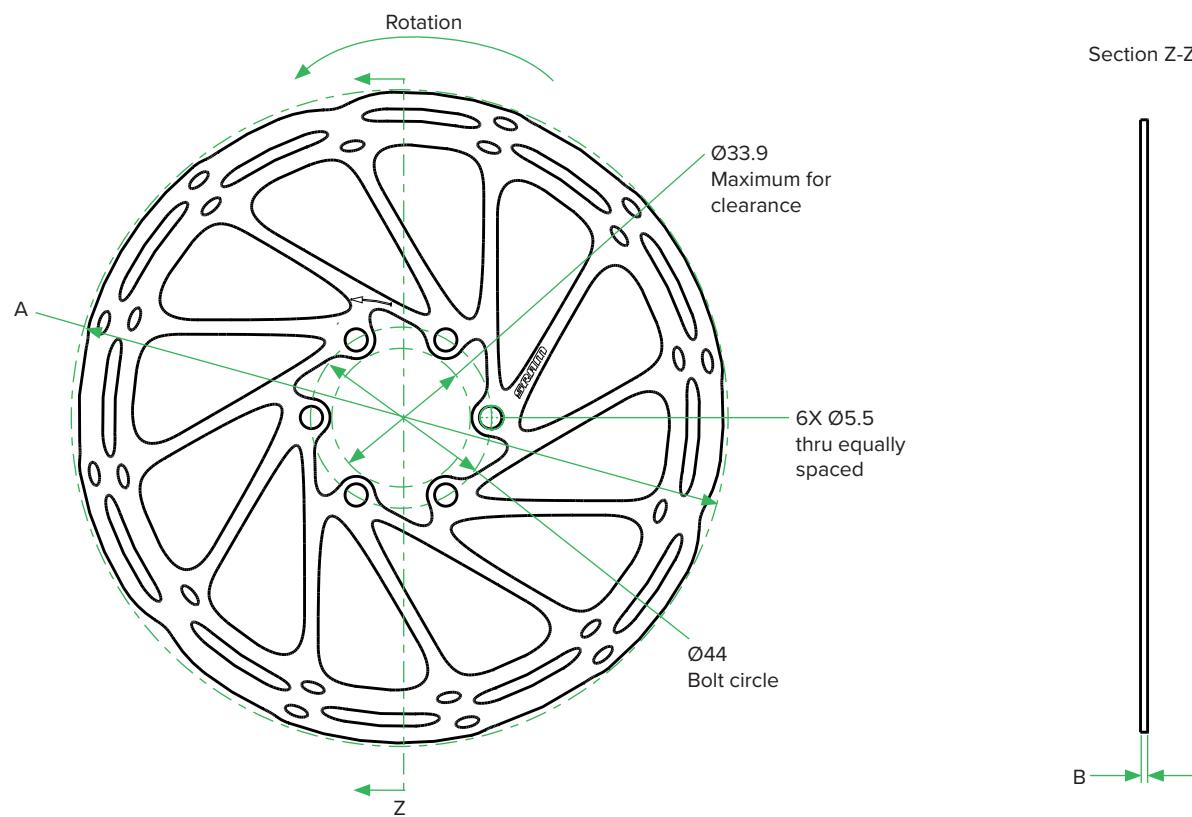
⚠️WARNING

- 2 Use only 10 mm length rotor bolts. Rotor bolts longer than 10 mm will not properly secure rotor and could damage the hub.

SRAM CenterLine

One-piece 6-Bolt Rotor Dimensions

Rotor size	Radiused Outer Diameter		Rotor Thickness
	A (mm)	B (mm)	
140 mm	140		
160 mm	160		1.85



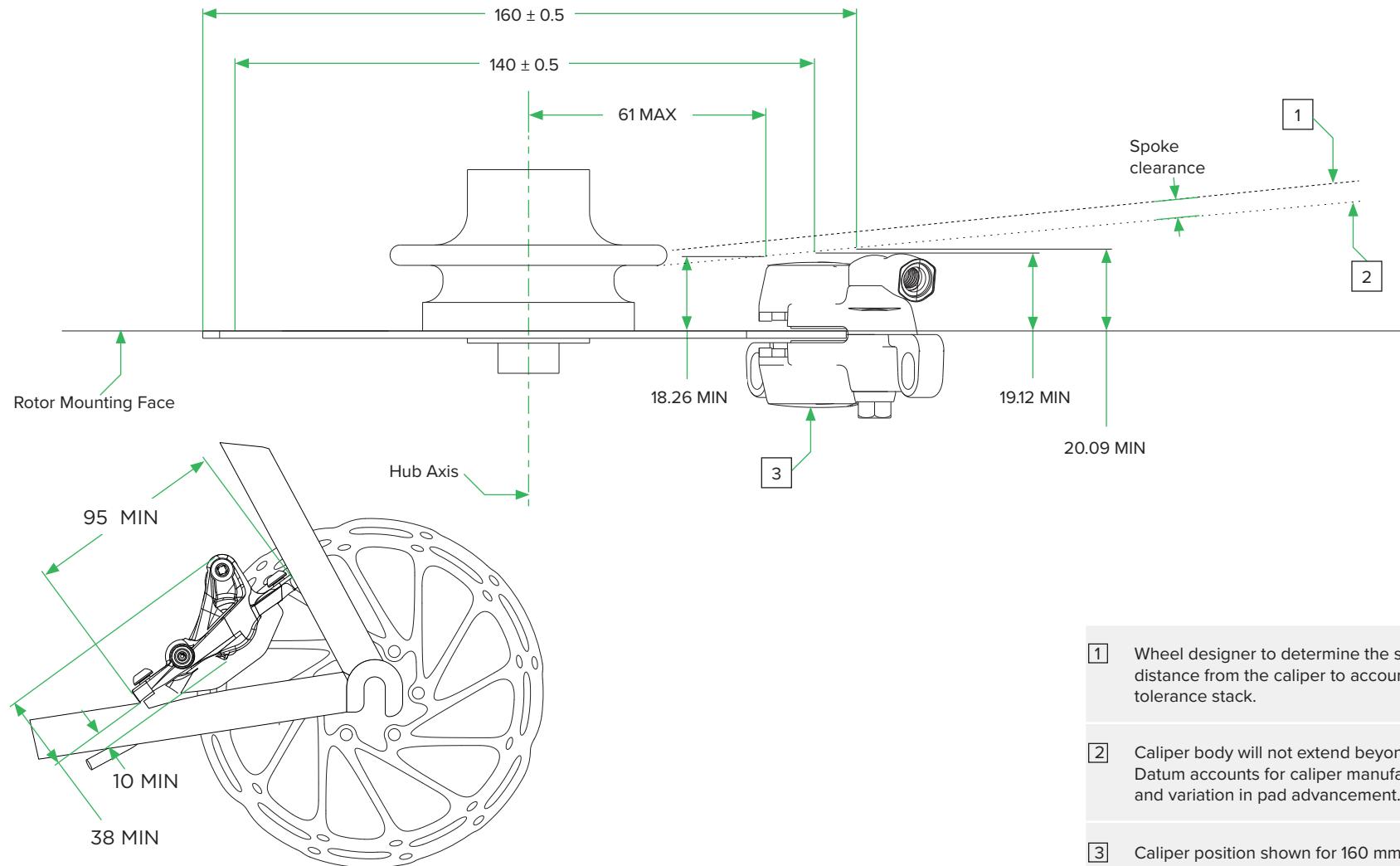
1 Rotor mounting bolt torque value is 6.2 N·m (55 in-lb).

⚠️WARNING

2 Use only 10 mm length rotor bolts. Rotor bolts longer than 10 mm will not properly secure rotor and could damage the hub.

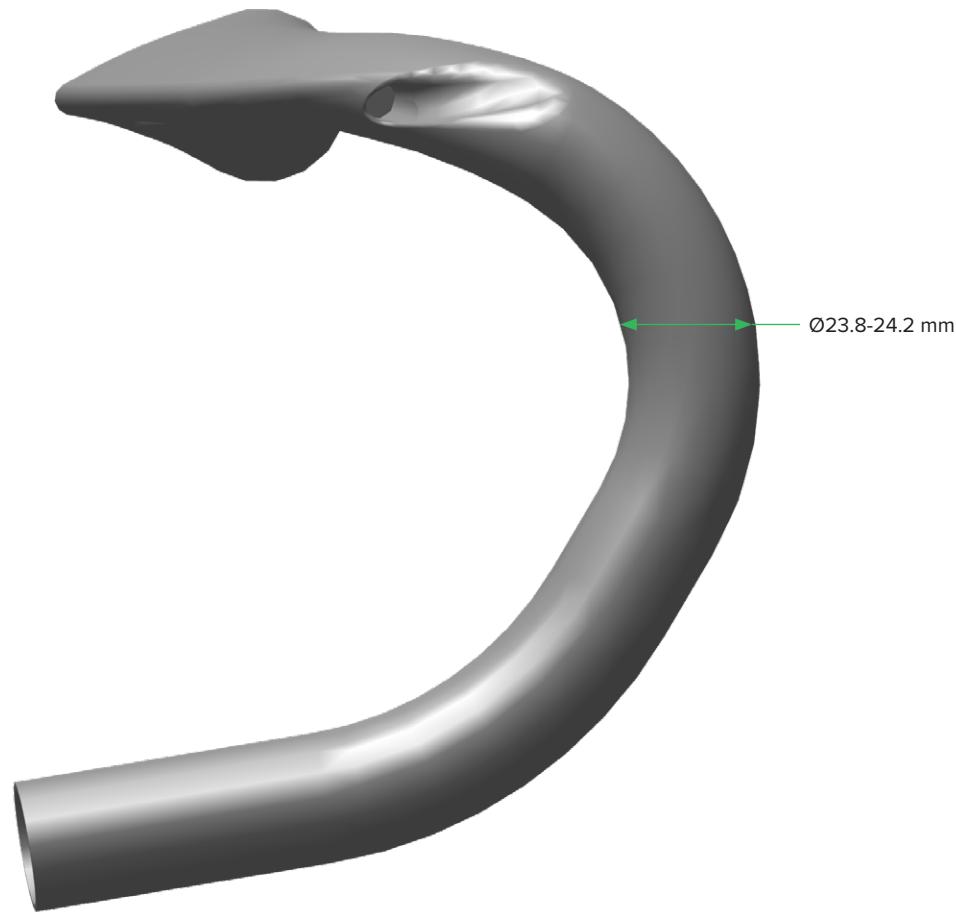
Spoke Clearance

Road Disc Brakes



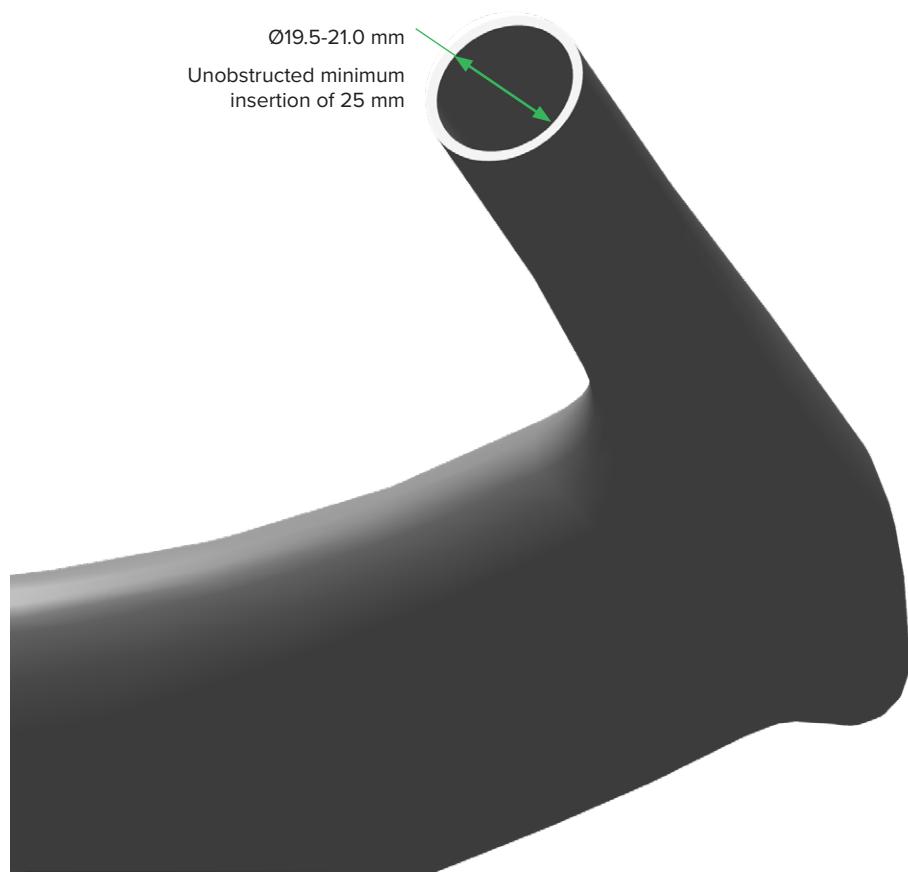
Dropbar Guidelines

Road Electronic Shift-Brake



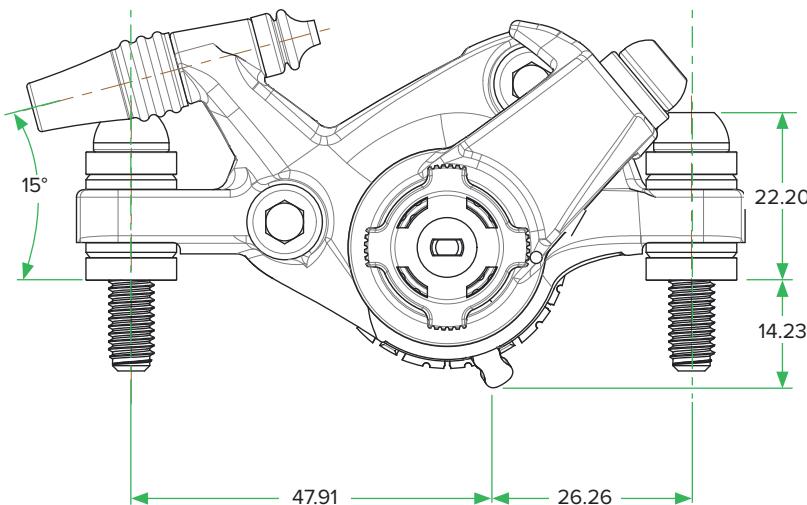
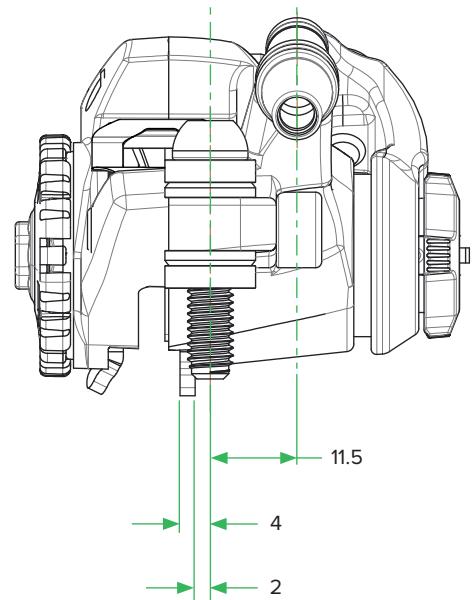
S-900 Aero HRD

Hydraulic Aero Brake Lever Bar Guidelines



BB7/ BB5 Road

Mechanical Disc Brake Clearance



Front Rim Brake Caliper

Direct Mount and Single Pivot Design Dimensions

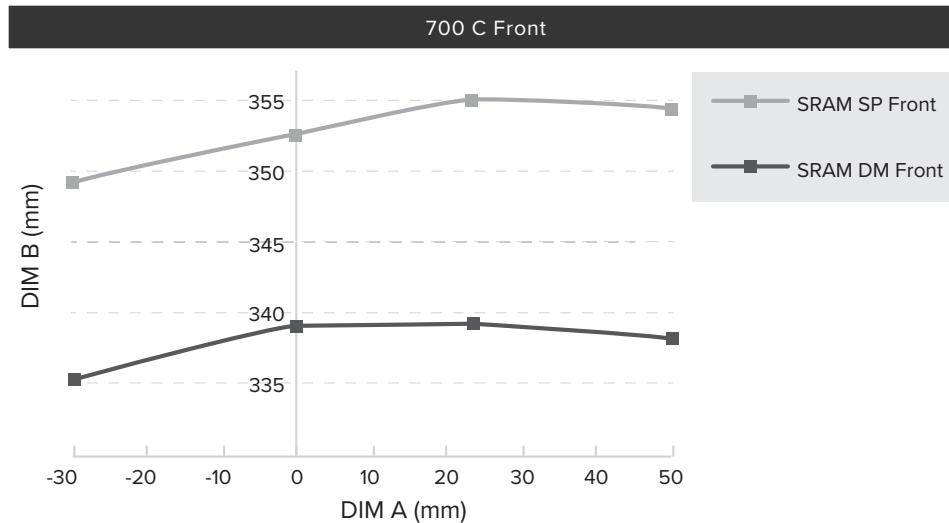
Brake Caliper Pivot Location

700 C	A		-30	0	25	50
	B ±2	SRAM DM Front	335.9	339	339.5	338
		SRAM SP Front	349	353.5	355	354.5

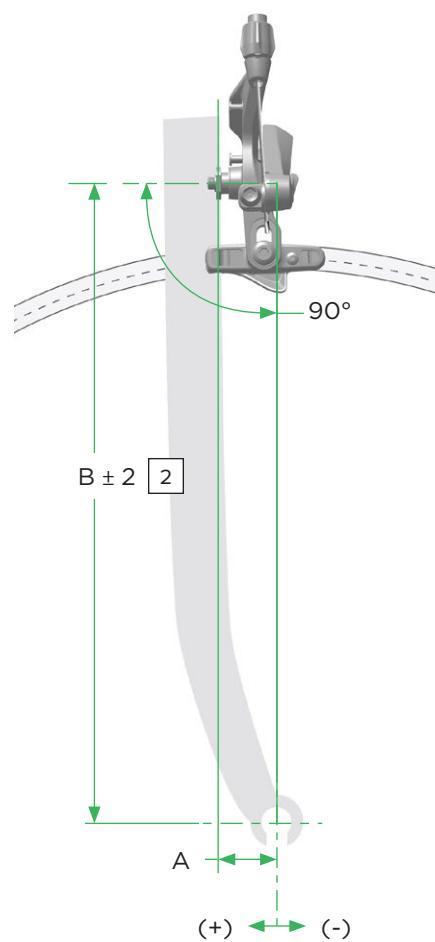
1 For increased tire clearance, make mounting features to the + side of the "B" dimension tolerance limit.

2 For 650c wheels, subtract 26 mm from the 700c "B" dimensions.

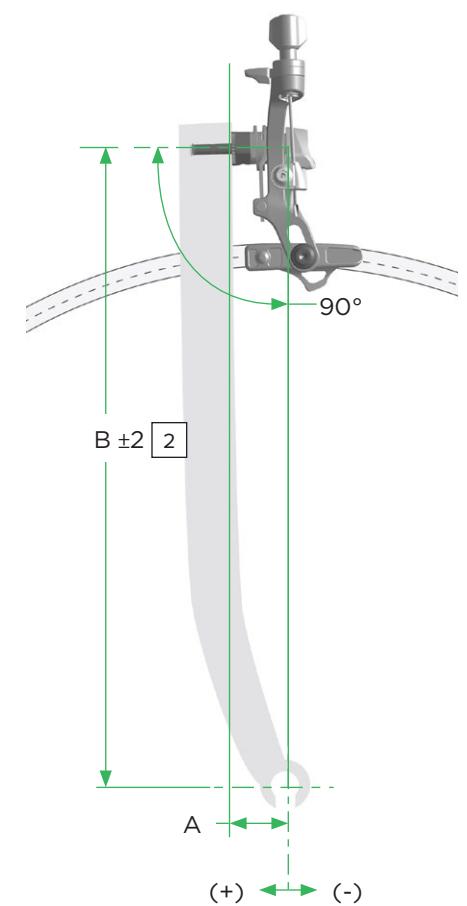
3 Mount only to the front side of the fork.



Direct Mount Front Rim Brake Caliper



Single Pivot Front Rim Brake Caliper



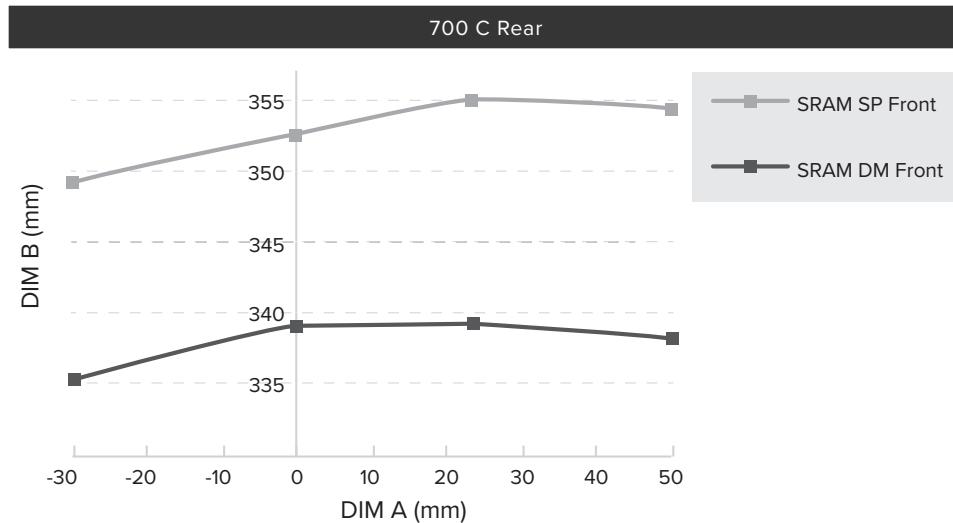
Rear Rim Brake Caliper

Direct Mount and Single Pivot Design Dimensions

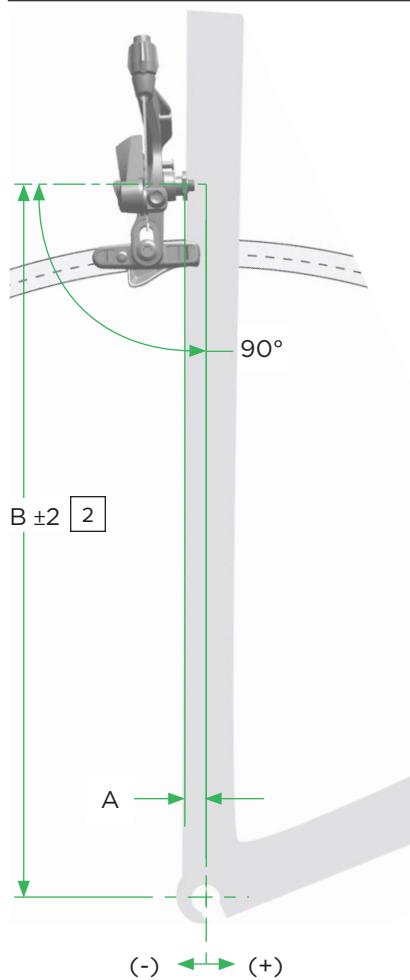
Brake Caliper Pivot Location

700 C	A		-30	0	25	50
	B ±2	SRAM DM Front	335.9	339	339.5	338
		SRAM SP Front	349	353.5	355	354.5

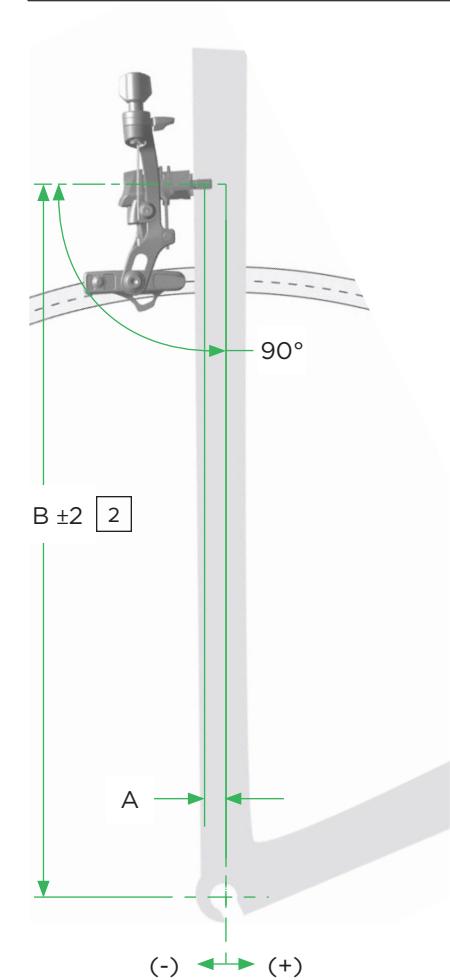
- For increased tire clearance, make mounting features to the + side of the "B" dimension tolerance limit.
- For 650c wheels, subtract 26 mm from the 700c "B" dimensions.
- Mount only to the back side of the seatstay. Do not mount under bottom bracket or on the front side of the seatstay.



Direct Mount Rear Rim Brake Caliper

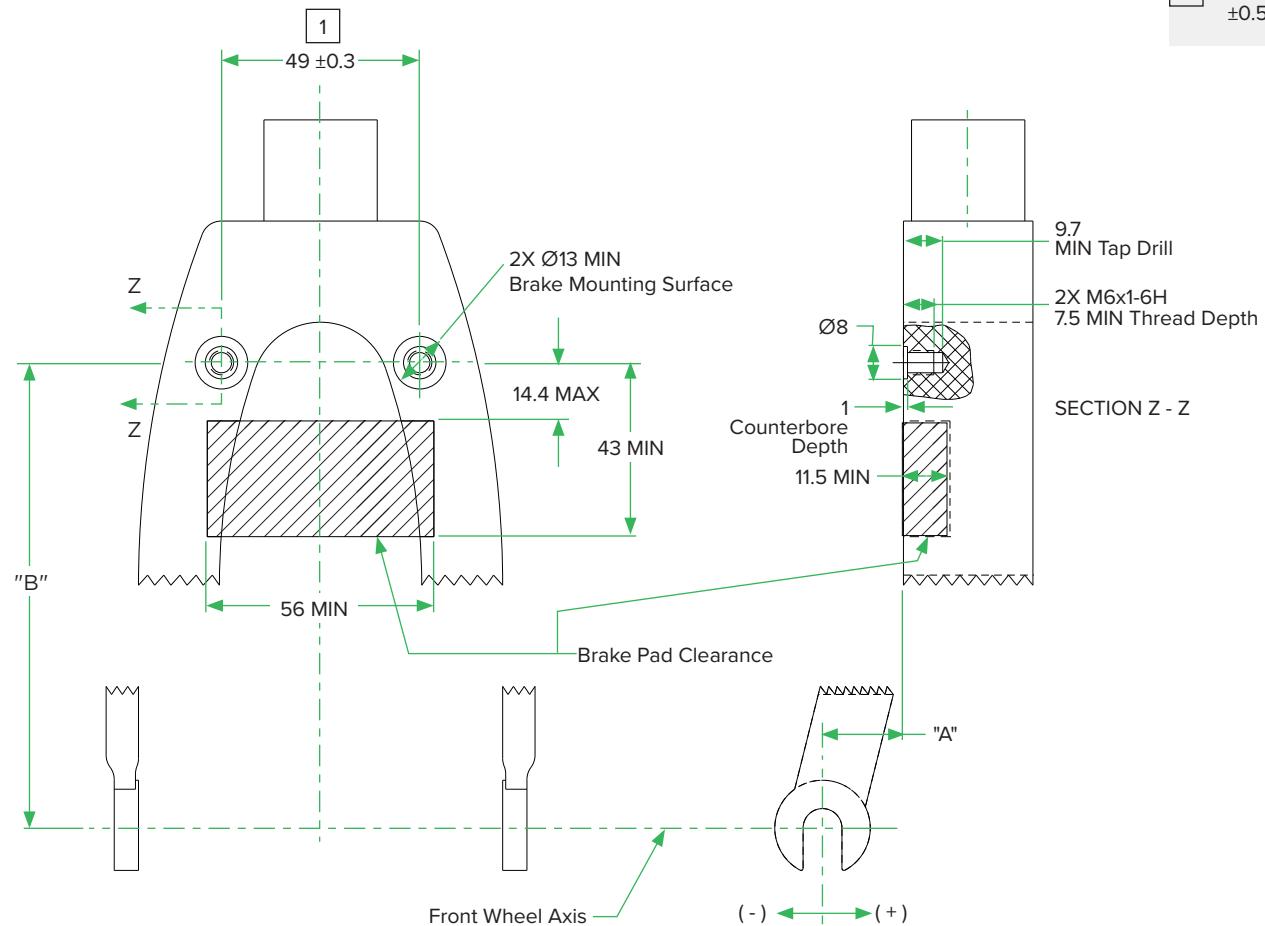


Single Pivot Rear Rim Brake Caliper



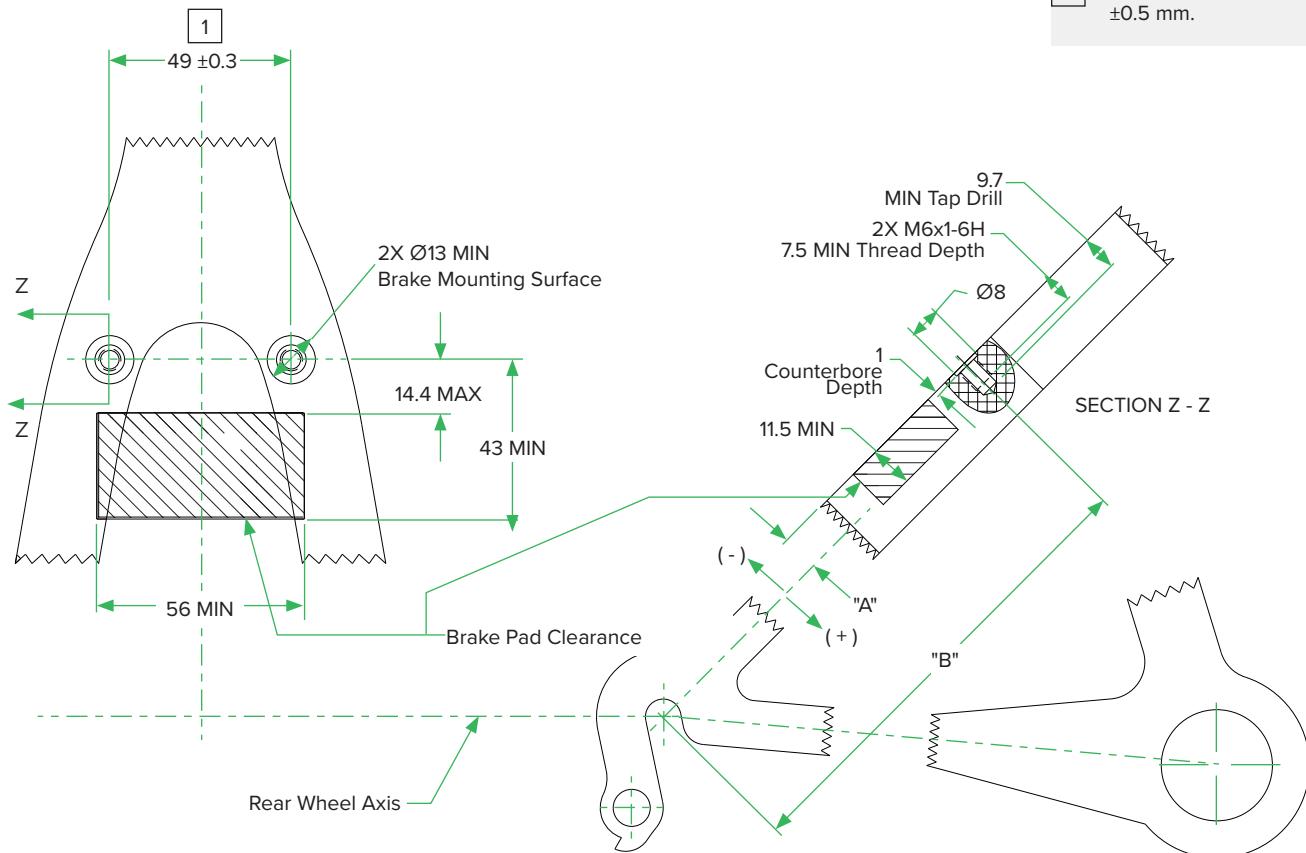
Front Direct Mount

Mounting Dimensions



Rear Direct Mount

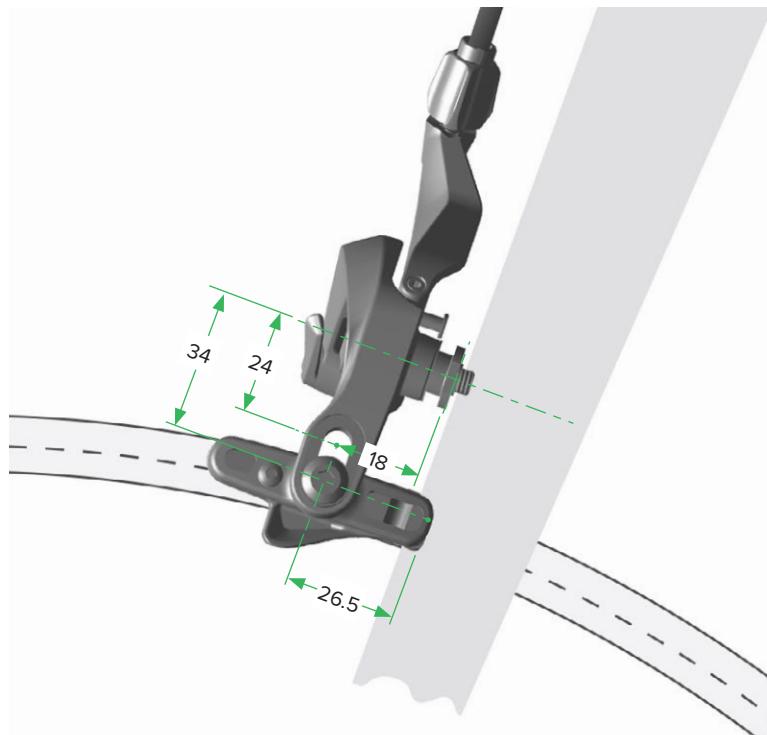
Mounting Dimensions



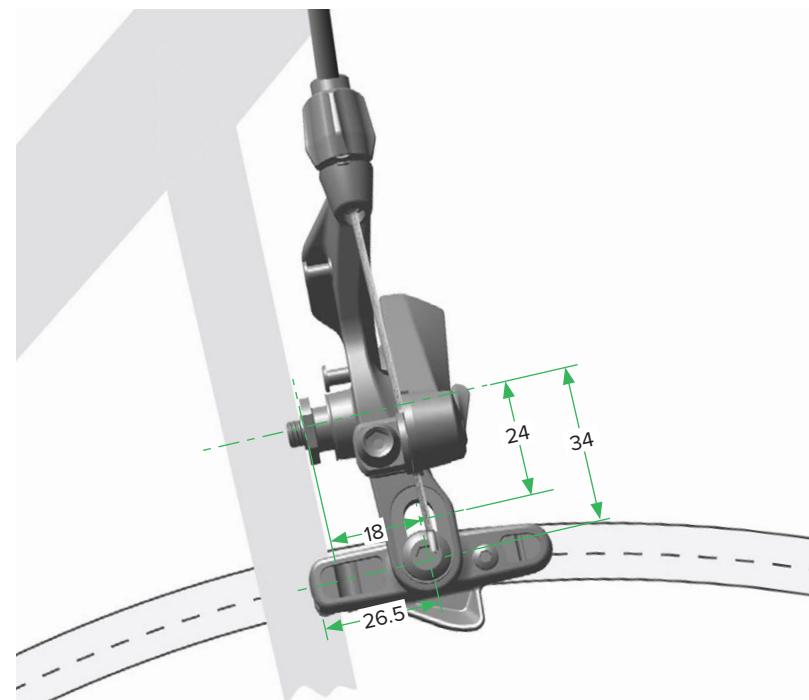
Direct Mount

Rim Brake Caliper Design Dimensions

Front Rim Brake Caliper



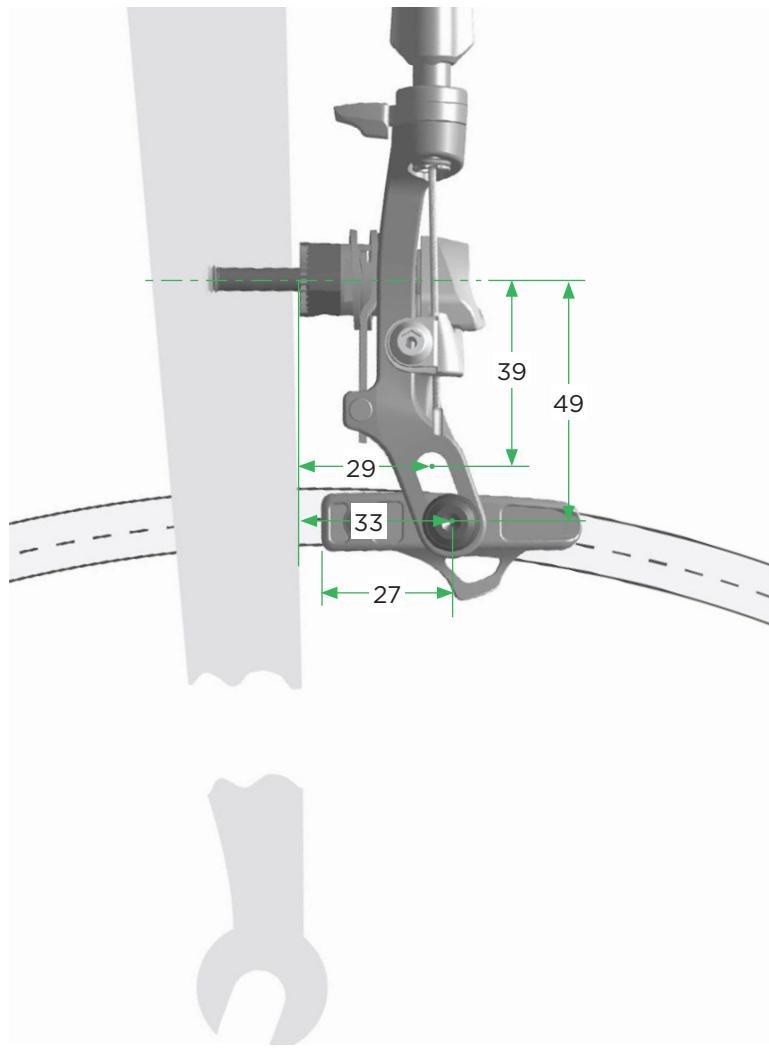
Rear Rim Brake Caliper



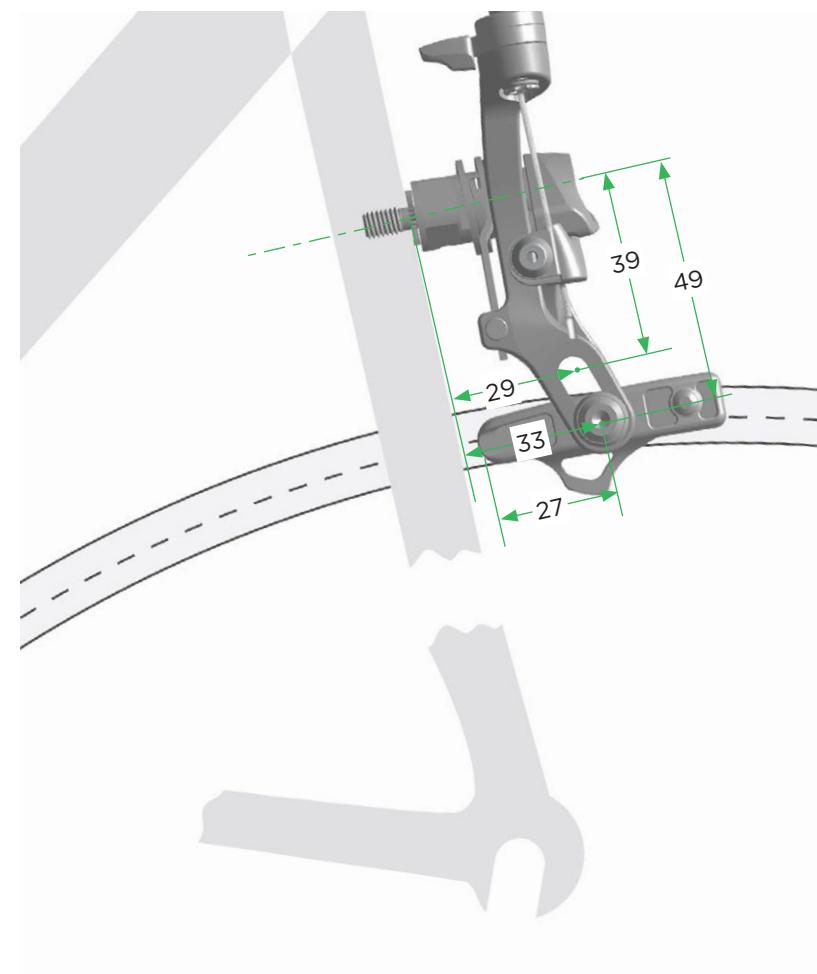
Single-Post Mount

Rim Brake Caliper Design Dimensions

Front Rim Brake Caliper

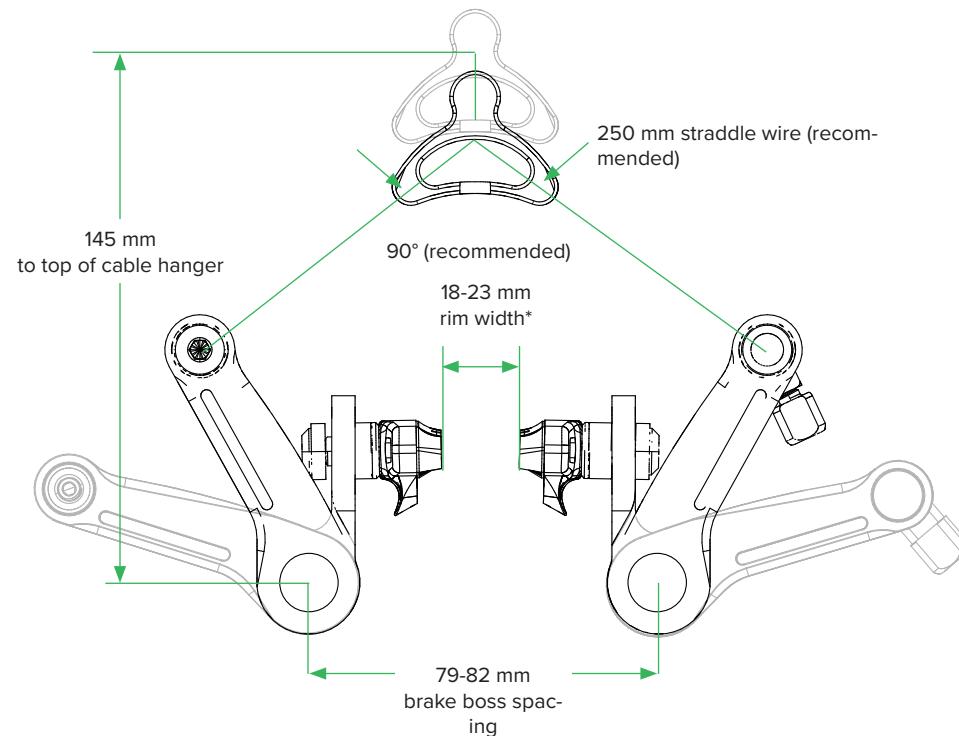


Rear Rim Brake Caliper



Shorty Ultimate

Dual Mounted Brake Caliper

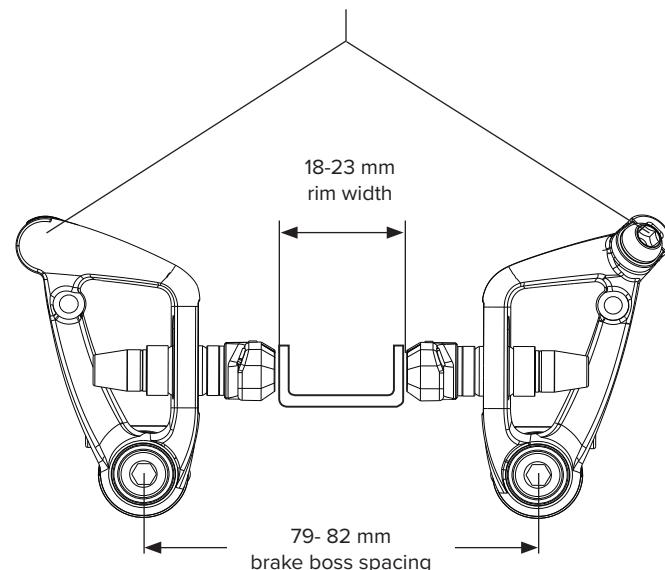


1 For wheel rims wider than 23 mm, consult the spare parts catalog on www.sram.com/service for part numbers.

Shorty 6/ Shorty 4

Cable Carrier and Straddle Cable Length

	Length of straddle cable	Opening angle of straddle cable	Designed width of Shorty	Total height	Designed height	Total width	Pivot width	Opening
	A (mm)	C	D (mm)	H (mm)	h (mm)	W (mm)		
CCC Type S	63	100°	31.78	92.94	56.80	51.61	63.21	39.65
CCC Type A	73	95°		106.12		53.82	67.64	44.08
CCC Type B	82	87°		116.28		56.45	72.89	49.33
CCC Type C	106	80°		138.00		68.14	96.27	72.71
CCC Type D	93	90		122.56		65.76	91.52	67.96

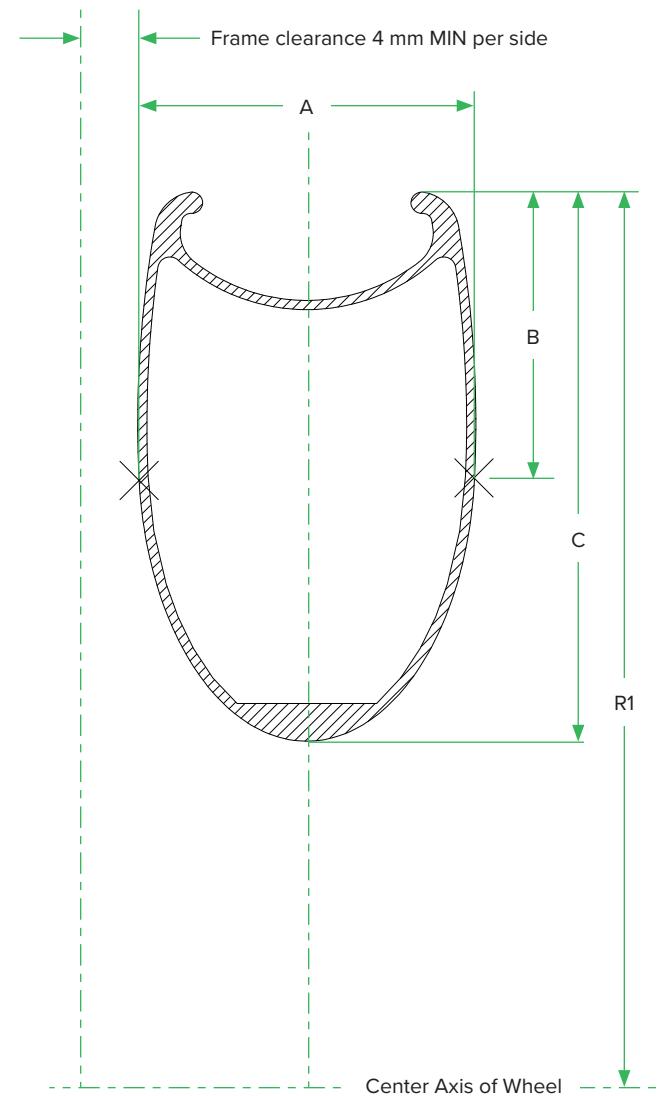


Wheels and Hubs

Zipp Wheels

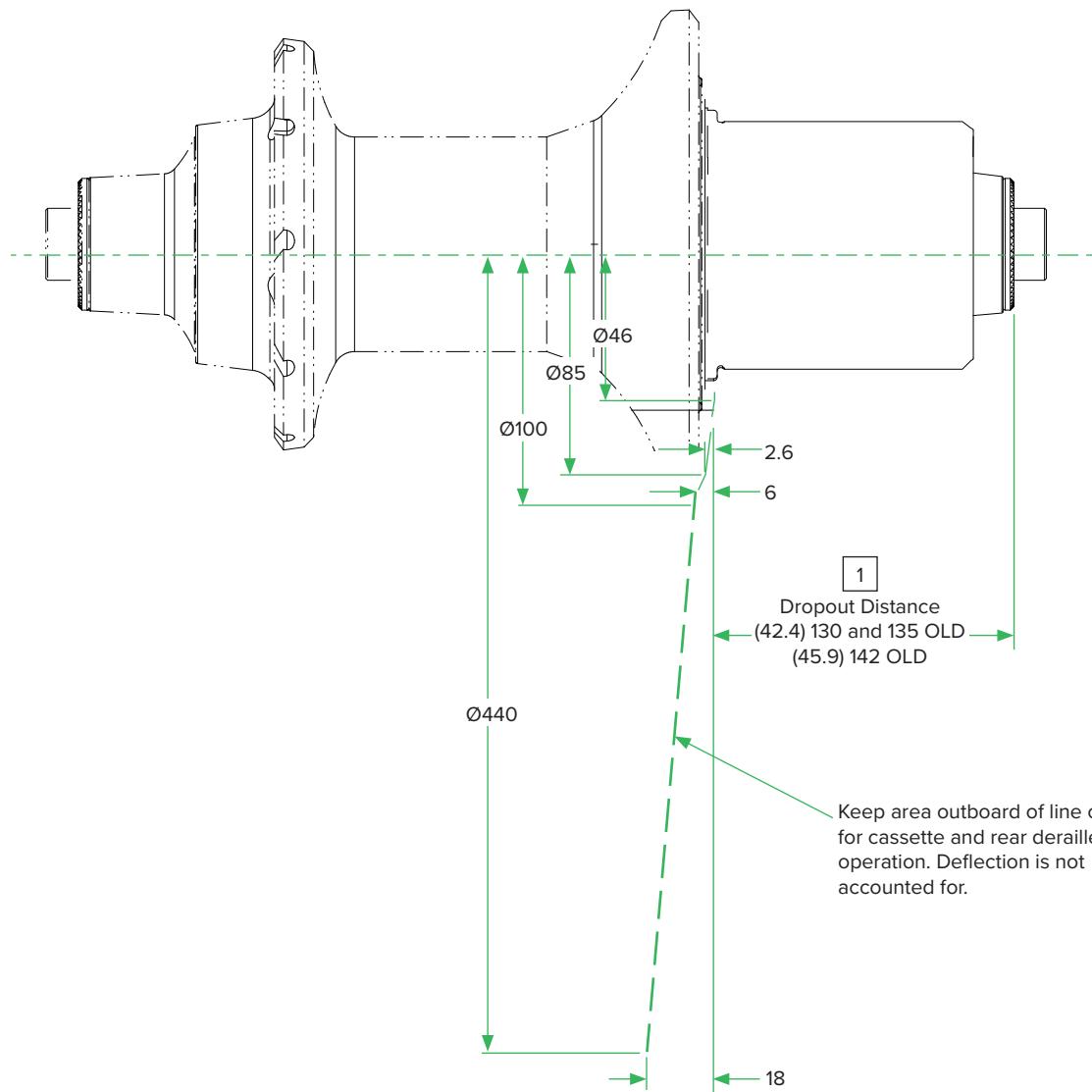
Rim/Disc Design Parameters

	MAX Width	Depth at MAX Width	MAX Depth	Radius to Center Axis	
	A (mm)	B (mm)	C (mm)	R1 (mm)	
30 Course CC	25	10.00	26.00	316.60	
30 Course TU				316.25	
30 Course CC DB		5.45		316.60	
30 Course TU DB				316.25	
202 Firecrest & NSW CC	25.65	13.01	32.54	316.62	
202 TU	22.86	8.23			
202 Firecrest & NSW Tubeless DB	28.65	8.42	32.00	316.67	
302 CC RB & DB	26.50	14.89	26.50	326.45	
303 Firecrest & 303 NSW CC	28.25	19.45	46.60	316.62	
303 NSW Tubeless DB	29.88	21.90	45.50	316.67	
303 Firecrest 650b Tubeless DB				297.95	
303 Firecrest Tubeless DB				316.67	
303 Firecrest TU	28.25	19.08	46.60	316.62	
404 Firecrest & NSW CC	27.8	26.06	58.75		
404 Firecrest TU	27.32	25.13			
404 Firecrest & NSW Tubeless DB	26.99	19.84	58.75	316.73	
808 Firecrest & 808 NSW CC	27.8	50.05	81.82	316.62	
808 Firecrest & NSW Tubeless DB	28.02	35.10	82.50	316.66	
808 Firecrest TU	27.17	49.77	81.82	316.62	
900 TU DB	21.28	NA	NA		
Super-9 CC DB	28.25				
Super-9 TU DB			317.54		



Rear Derailleur Wheel Spoke Clearance

XDR

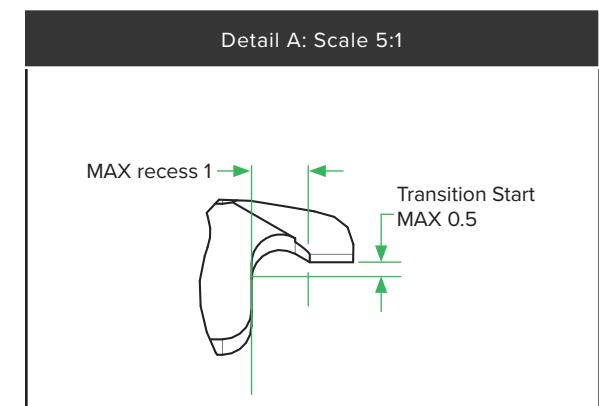
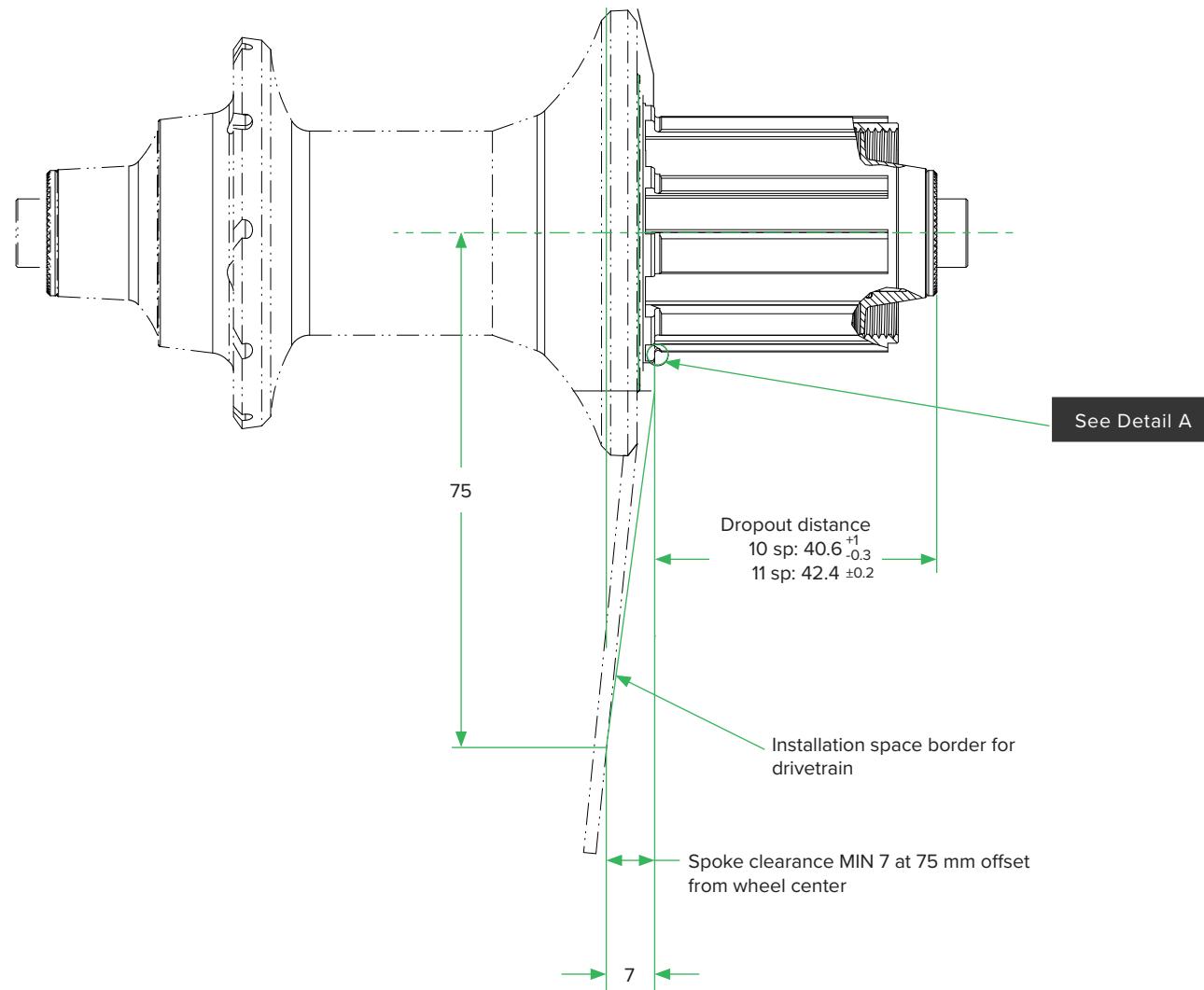


1

Refer to <http://xddriverbody.com/> for freehub driver body specifications.

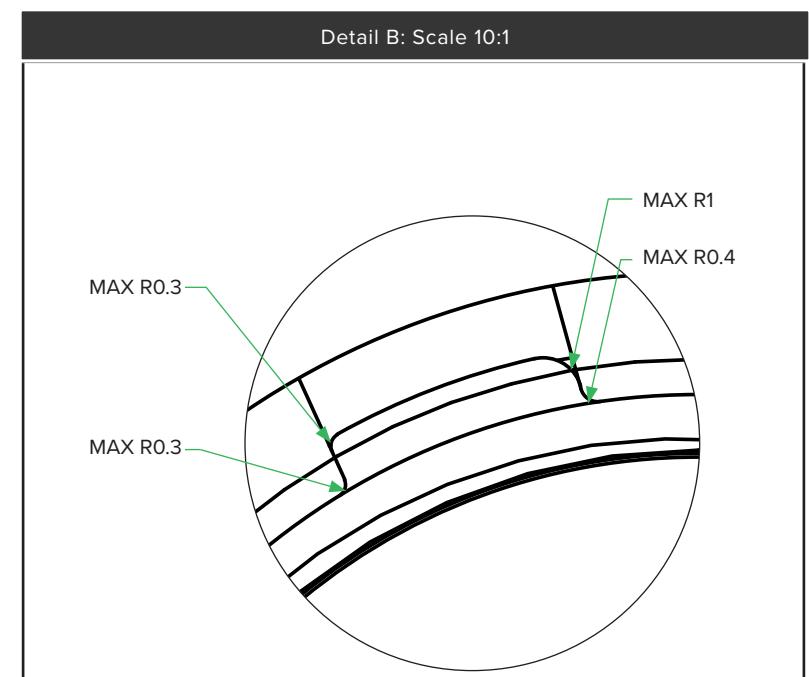
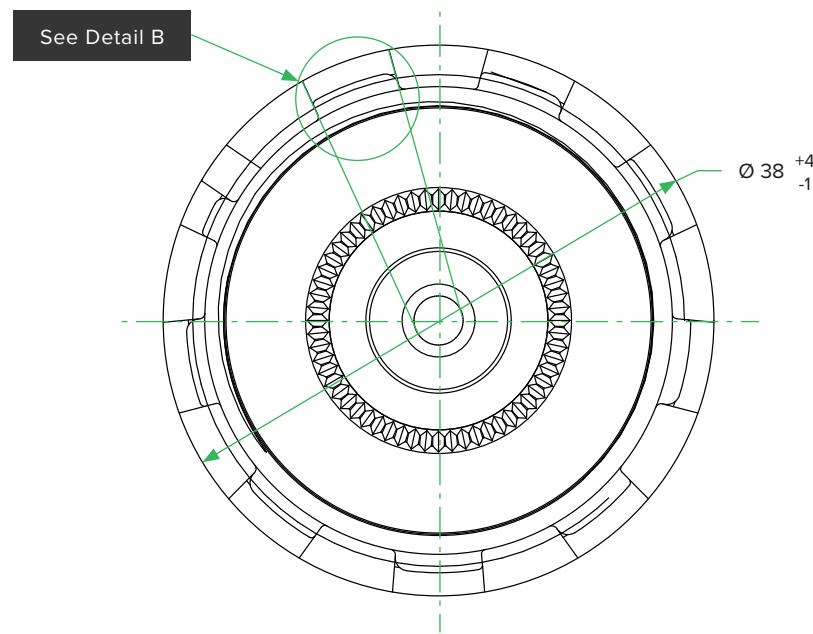
Driver and Wheel Standard

10 and 11 speed



Driver and Wheel Standard

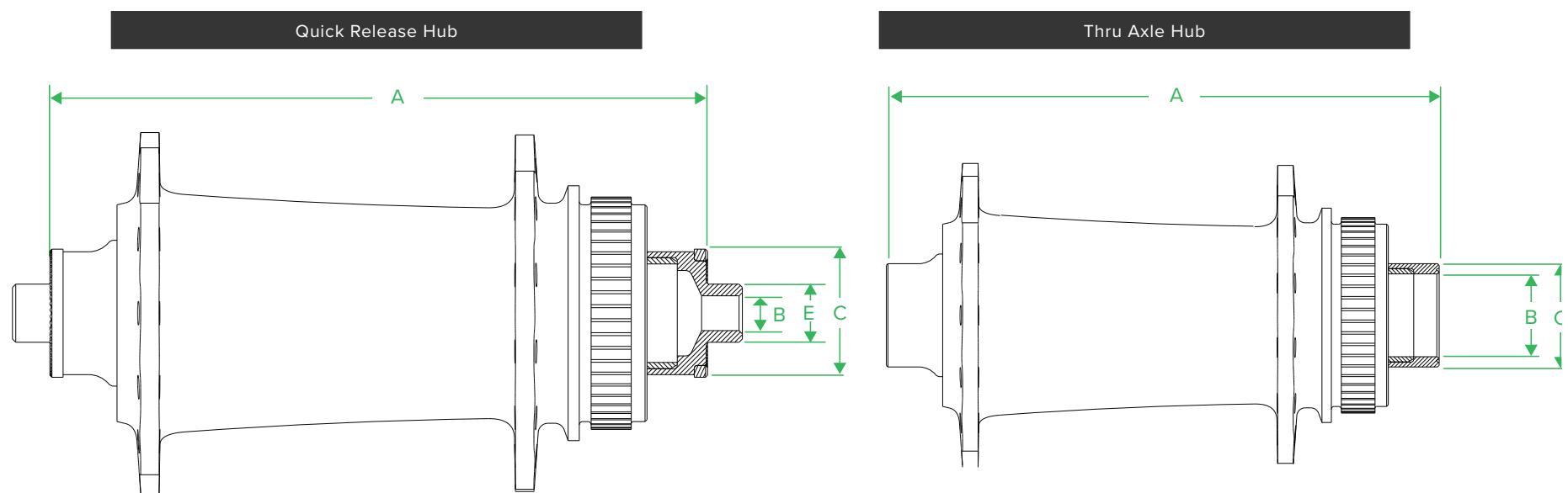
10 and 11 speed



Zipp Hubs with Center Locking Disc Brake Mount

Front Hub Specifications

	A (mm)	B (mm)	C (mm)	E (mm)
9x10 Quick Release Hub		$\emptyset 5.3 \pm 0.1$	$\emptyset 19.5 \pm 0.1$	$\emptyset 8.85 \pm 0.05$
12x100 Thru Axle Hub	100.0 ± 0.75	$\emptyset 12.0 + 0.1$	$\emptyset 18.7 \pm 0.1$	N/A
15x100 Thru Axle Hub		$\emptyset 15.0 + 0.1$		

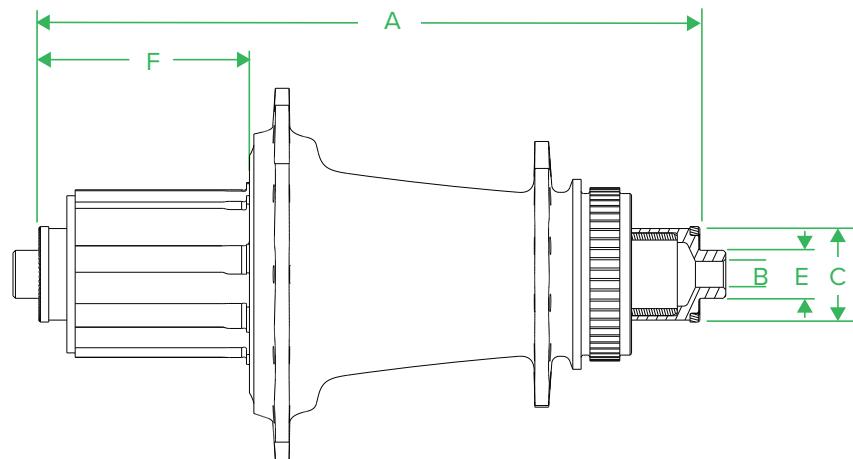


Zipp Hubs with Center Locking Disc Brake Mount

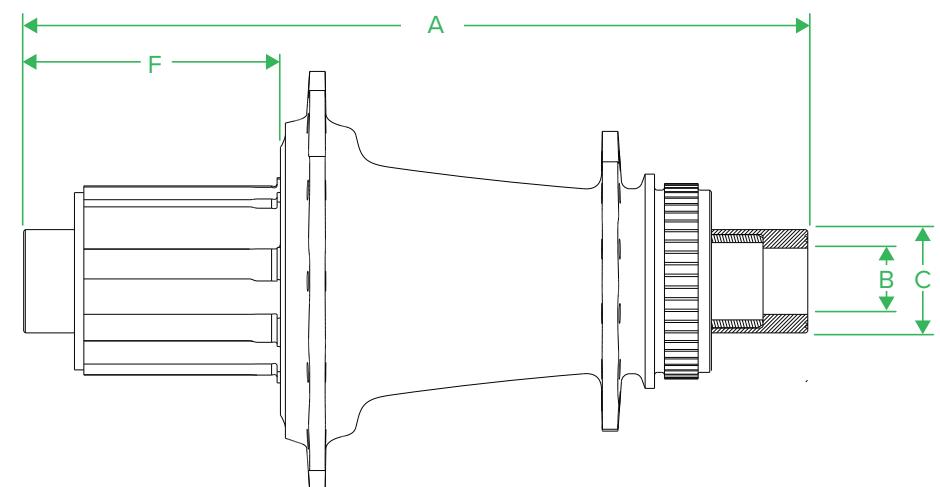
Rear Hub Specifications

	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)
10x135 Quick Release Hub	135.0 ± 0.5	Ø 5.3 ± 0.1	Ø 19.5 ± 0.1	Ø 9.85 ± 0.05	42.4 ± 0.2
12x135 Thru Axle Hub		Ø 12.0 + 0.1	Ø 18.7 ± 0.1	N/A	
12x142 Thru Axle Hub	142.0 ± 0.5				45.9 ± 0.2

Quick Release Hub



Thru Axle Hub

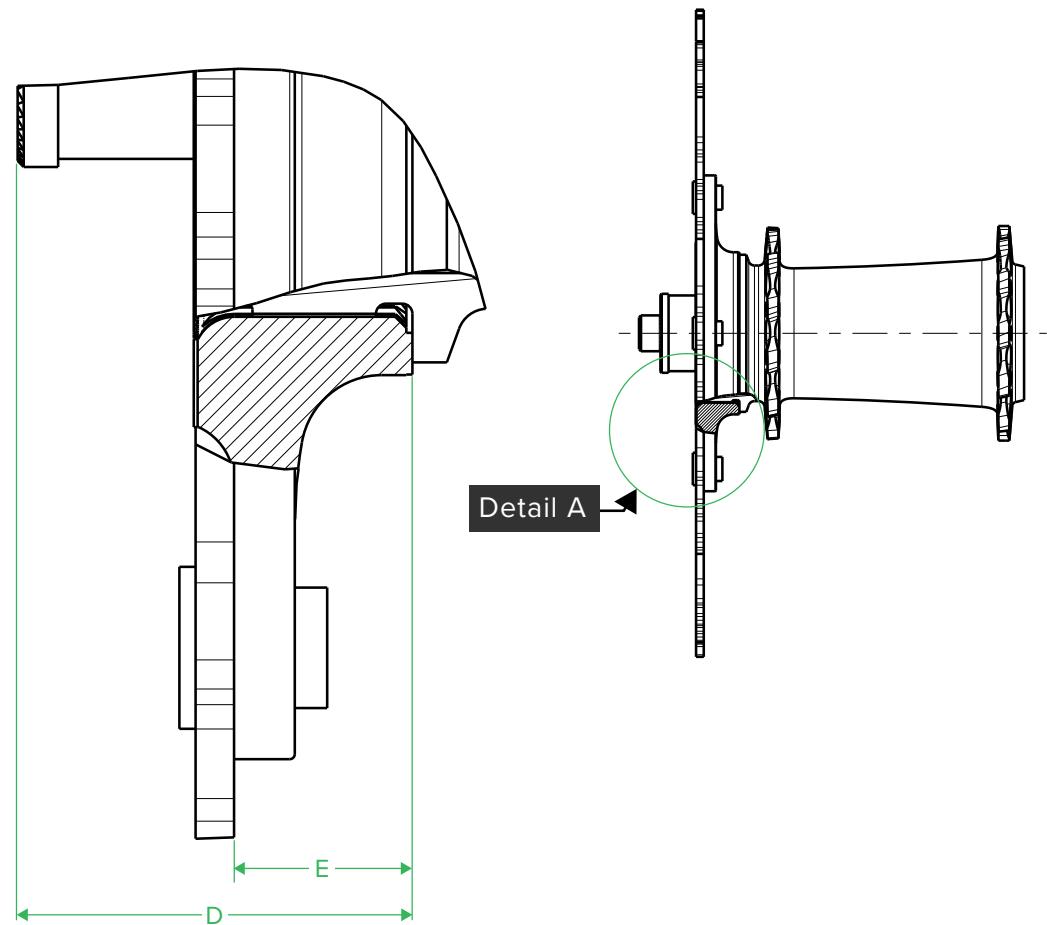


Zipp Hubs with Center Locking Disc Brake Mount

Front and Rear Hub Distance to Rotor

	D (mm)		E (mm)	
	CLX	CLX-R	CLX	CLX-R
9x10 Quick Release Hub				
12x100 Thru Axle Hub		19.5		
15x100 Thru Axle Hub				
10x135 Quick Release Hub			8.5	
12x135 Thru Axle Hub				9.0
12x142 Thru Axle Hub		24.25		
	27.25			

Detail A: Scale 5:1

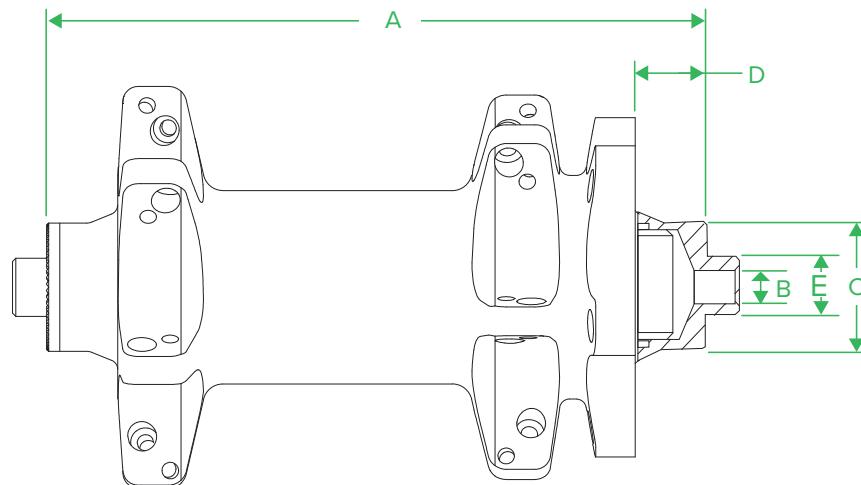


Zipp Hubs with ISO 6 Bolt Disc Brake Mount

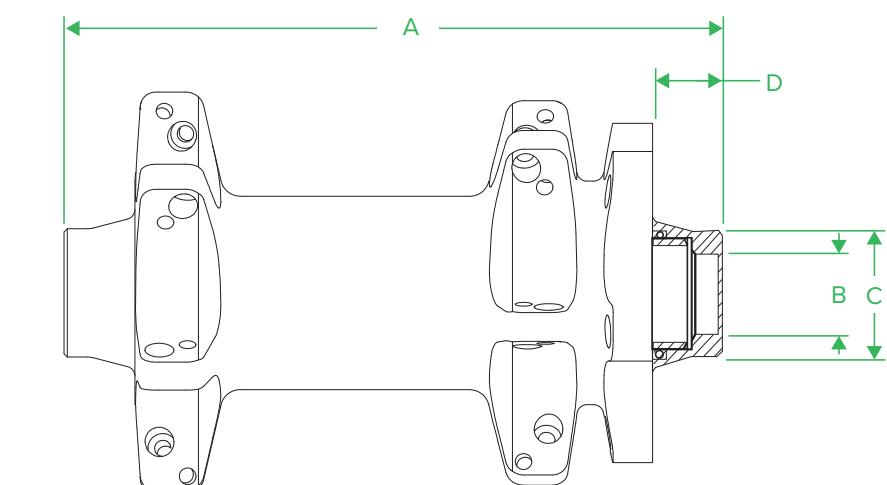
Front Hub Specifications

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
9x100 Quick Release Hub	100.0 ± 0.75	Ø 5.3 ± 0.1	Ø 19.5 ± 0.1	10.5 ± 0.3	Ø 8.85 ± 0.05
12x100 Thru Axle Hub		Ø 12.0 + 0.1	Ø 19.0 ± 0.1		N/A
15x100 Thru Axle Hub		Ø 15.0 + 0.1	Ø 19.5 ± 0.1		N/A
9x100 Thru-bolt Hub		Ø 9.0 + 0.1			

Quick Release Hub



Thru Axle and Thru-bolt Hub

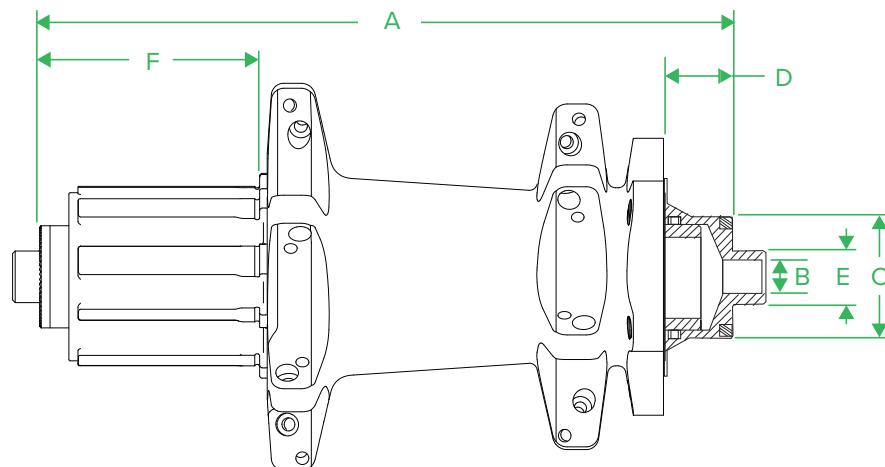


Zipp Hubs with ISO 6 Bolt Disc Brake Mount

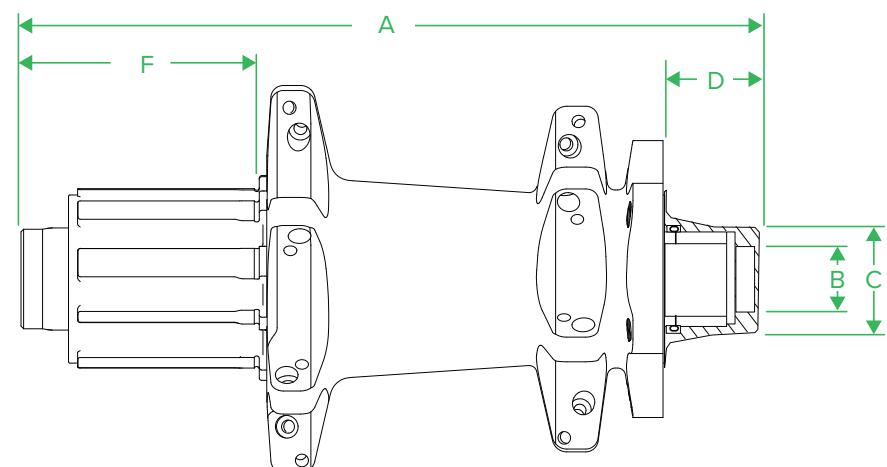
Rear Hub Specifications

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
10x135 Quick Release Hub	$135.7 \pm 0.3/-1.0$	$\emptyset 5.3 \pm 0.1$	$\emptyset 19.5 \pm 0.1$	15.5 ± 0.2	$\emptyset 9.85 \pm 0.05$	42.4 ± 0.2
12x135 Thru Axle Hub						
12x142 Thru Axle Hub	$142.7 \pm 0.3/-1.0$	$\emptyset 12.0 + 0.1$	$\emptyset 19.0 \pm 0.1$	19.0 ± 0.2	N/A	45.9 ± 0.2
10x135 Thru-bolt Hub	$135.7 \pm 0.3/-1.0$	$\emptyset 10.0 + 0.1$	$\emptyset 19.5 \pm 0.1$	15.5 ± 0.2		42.4 ± 0.2

Quick Release Hub



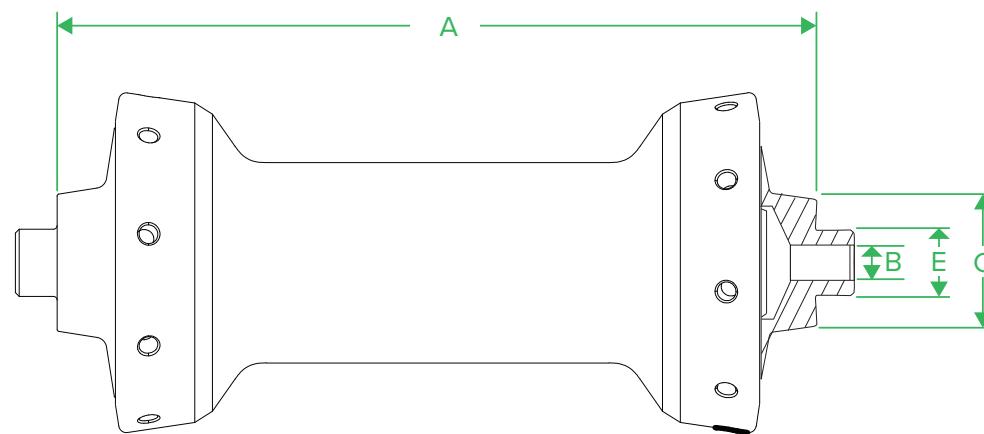
Thru Axle and Thru-bolt Hub



Zipp Rim Brake Hubs

Front Hub Specifications

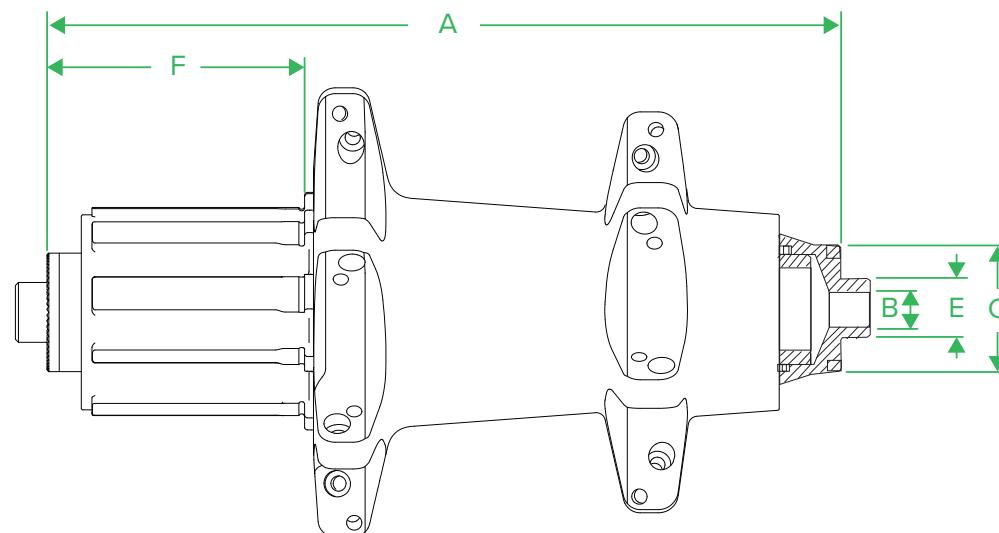
9x100 Quick Release Hub	A (mm)	B (mm)	C (mm)	E (mm)
	100 ± 0.75	Ø 5.3 ± 0.1	Ø 18.3 MAX	Ø 8.85 ± 0.05



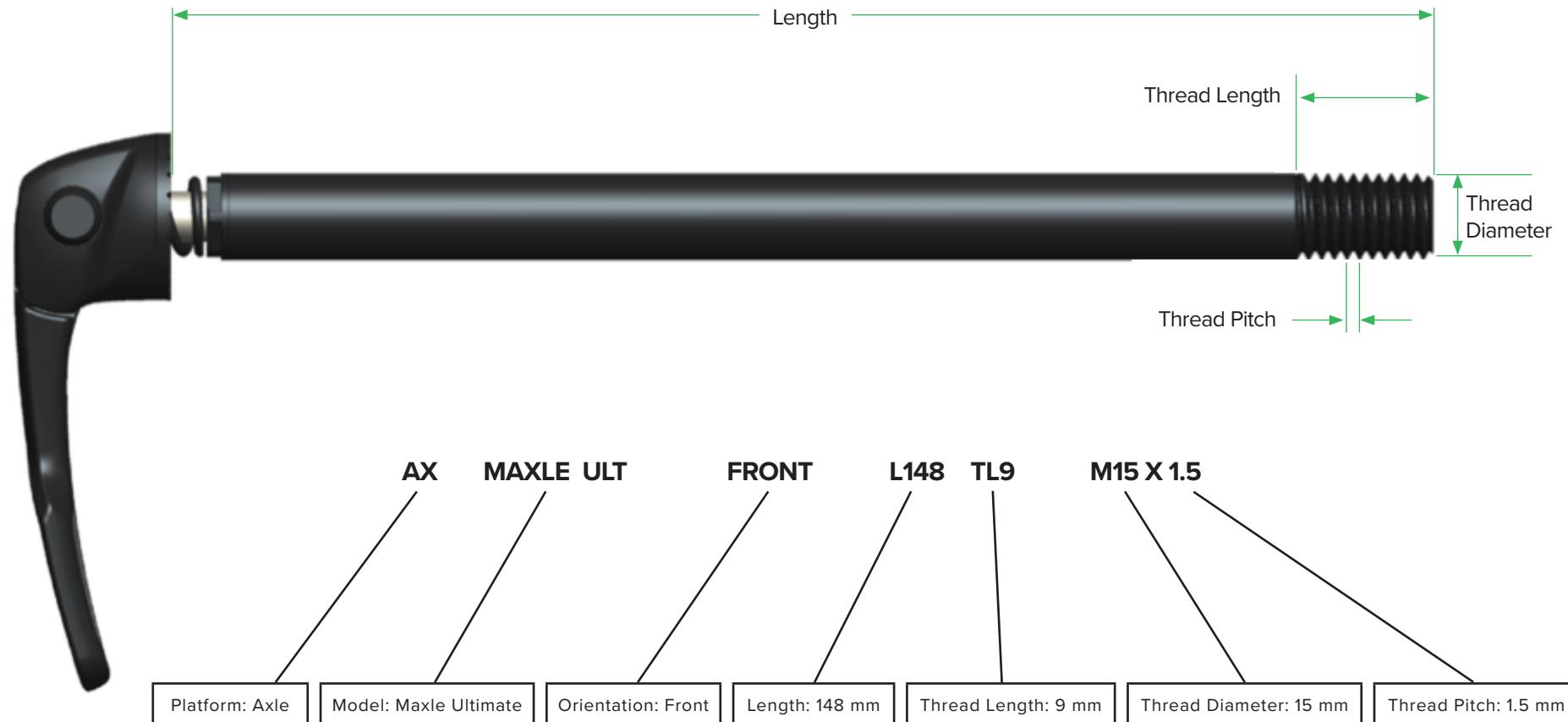
Zipp Rim Brake Hubs

Rear Hub Specifications

10x130 Quick Release Hub	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)
	$130.7 \pm 0.3/-1.0$	$\varnothing 5.3 \pm 0.1$	$\varnothing 19.5 \pm 0.1$	$\varnothing 9.85 \pm 0.05$	42.4 ± 0.2



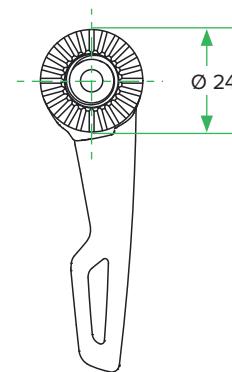
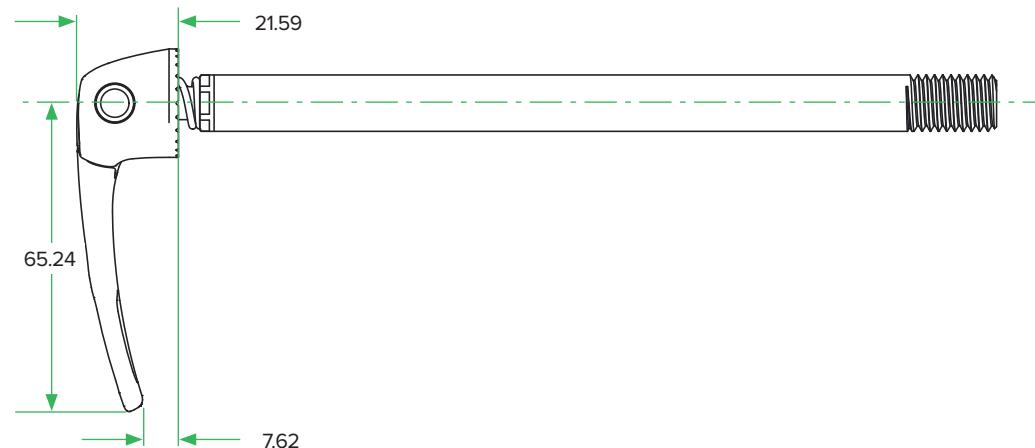
Maxle Description Decoder



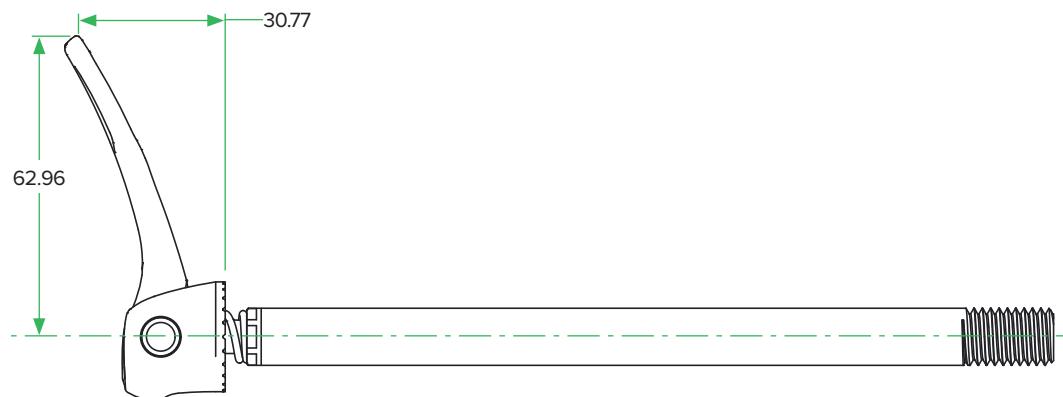
Maxle Ultimate

Frame / Fork Clearance

Lever in Closed Position

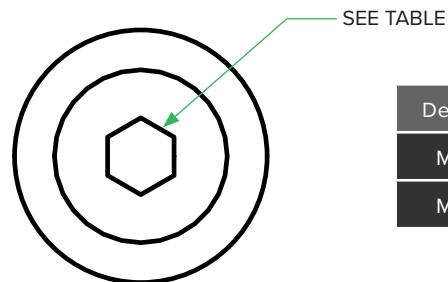


Lever in Open Position



- 1 Drawing is not to scale.
- 2 Customer is responsible for ensuring hub, frame, and axle compatibility.
- 3 The frame manufacturer is responsible for ensuring the frame and/or fork assemblies using Maxles are compliant with existing safety standards.
- 4 Head translates along the Maxle axis approximately 1.46 mm when lever is moved from open to closed.

Maxle Stealth



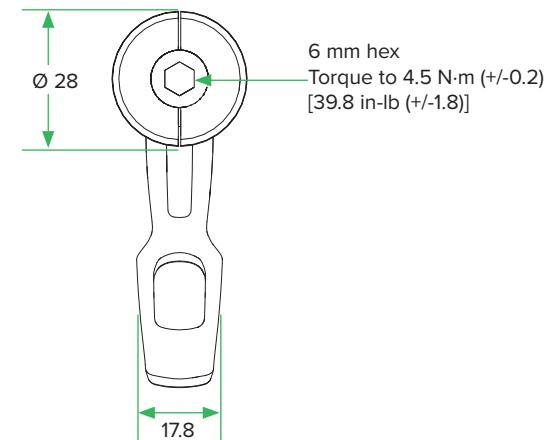
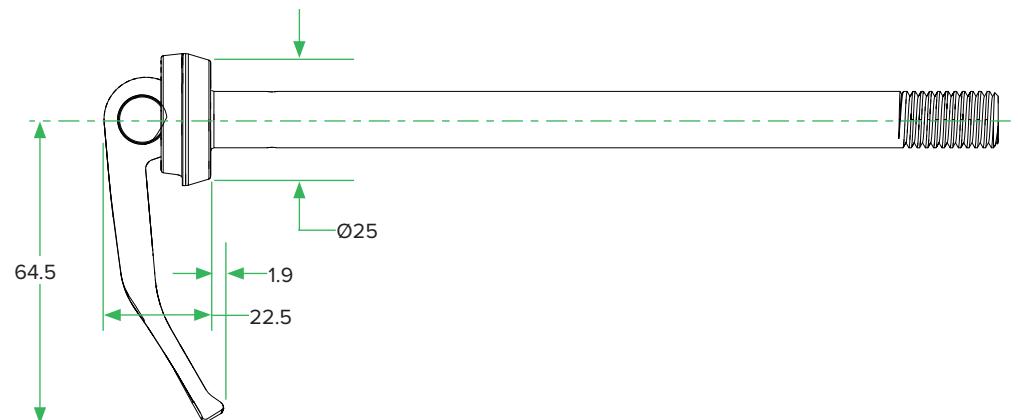
Description	Hex Size	Torque Value
Maxle 12	5	9-13.5 N•m
Maxle 15	6	9-13.5 N•m

- 1 Drawing is not to scale.
- 2 Customer is responsible for ensuring hub, frame, and axle compatibility.
- 3 The frame manufacturer is responsible for ensuring the frame and/or fork assemblies using Maxles are compliant with existing safety standards.

Maxle Lite & Maxle

Frame / Fork Clearance

Lever in Closed Position



Lever in Open Position

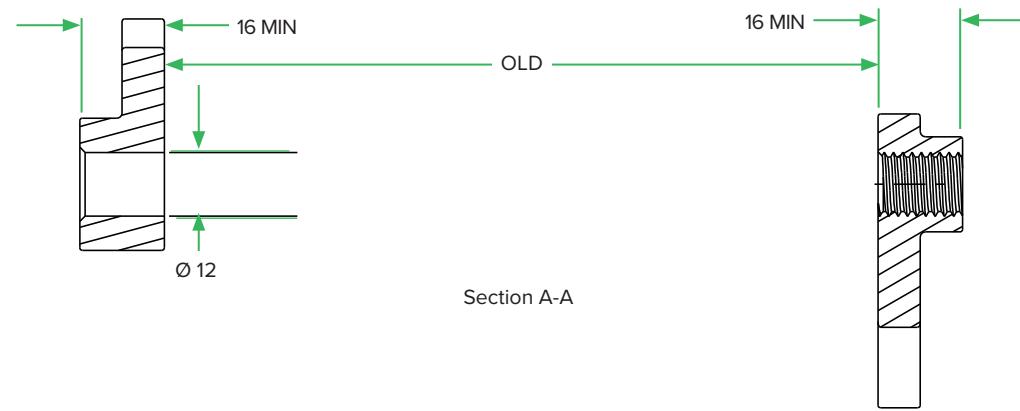
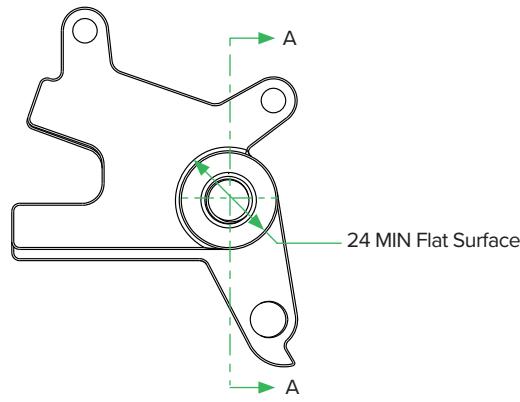
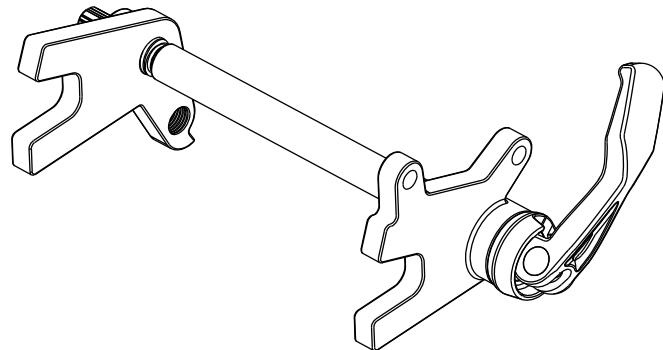


- 1 Drawing is not to scale.
- 2 Customer is responsible for ensuring hub, frame, and axle compatibility.
- 3 The frame manufacturer is responsible for ensuring the frame and/or fork assemblies using Maxles are compliant with existing safety standards.

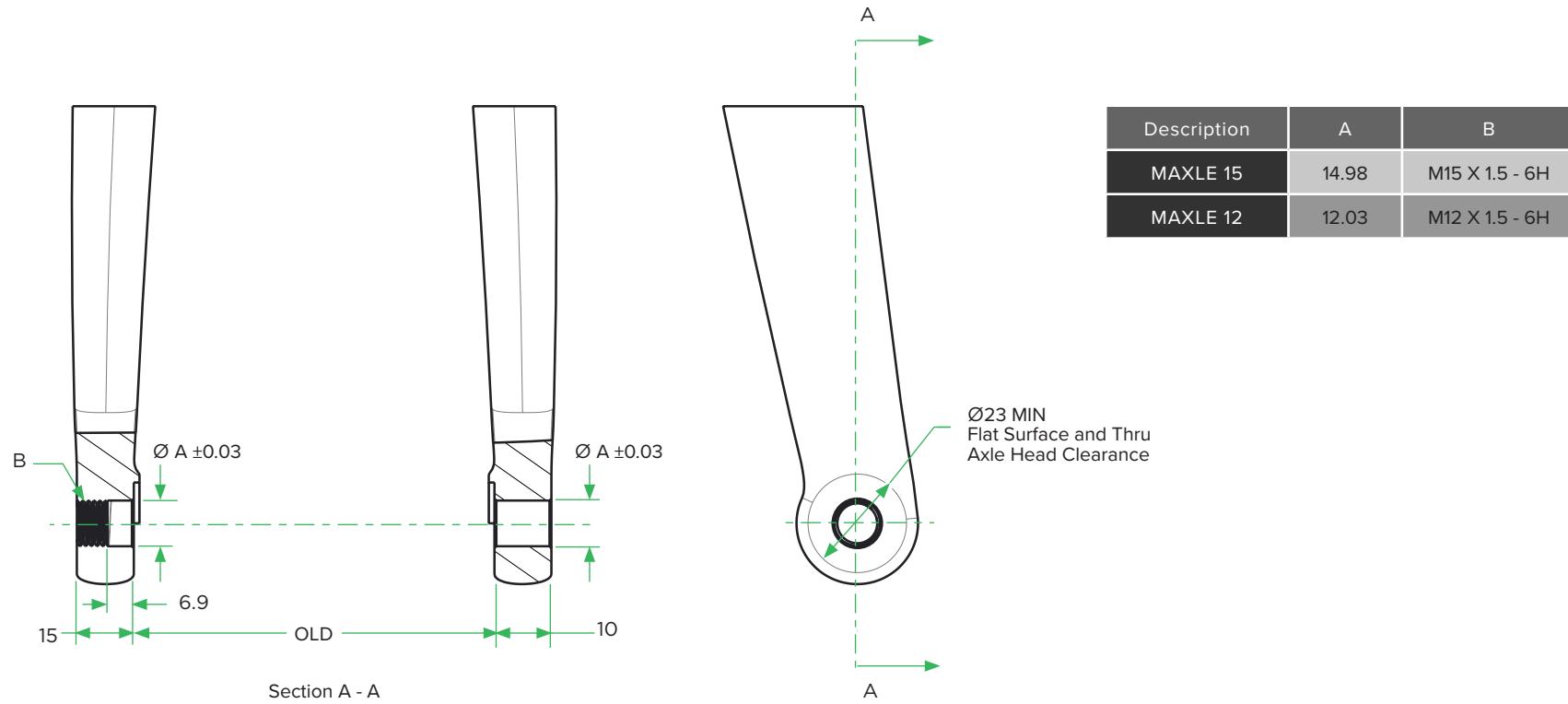
Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth

Rear Frame Specification

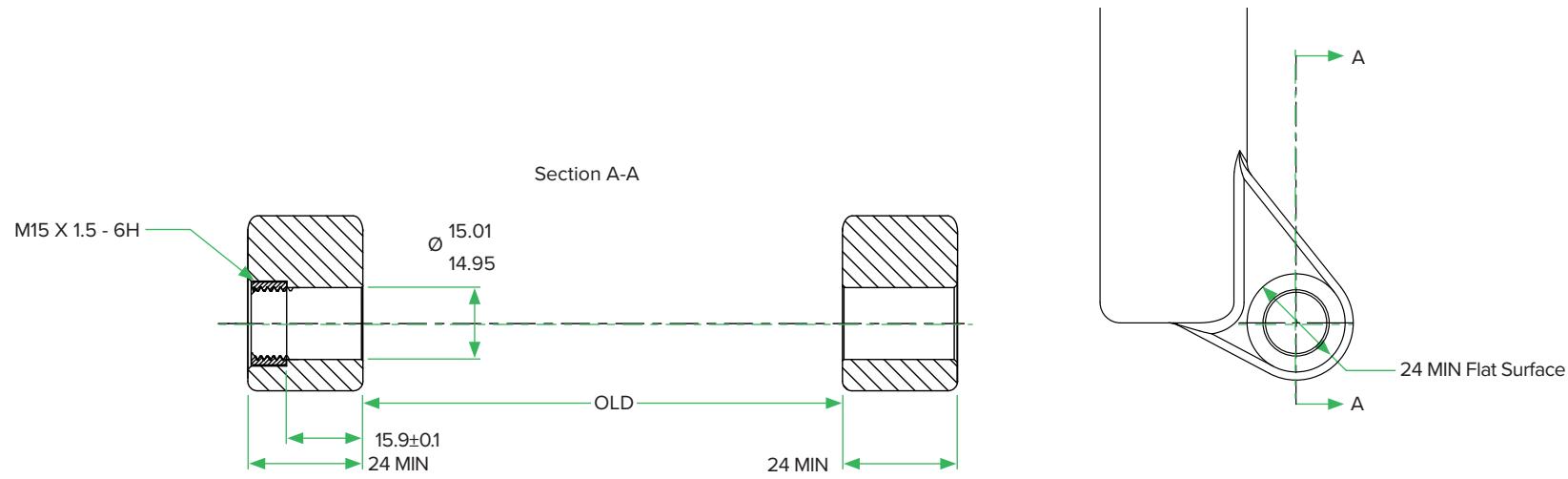
Frame Dropouts with Axle Installed



Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth Fork Specification



Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth Fork Specification



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