

2024 Road Components























S-Series

XPLR



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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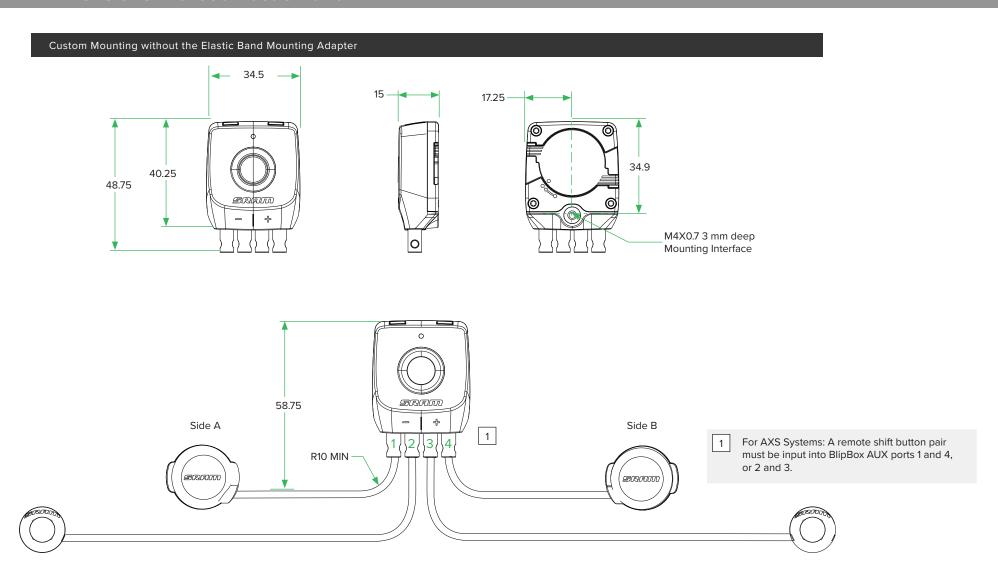
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Electronic Shifters

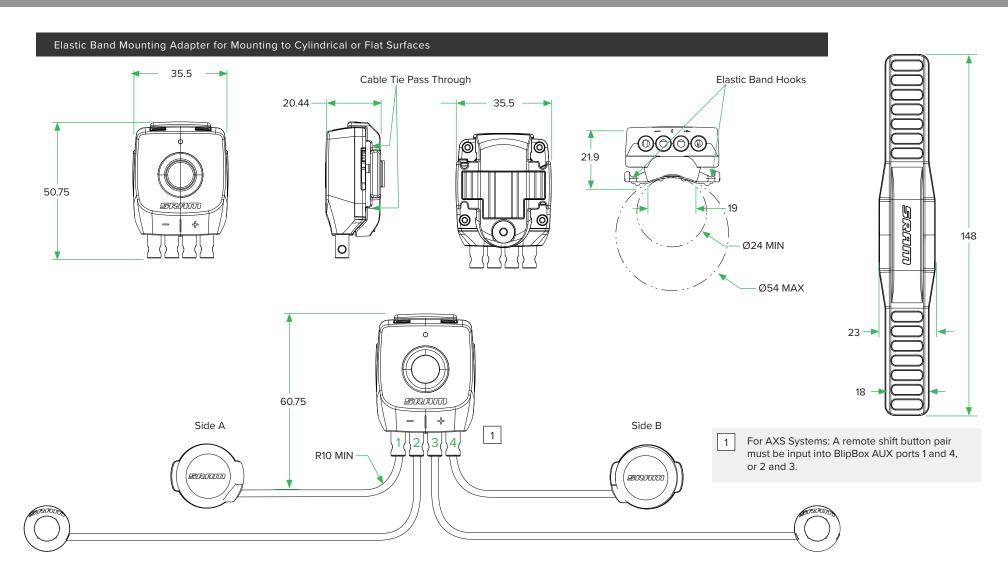
BlipBox

Dimensions without Elastic Band



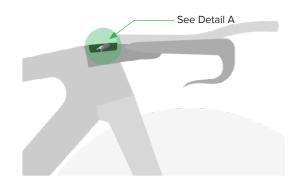
BlipBox

Dimensions with Elastic Band



BlipBox

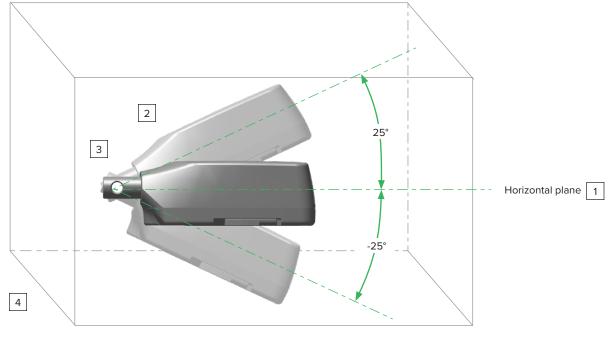
Enclosure Guidelines



BlipBox orientation for optimal performance in internal enclosure space:

- Must be mounted within ± 25 ° from the horizontal plane.
- 2 The button can face upward or downward.
- The wire input ports can face forward or backward.
- The enclosure should not be 3 or more sides of the following materials: carbon, carbon plastic, metal, or water-filled reservoir.

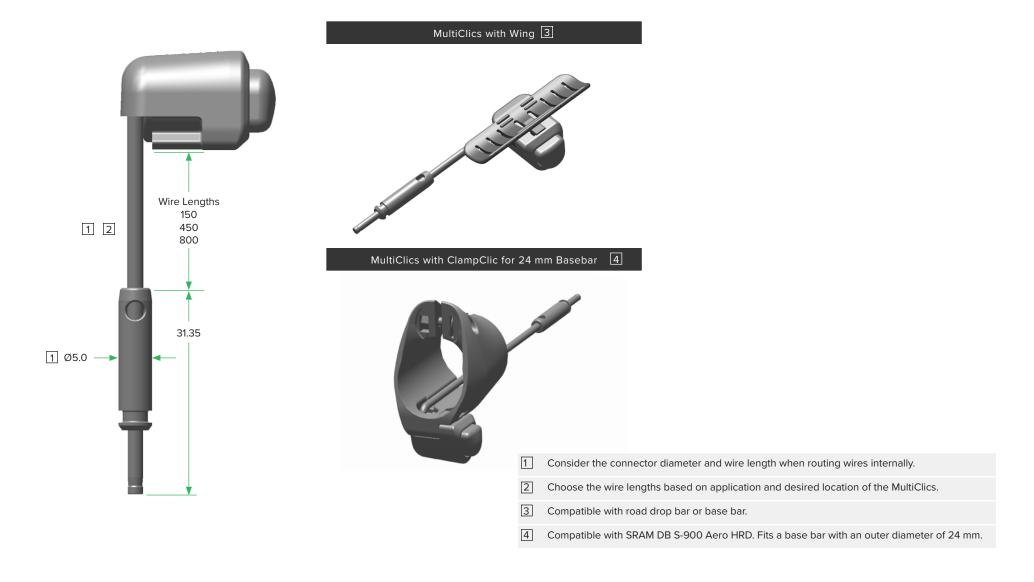
Detail A: Enclosure Guidelines and Mounting Angle



Front of bike -

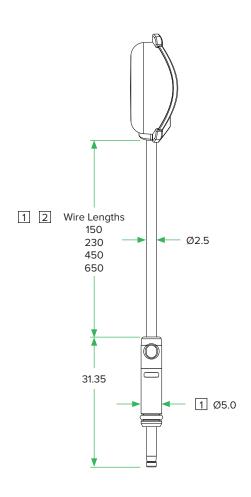
MultiClics

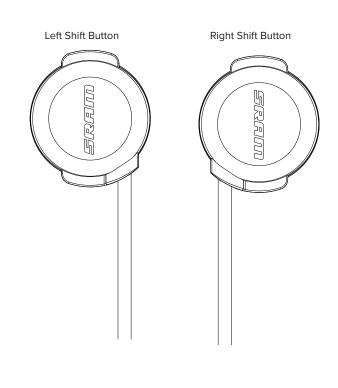
Remote Shift Buttons



Blips

Remote Shift Buttons and Connector Dimensions

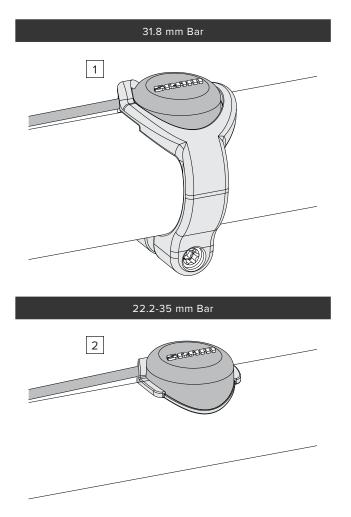


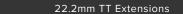


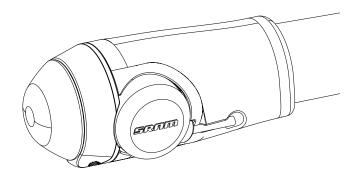
- Consider the connector diameter and wire length when routing wires internally.
- Choose the wire lengths based on application and desired location of the Blips.

BlipClamp and BlipGrip

Remote Shifter Mounting



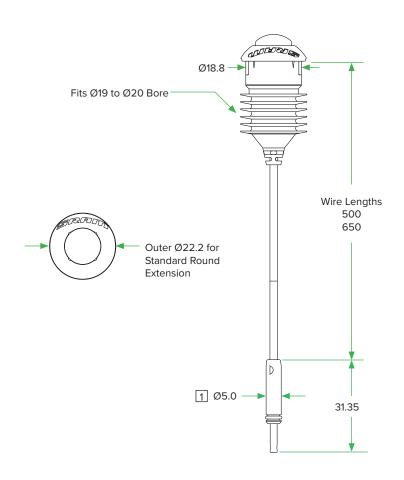




- Button holder designed for 31.8 mm bar mounting.
- 2 Direct mount under the handlebar tape for 22.2 mm through 35 mm diameter bars.

Clics

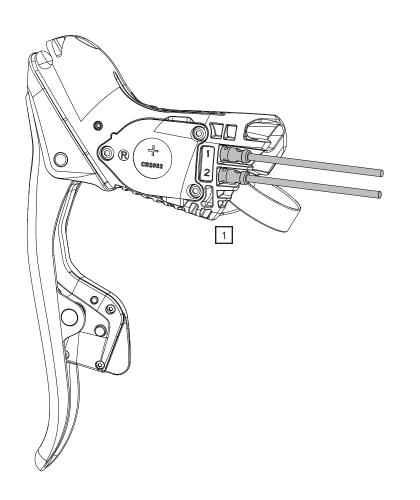
Extension Shift Buttons

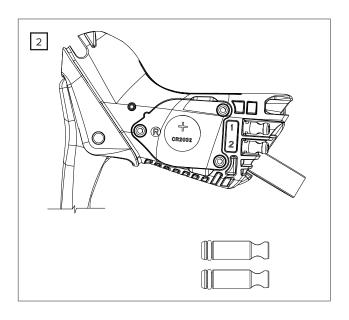


- 1 Consider the connector diameter and wire length when routing wires internally.
- Internally mounted shifter setup requires the MultiClic, Blip, or Clic wires to be routed external of bar, stem, and frame materials a minimum total of 100 mm per side for all the wires. Routing under bar tape is acceptable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

Shift-Brake Levers

Remote Shifter Connections



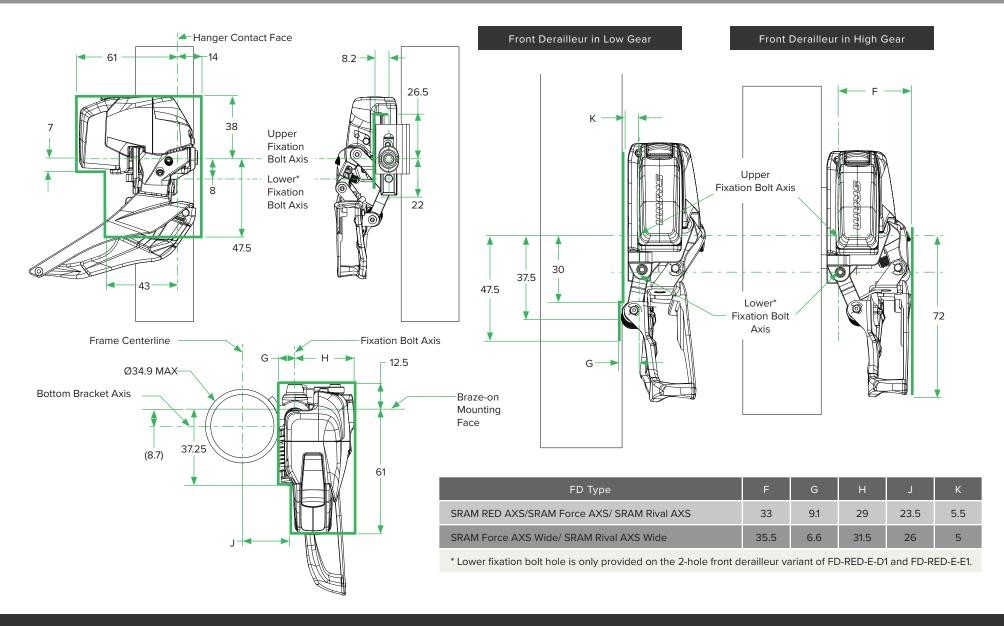


- 1 The left and right shifter brake each provide additional ports for auxiliary remote shifter buttons. SRAM Red eTap AXS has two ports, SRAM Force eTap AXS has one port, and SRAM Rival eTap AXS has no ports.
- 2 Use plugs when remote shifters are not in use.
- Provide a small amount of slack in the wire for shifter brake repositioning.
- Route the wires underneath the bar tape.

Front Derailleurs

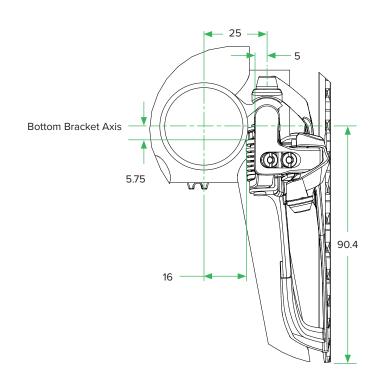
Front Derailleur Clearance

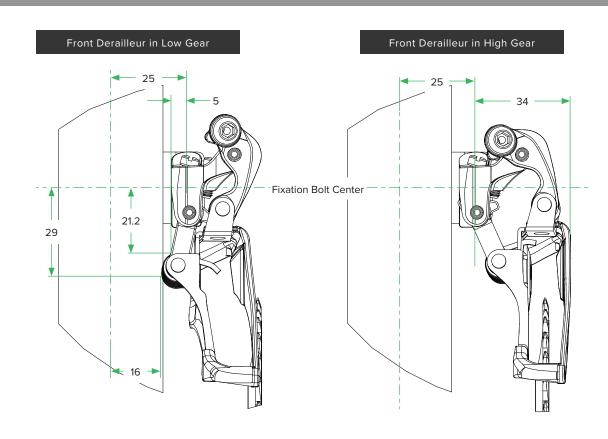
SRAM 12 Speed



Front Derailleur Clearance

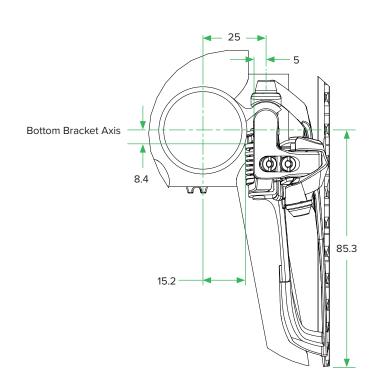
SRAM 11 Speed

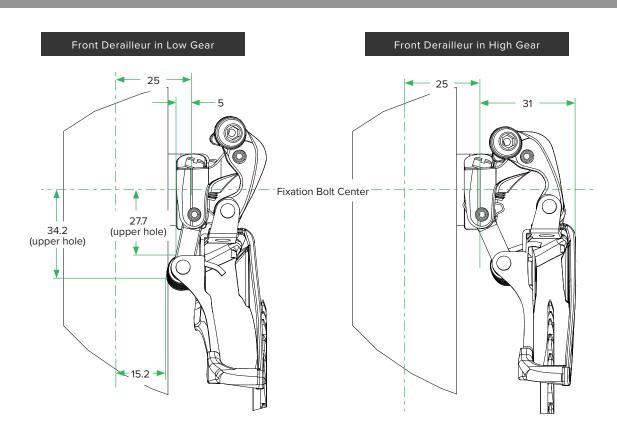




Front Derailleur Clearance

SRAM 10 Speed





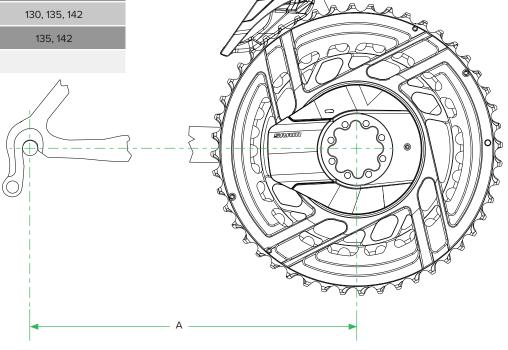
Frame Chainstay Information

SRAM 12 Speed

	Chainlina (Cl.)	Chainninn	Minimum Chainstay Length	Over Locknut Dimension
Chainline (CL)		Chainring	A (mm)	(OLD) [mm]
		56/43	400	130*, 135, and 142
	54/41		135, 142	
		52/39		155, 142
Standard 2x	50/37	405		
		48/35	405	130*, 135, and 142
		46/33		
		43/30		135, 142
	Wide	43/30	415	155, 142
1x	Standard	36-68	395	130, 135, 142
1X	Wide	36-60		135, 142

^{*} Compatible with Red-D1 and Force-D1 Only

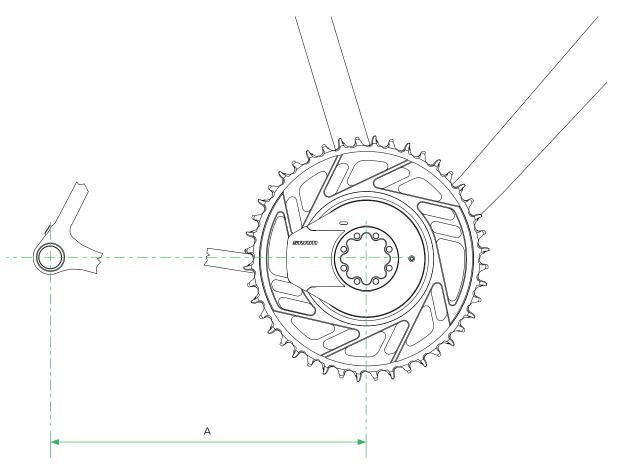
CL Standard	45 mm
CL Wide	47.5 mm



Frame Chainstay Information

SRAM 13 Speed

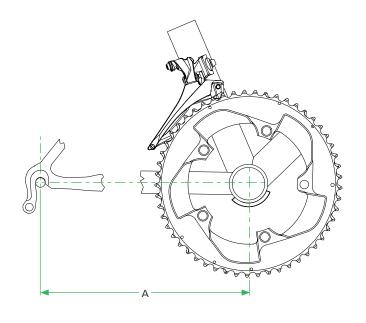
	Chainline (CL)	Chainline Dimension	Minimum Chainstay Length A (mm)	Over Locknut Dimension (OLD) [mm]
4	Wide / XPLR	47.5	415	142
1x	Standard	45	405-415	142



Frame Chainstay Information

SRAM 10 and 11 Speed

		Minimum Chainstay Length A (mm)		
Chainring		130 OLD* frames 135 OLD frames w/ Wide Axle Cranks	135 OLD frames	
	55/42	395	430	
	53/39		430	
2 v 11	52/36		410	
2x11	50/34	405	405	
	46/36		410	
	46/34		405	
	55/42	395		
	54/42	393		
	53/39			
2x10	52/36		430	
	52/38	405		
	50/34			
	46/36			



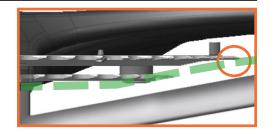
Potential problems with not following the minimum chainstay length

▲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.

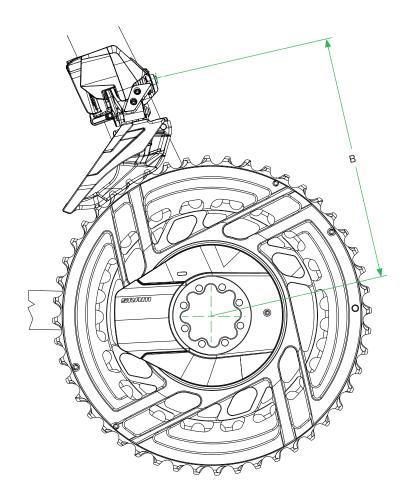


^{*}Over Locknut Dimensions

Braze-on Hanger Dimensions SRAM 12 Speed

	Chainring Size	Upper Fixation Bolt Height B (mm)	Lower Fixation Bolt Height B (mm)
	56/43	162.5	154.5
	54/41	158.5	150.5
	52/39	154.5	146.5
2x	50/37	150.5	NA
	48/35	146.5	NA
	46/33	142.5	NA
	43/30	136.5	NA

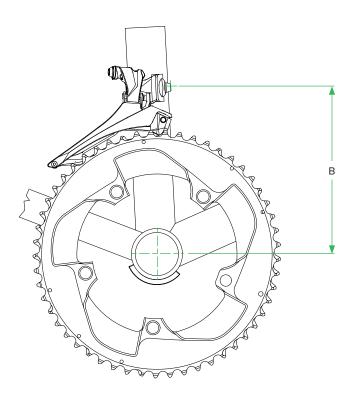
Nominal FD position provided, design should allow for adequate adjustment range in the FD hanger slot to account for tolerances.



Braze-on Hanger Dimensions

SRAM 10 and 11 Speed

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



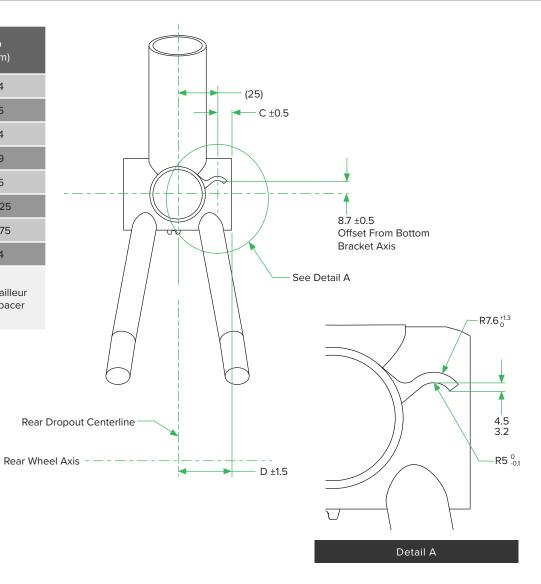
Braze-on Hanger Dimensions

Front Derailleur Interface

BB Shell Type	BB Shell Width* (mm)	C (mm)	D (mm)
BSA / PressFit30 / BB30	68	9	34
BSA / PF30 / BB30**	73	11.5	36
BB30-73A / PF30-73A	73	9	34
BB30-83A / PF30-83A	83	8	39
Italian	70	10	35
PressFit 86.5, BB386	86.5	18.25	43.25
T47 85.5	85.5	17.25	42.75
PF79-A	79	9	34

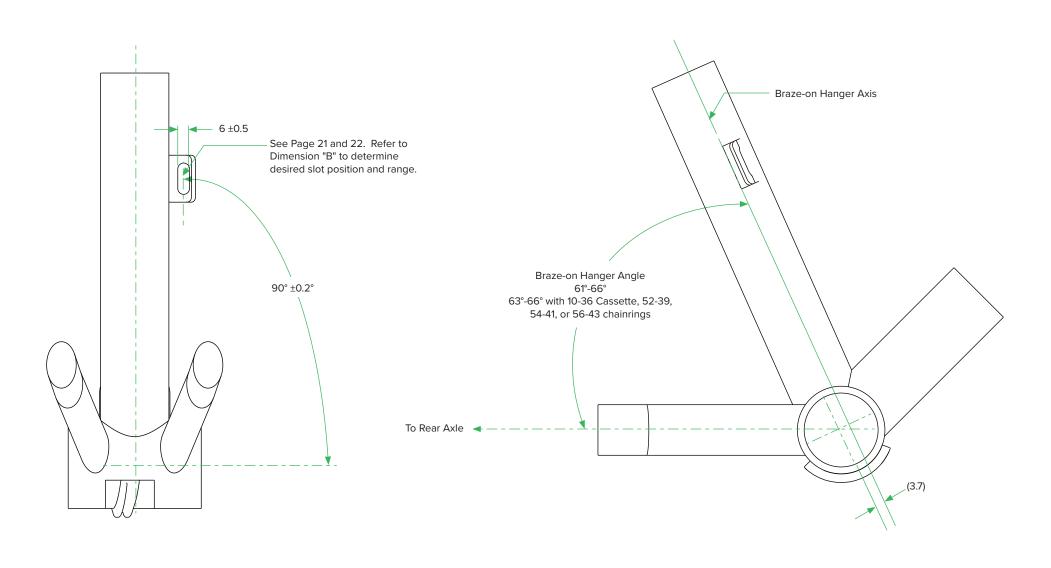
^{*} Dimensions provided for reference, see BB Shell Specifications.

^{**}BSA / PF30 / BB30 73 mm supported by wide chainline front crank and front derailleur only, see the DUB Road and MTB Crankset and Bottom Bracket User Manual for spacer configuration.



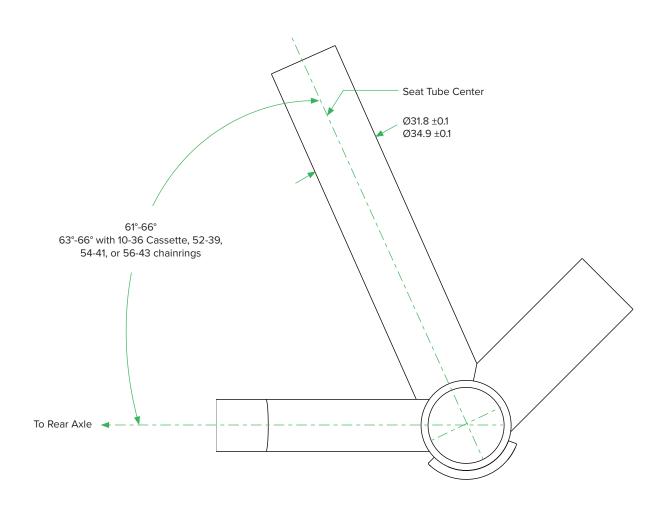
Braze-on Hanger Dimensions

Front Derailleur Interface



Clamp-on Front Derailleur Mount Dimensions

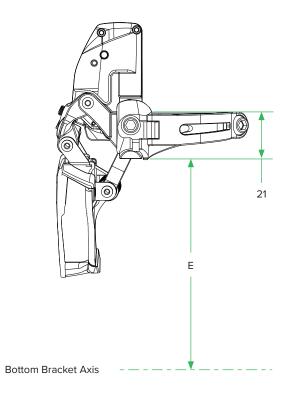
Front Derailleur Interface



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			
	43-30	121.5			

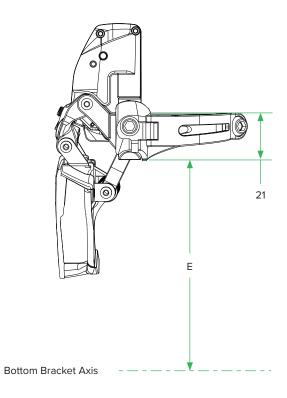
Nominal FD position provided, design should allow for adequate adjustment range of the clamp along the seat tube to account for tolerances.



Front Derailleur Position with Clamp Adapter

SRAM 10 and 11 Speed

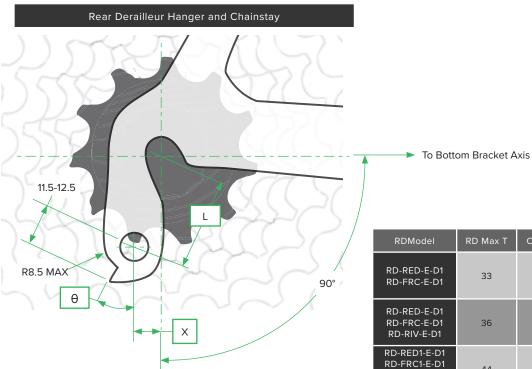
	Q	Lower Clamp Position			
	Chainring	E (mm)			
2x11	55-42	136			
	53-39	132			
	52-36	130			
	50-34	126			
	46-36	118			
2×10	55-42	149			
	54-42	147			
	53-39	145			
	52-36	143			
	52-38	143			
	50-34	139			
	46-36	131			



Rear Derailleurs

Hanger and Chainstay Specifications

SRAM Road Rear Derailleurs*



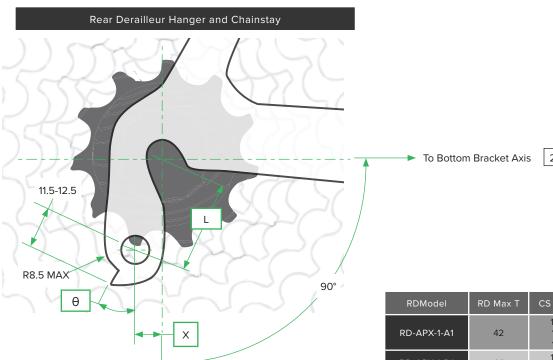
* Make sure that frame chainstay remains clear of Road Rear Derailleur Frame Clearance specification zone when configured with this cassette size. The rear derailleur may interfere with the chainstay if it is designed to the limits of UDH Hangerless Interface Clearance Model when used with this cassette. Refer to SRAM Road Drivetrain Frame Fit Specifications and UDH & Full Mount Rear Derailleur Frame Specifications.

- 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.
- Refer to the <u>Frame Chainstay</u>
 <u>Information</u> page for 1x and 2x chainstay length.
- Full Mount Rear Derailleur is only compatible with the UDH Frame interface. For more information visit www.universalderailleurhanger.com.

RDModel	RD Max T	CS Variant	Hanger Style	L (mm)	X (mm)	T QR (mm)	T Thru Axle (mm)	θ (°)
RD-RED-E-D1 RD-FRC-E-D1	33	10-26 10-28 10-30 10-33						
RD-RED-E-D1 RD-FRC-E-D1 RD-RIV-E-D1	36	10-28 10-30 10-33 10-36	Road	24-28	7-10	7-9	3.5-5.5	30-35
RD-RED1-E-D1 RD-FRC1-E-D1 RD-RIV1-E-D1 RD-APX-1E-D1	44	10-36 10-44 11-44						
RD-RED-E-D1 RD-FRC-E-D1	33	10-28 10-30 10-33						
RD-RED-E-D1 RD-FRC-E-D1 RD-RIV-E-D1	36	10-28* 10-30 10-33 10-36	UDH	30 +/- 0.2	8 +/-0.2	8.5 +/-0.25	5 +/-0.25	25-30
RD-RED1-E-D1 RD-FRC1-E-D1 RD-RIV1-E-D1	44	10-36* 10-44						
RD-RED-E-E1	36	10-28* Road L - 26 r 10-30 min	Road L - 26 mm min	26-28	7-10	7-9	3.5-5.5	30-35
ND-RED-E-EI	30	10-33 10-36	UDH	30 +/- 0.2	8 +/-0.2	8.5 +/-0.25	5 +/-0.25	25-30
RD-RED-1E-E1	46	10-46				3		

Hanger and Chainstay Specifications

SRAM Derailleurs*



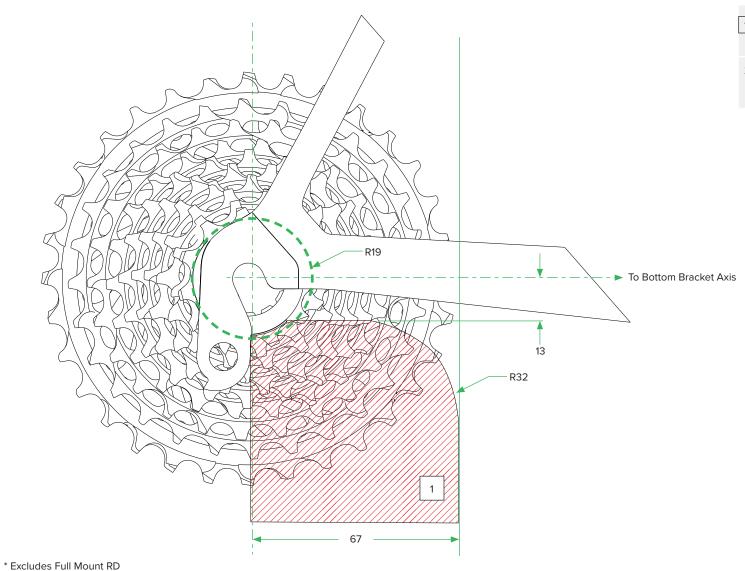
- Chainstay should be designed for sufficient clearance to the chain when on the smallest cog to avoid contact between chain and chainstay when riding over a rough surface.
- Refer to the <u>Frame Chainstay</u> <u>Information</u> page for 1x and 2x chainstay length.

RDModel	RD Max T	CS Variant	Hanger Style	L (mm)	X (mm)	T QR (mm)	T Thru Axle (mm)	θ (°)
RD-APX-1-A1	42	10-42 11-36 11-42	Road	24-28	7-10	7-9	3.5-5.5	30-35
RD-APX-1-D1	44	10-44 11-44	Road L 26 mm min	26-30	7-10	7-9	3.5-5.5	30-35
RD-APX-152-D1	52	10-50 10-52 11-50	Road L 26 mm min	26-30	7-10	7-9	3.5-5.5	30-35

^{*} Make sure that frame chainstay remains clear of Road Rear Derailleur Frame Clearance specification zone when configured with this cassette size. The rear derailleur may interfere with the chainstay if it is designed to the limits of UDH Hangerless Interface Clearance Model when used with this cassette. Refer to SRAM Road Drivetrain Frame Fit Specifications and UDH & Full Mount Rear Derailleur Frame Specifications.

Rear Derailleur Frame Clearance

SRAM Road Rear Derailleurs*



Keep this area clear for rear derailleur clearance.

Refer to UDH Frame Specification for Frame Clearance on Full Mount Rear Derailleur.

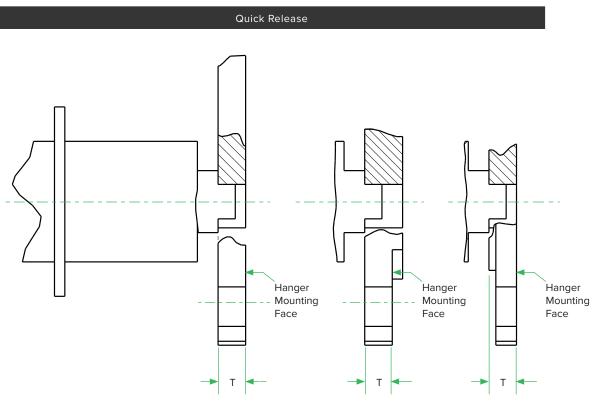
Universal Derailleur Hanger Specifications

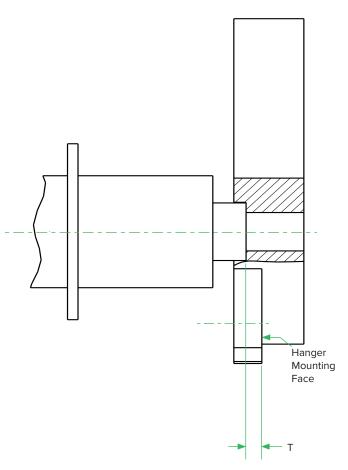
Please visit www.UniversalDerailleurHanger.com for complete specifications.

Hanger Specifications

SRAM Road Rear Derailleurs

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



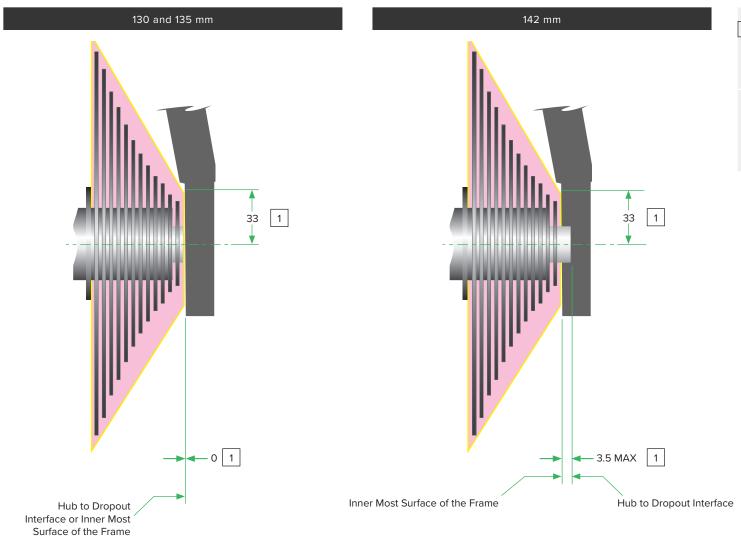


Thru Axle

^{1.} Shown hanger specifications not applicable for UDH interface.

Frame Rear Dropout Clearance

12 Speed Road Chain and Cassette



- An XDR driver body compliant hub is required. Refer to http://xddriverbody.com/ for freehub driver body specifications.
- 2 Refer to UDH Frame Specification for Chain and Cassette Clearance used on 13 Speed Full Mount Rear Derailleurs.

Cable Routing

Cable Housing Stop and AXS Extension Cord Dimensions

Use dedicated derailleur cables and housings with compressionless housing, low friction liner, aluminum ferrules without sealing, and 1.1 mm polished cable.

Ferrule diameter 5.7+0.1 mm. Continuous housing only.

Maximum total bend angle of 500 $^{\circ}$. Minimum bend radius of 50 mm.

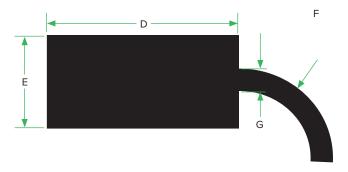
Avoid: S-bends with small radii and pinch spots (high housing clamping force).

Exit at the rear end best at seat stay or on top of the chain stay.

Minimize cable bending due to suspension and handlebar motion

	AX	XS Extension Cord	
MAX Length Connector D	MAX Diameter Connector E	MIN Bending Radius F	MAX Cable Diameter G
19	Ø 5.8	8.4	Ø 4

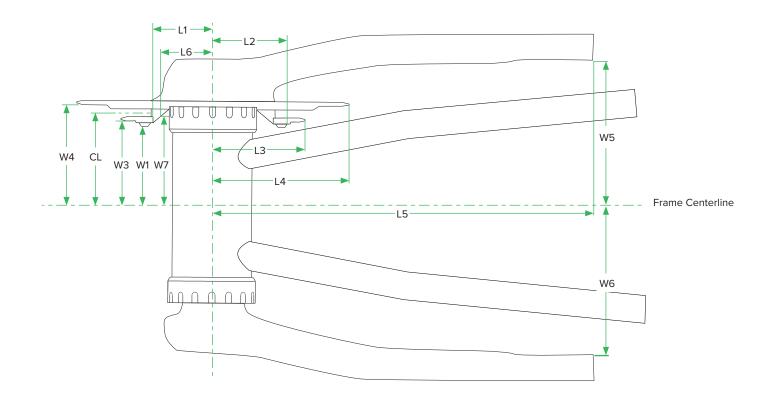
For compatibility with the AXS Extension Cord, a cyclinder diameter (diameter E and length D), must pass through the designated internal cable routing path of the frame.



Road Cranksets

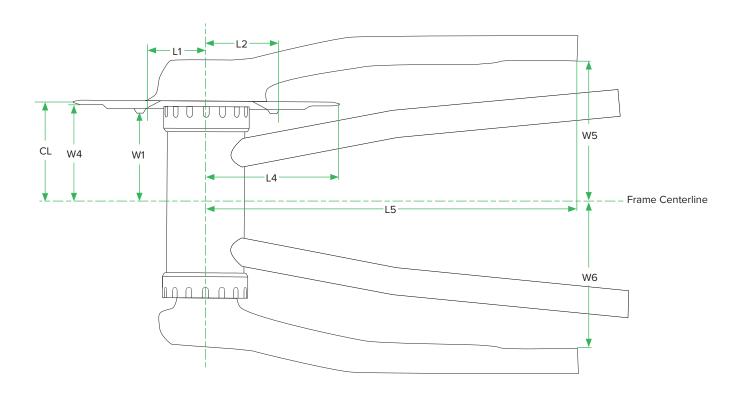
Crankset Diagram

12 Speed 2X



Crankset Diagram

12 Speed 1X



Crankarm and Chainring Frame Clearance 12 Speed

Chainring Configuration	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	W1 (mm)	W3 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	W7 (mm)	CL (mm)	Q-Factor
(Standard) SRAM I	RED/ SRAM	Force/ SRAN	M Rival											
56-43			89.3	114.6										
54-41			85.5	110.6										
52-39	47.0	7.0 60.0	81.5	106.4	190.0	35.0	37.3	39.9	47.7	60 60	42.8	45	145	
50-37	47.0		77.4	102.4			37.3			60	60	42.0	45	145
48-35			73.4	98.3										
46-33			69.4 94.3											

(Wide) SRAM Forc	e Wide/ SRA	AM Rival Wid	e											
43-30 Wide	40.5	54.9	63.3	88.2	190	31.5	39.8	42.4	50.2	62.5	62.5	45.7	47.5	150

SRAM 12 Speed cranksets must also meet Spider Frame Clearance requirements for Quarq AXS Power Meters.

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)	CL (mm)	Q-Factor
	(Standard) SRAM	RED 1x AXS/	SRAM Forc	e 1x AXS							
	68			141.0							
	66			136.9		40.0				40.5	
	64			132.9		43.9	44.8			46.5	
	62			128.9							
unt	60			124.8							
Direct Mount	58			120.8							
Dire	56			116.7							
	54			112.7							
	52	38.5	46	108.7	190			60	60		145
	50			104.6							
	48			100.6		41.5	43.4			45	
	46			96.6							
	44			92.5							
107 BCD	42			88.5							
107	40			84.4							
	38			80.4							
	36			76.4							
	(Wide) SRAM RED	1x AXS Wid	e/ SRAM Fo	rce 1x AXS V	Vide/ SRAM	Rival 1x AXS	S Wide				
	46			96.6							
nnt	44			92.5							
Direct Mount	42	N/A	N/A	88.5	190	N/A	45.7	62.5	62.5	47.5	150
Direc	40			84.4							
	38			80.4							

Spider Frame Clearance

Quarq AXS Platform Power Meters

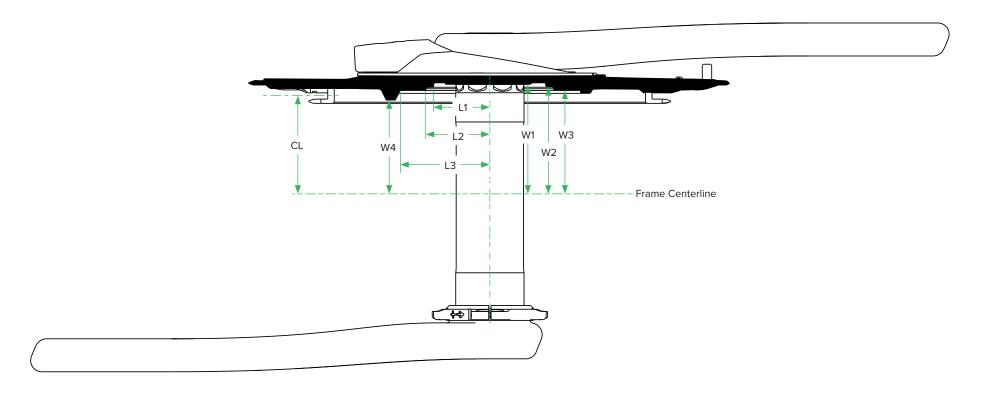
L1 (mm)	L2 (mm)	L3 (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W4 (mm)	CL (mm)
24.0	27.0	37.2	Standard: 48 Wide: 50.5	Standard: 46.7 Wide: 49.2	Standard: 44.3 Wide: 46.8	40.7	Standard: 45 Wide: 47.5

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

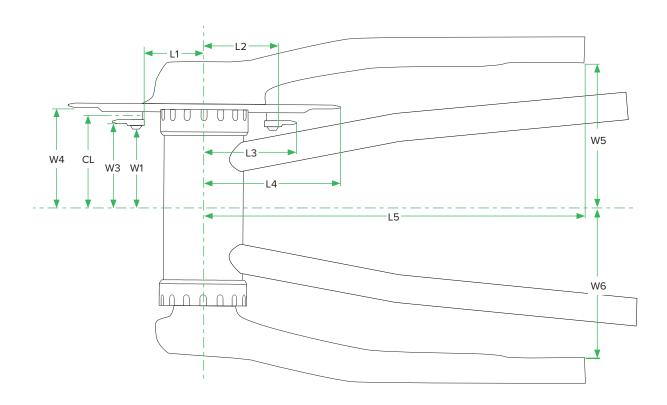
The image depicts a 2X SRAM RED integrated chainring power meter, but dimensions apply to all AXS spider-based power meters.

Dimensions are to the component and do **not** include clearance for debris. Consider additional frame clearance to compensate for mud/grit/debris picked up during normal riding conditions.



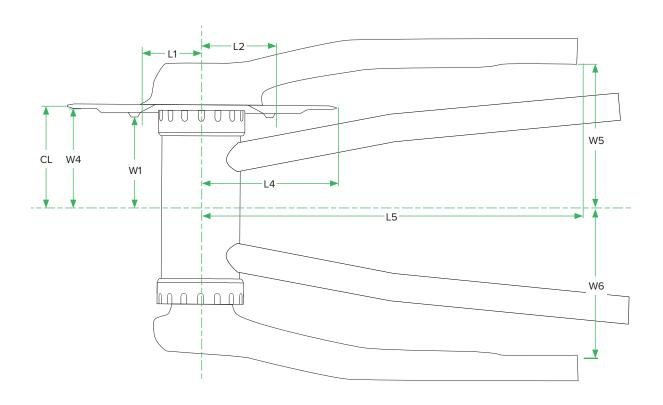
Crankset Diagram

11 Speed



Crankset Diagram

11 Speed and Singlespeed



Crankset Frame Clearance

L3 (mm)

L4 (mm)

L5 (mm)

L2 (mm)

11 Speed

Chainring

	, ,	, ,	- (/		- (/	, ,	- (/	` ′	- (/	- (/	, ,		71
(Standard) SR	AM RED*/ SR	AM Force/ SI	RAM RED Qua	ırq Power Me	eters/ Quarq P	Prime Carbon	Power Read	y/S902/S952					
55-42	57.0	71.0	88.0	113.1		38.0		47.5					
53-39	37.0	71.0	81.8	109.2		37.7		47.5					GXP BB30
52-36			75.0	107.0	197.0		40.0		60.0 MIN	60.0 MIN	45	145	PF30 PFGXP
50-34	47.0	61.0	71.0	103.2		38.0		48.0					FIGAR
46-36			75.0	95.1									
* Cranksets car	n be configure	ed to fit BB386	, BB30a, and B	Bright.									
(Wide) SRAM	Pival Wido/ S	: 552											
52-36	Kivai Wide/ S	5-332	75.0	106.8									OVE
32 30	47.0	61.0	73.0	100.0	192.1	41.0	42.9	50.6	63.8 GXP/ PFGXP	63.8	47.5	154.6 GXP/ PFGXP	GXP BB30
50-34	17.0	01.0	71.0	103.1	102.1	11.0	12.3	30.0	62.8 BB30	62.8 BB30	17.0	152.4 BB30/ PF30	PF30 PFGXP
(Standard) SR	AM Rival 1x/	Quarq Prime	Aluminum Po	wer Ready									
52-36			75.0	106.8					61.3	61.3		149.6	GXP
50-34	47.0	61.0	71.0	103.1	192.1	38.5	40.4	48.1	GXP/ PFGXP 60.3	GXP/ PFGXP 60.3	45	GXP/ PFGXP 147.4	BB30 PF30
46-36			75.0	95.1					BB30/ PF30	BB30/ PF30		BB30/ PF30	PFGXP
(Standard) SR	AM S-390												
50-34				103.1									GXP
	57.3	61	71		191.5	40.4	42.4	50.1	62	62	45	149	BB30 PF30
46-34				95.1									PFGXP

W3 (mm)

W4 (mm)

W5 (mm)

W6 (mm)

Q-Factor

ВВ Туре

Crankset Frame Clearance

11 Speed

Chainring	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	CL (mm)	Q-Factor	ВВ Туре	Chainstay Length (mm)
(Standard) SR	RAM Force 1											
54	57.0	72.0	112.2									
52	57.0	72.0	108.2									
50			104.1									
48			100.1								GXP	
46			96.1	197.0	38.0	43.7	60.0	60.0	45	145	BB30 PF30	≥ 395
44	47.0	62.0	92.0								PFGXP	
42			88.0									
40			84.0									
38			79.9									
(Standard) SR	AM Rival 1											
50			104.1									
48			100.1									
46			96.1				61.3	61.3		149.6	GXP	
44	47.0	62.7	92.0	192.1	38.0	43.7		GXP/ PFGXP 60.3	45	GXP/ PFGXP 147.4	BB30 PF30	≥ 395
42			88.0					BB30/ PF30		BB30/ PF30	PFGXP	
40			84.0									
38			79.9									
(Standard) SR	RAM Apex 1											
44			92.0								GXP	
42	49.0	61.0	88.0	191.7	41.3	43.7	62.0	62.1	45	149	BB30	≥ 395
40			83.9								PF30 PFGXP	
40			83.9								2.7.12	

Crankset Frame Clearance

11 Speed and Singlespeed

Chainring	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	W1 (mm)	W4 (mm)	W5 (mm)	W6 (mm)	CL (mm)	Q-Factor	ВВ Туре	Chainstay Length (mm)
(Standard) SR	2AM S350-1											
44			92.0								GXP	
42	47.0	62.7	88.0	196.7	38.0	43.7	60.0	60.0	45	145	BB30 PF30	≥ 395
40			84.0								PFGXP	
(Standard) Or	nnium											
48	64.5	78.0	99.1	195.4	35.5	42.5	55.0	54.7	45	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)	CL (mm)	Q-Factor	ВВ Туре	
(Standard) SF	РАМ Арех													
53-39	57.0	71.0	81.0	109.2										
50-34			74.0	103.2	4067	20.0	40.0	47.0	60.0	60.0	45	445	GXP BB30	
48-34	47.0	61.0	71.0	99.0	196.7	38.0	40.0	47.3	60.0	60.0	45	145	PF30 PFGXP	
46-36			75.0	95.1										
(Standard) To	uro										1	·		
53-39-30	29.0	41.0	63.0	109.2				48.0						
48	47.0		NA	99.0	190.5	20 E	40.5	NA	61.0	59.0	45	145	Power Spline	
G52	F70	71.0		407.2	442.5	190.5	38.5	40.5	46.0	01.0	59.0	45	145	
G53	57.0		107.2	112.5				46.0					Square	

SRAM Road Drivetrain with E-Bike Fitment

E-Bike Configurations

Road systems are compatible with road or gravel E-Bike use except for CN-RIV-D1 and CN-APX-D1 chains.

Hub drive type:

• All configurations OK; follow all frame fit dimensional specifications.

Mid drive type:

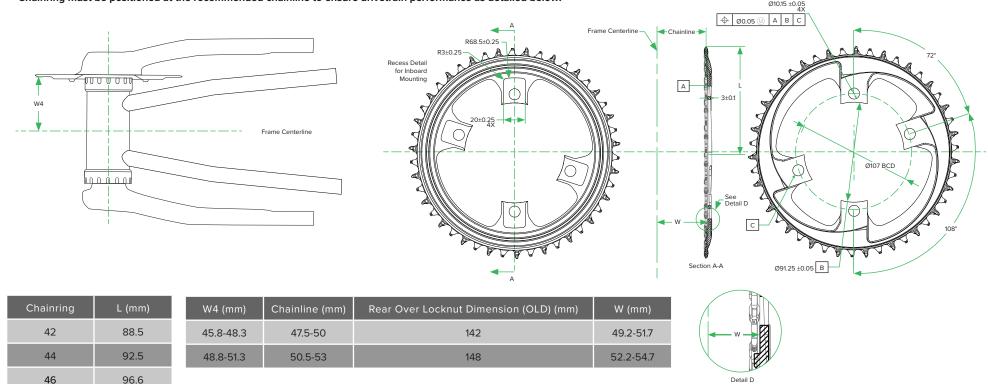
- · Only 1x configurations are approved.
- Follow front chainline and interface requirements on the next page.

SRAM Road Drivetrain with E-Bike Fitment

E-Bike Configurations

- SRAM Road Drivetrain 1x Chainring Fit Specification for E-bikes
- Customer may configure their own spider to assemble a SRAM X-Sync chainring to their mid-drive E-powertrain in order to achieve the best performance with a SRAM Road Drivetrain.

 Chainring must be positioned at the recommended chainline to ensure drivetrain performance as detailed below:

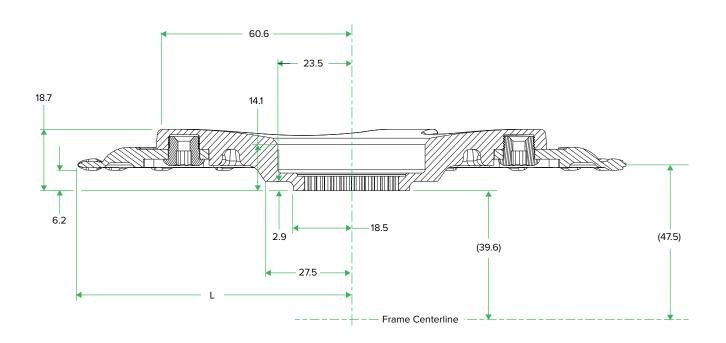


- Assure the chainring size desired will provide adequate clearance for the frame design by referencing dimensions L and W4, then select a front chainline that meets your frame clearance design requirements.
- Depending on the front chainline needed, select the appropriate rear over locknut dimension (i.e. rear wheel axle width). OLD should depend on the front chainline that is needed for frame clearance. This assures the drivetrain will perform as intended.
- Chainring must be positioned relative to frame centerline with a spider mounting interface that is offset from the frame centerline according to dimension W, the dimension to the chainring inboard mounting interface. Chainring may alternatively be mounted by the outboard mounting interface if desired, if so, account for chainring tab thickness.
- · Customer is responsible for verifying crankarm and spider clearances for non-SRAM spider and/or crankarms.

E-Road Spider Frame Clearance

Bosch Gen 4

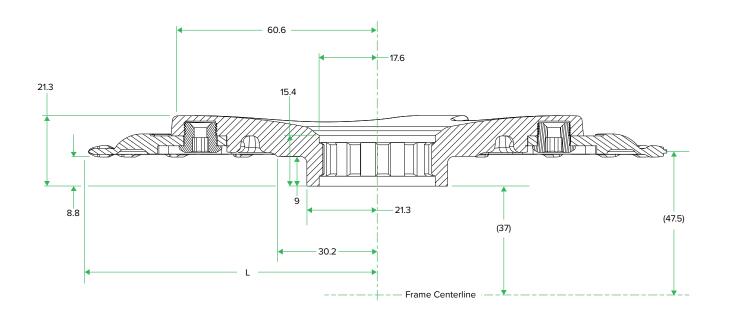
Chainring	L (mm)
42	88.5
44	92.5
46	96.6



E-Road Spider Frame Clearance

Fazua

Chainring	L (mm)
42	88.5
44	92.5
46	96.6



Spider Frame Clearance

Quarq DZero Platform Power Meters

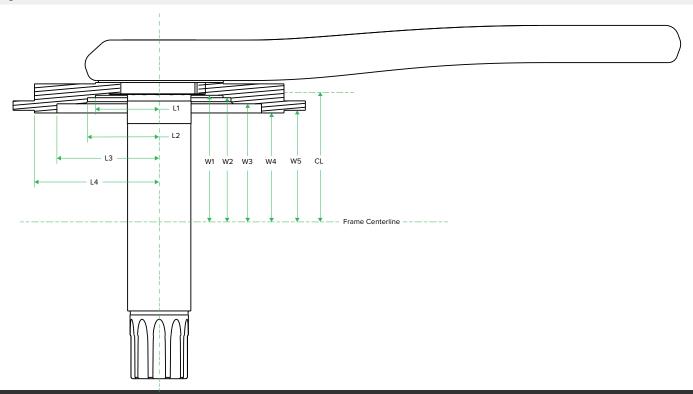
Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W4 (mm)	W5 (mm)	CL (mm)
DZero 110			38.5	46.95					42.0	
DZero 130	24.0	27.0	39.0	56.95	47.6	46.7	44.4	41.0	42.0	45
DFOUR			38.5	46.95					41.9	

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.

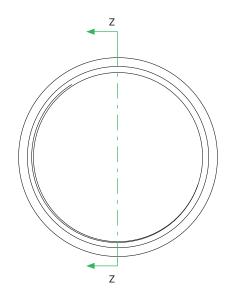
Dimensions are to the component and do **not** include clearance for debris. Consider additional frame clearance to compensate for mud/grit/debris picked up during normal riding conditions.



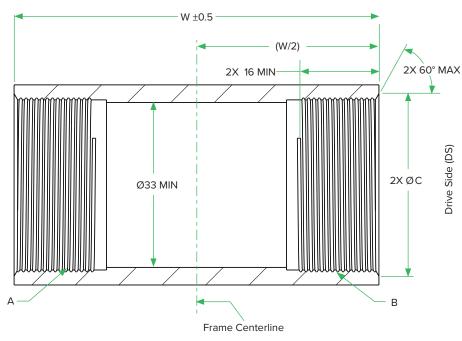
Bottom Bracket Shell Specifications

BSA and Italian Bottom Bracket

Road Bottom Bracket Frame Shell Specification







	W	А	В	С
BSA 68	68 ±0.5	BC 1.37" x 24 TPI R.H.*	BC 1.37" x 24 TPI L.H.*	ø 36 ø 37
BSA 73**	73 ±0.5			
DUB Italian	70 ±0.5	36 mm x 24 TPI - 6G - R.H.***		ø 37 38
GXP Italian	70 ±0.5	36 mm x 24 TPI R.H.		

*Reference JIS B 0225

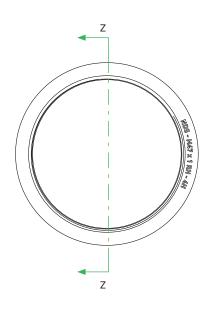
** BSA 73 is only supported by a wide chainline front crank and front derailleur.

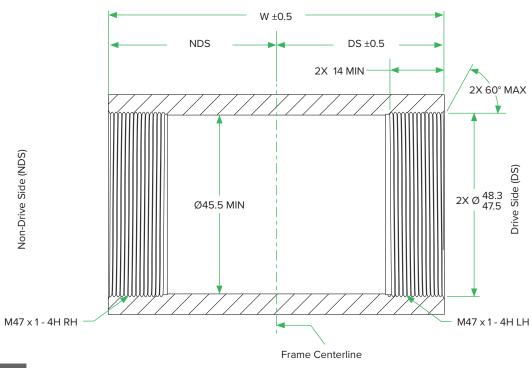
***Reference ASME B1.13M-2005

Section Z-Z

T47

Road Bottom Bracket Frame Shell Specification





	W	DS	NDS
T47 68	68	34	34
T47 77 - A	76.75	34	(42.75)
T47 85.5	85.5	42.75	(42.75)

Section Z-Z

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.

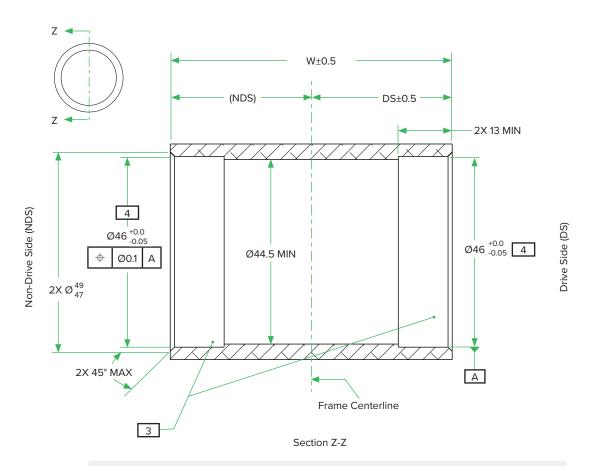
Things that should be considered when evaluating the frame and bottom bracket interaction include, but are not limited to:

- 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*	73	36.5		
PF30 73-A	73	34	39	
PF30 79-A 4	79	34	45	
PF30 83-A	83	39	44	

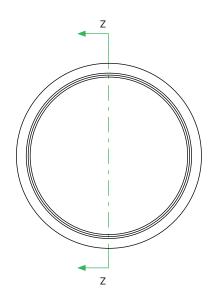
*PF30 73 is only supported by a wide chainline front crank and front derailleur.

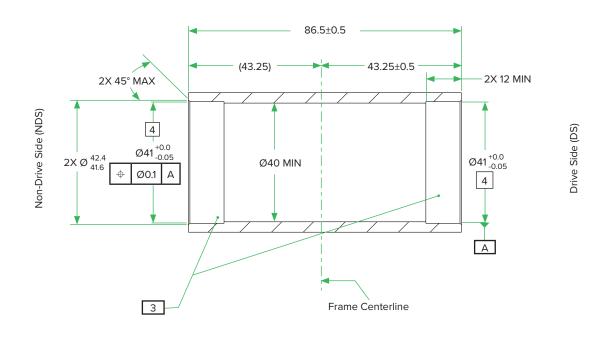


- 1 Dimensions apply after finishing.
- 2 Only dimensions essential to bottom bracket PressFit and function are shown. All other details are left to the discretion of the frame or component designer. Dimensions shown do not take the place of proper frame, bottom bracket shell, or crankset design.
- 3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

PressFit Road 86.5

Road Symmetric Frame Shell Specification





Section Z-Z

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

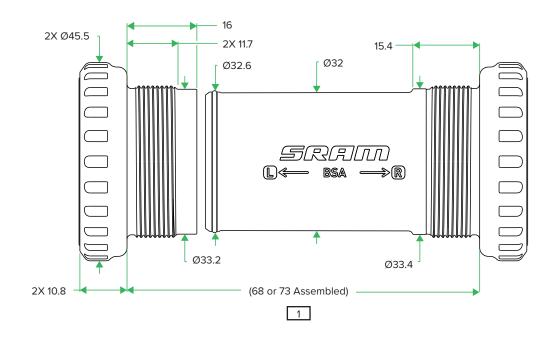
BB30

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 witthout 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.

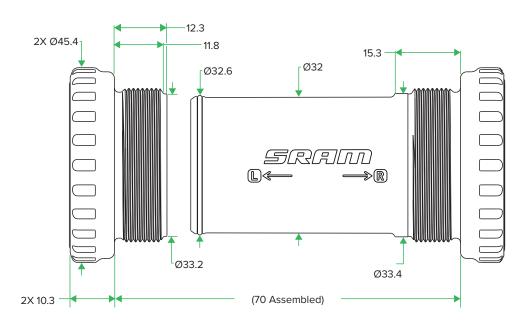
DUB Bottom Brackets

DUB BSA 68/73

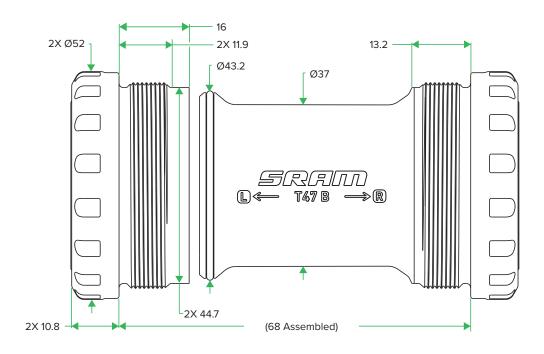


BSA 73 is only supported by a wide chainline front crank and front derailleur.

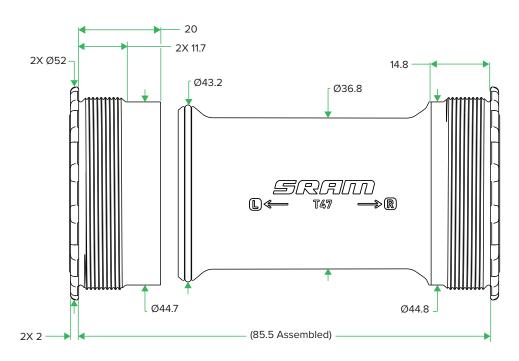
DUB Italian 70



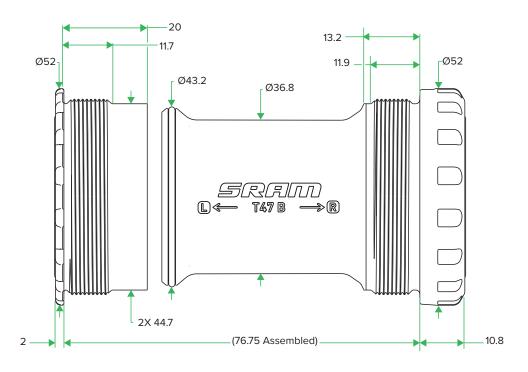
DUB T47 68



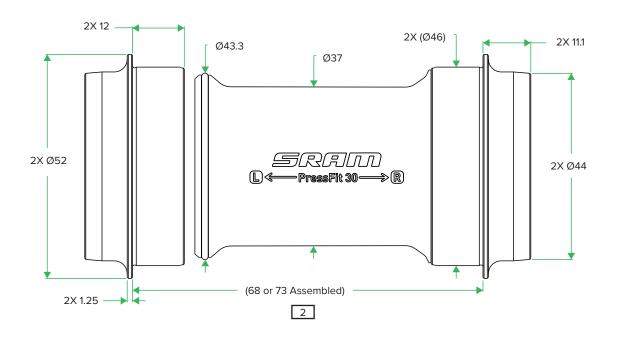
DUB T47 85.5



DUB T47 77-A



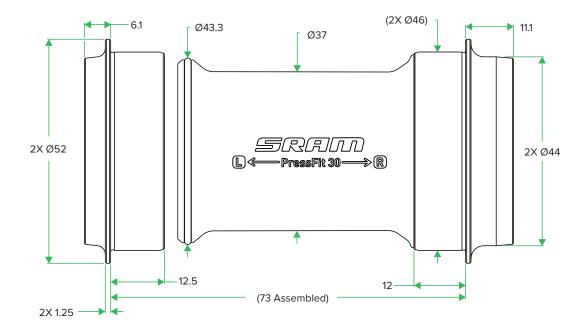
DUB PressFit 30 68/73



¹ Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

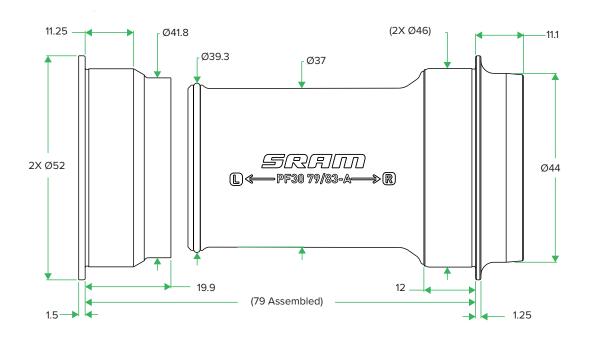
PressFit 30 73 is only supported by a wide chainline front crank and front derailleur.

DUB PressFit 30 73-A



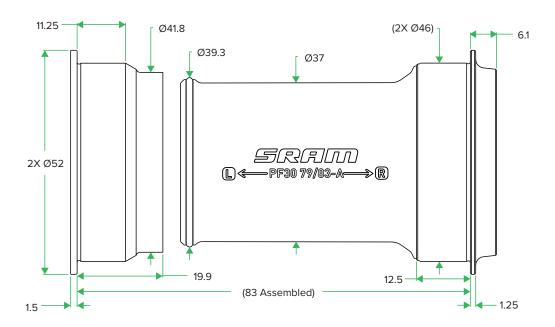
Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

DUB PressFit 30 79-A



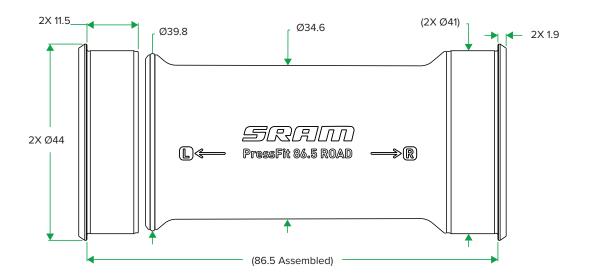
Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

DUB PressFit 30 83-A



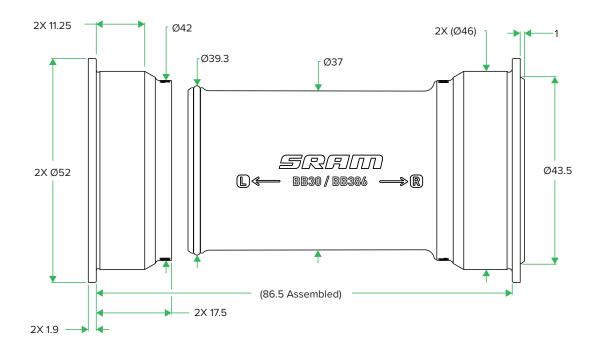
Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

DUB PressFit 86.5



Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

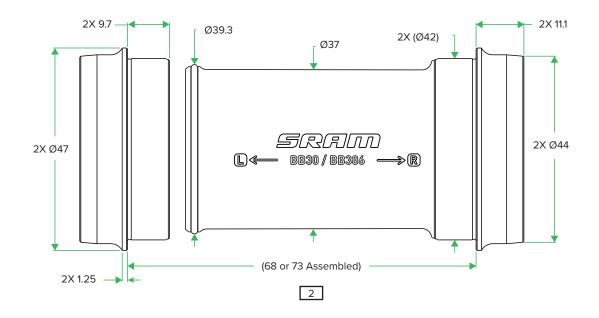
DUB BB386



Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

DUB BB30 68/73

Bottom Bracket Specification

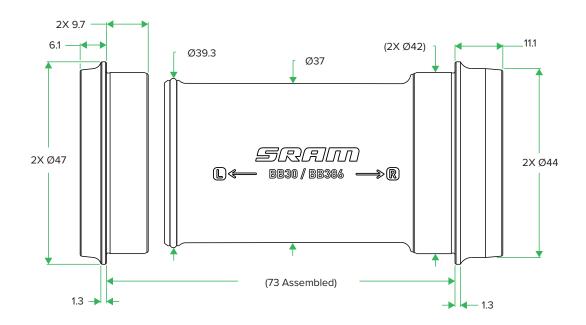


¹ Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

BB30 73 is only supported by a wide chainline front crank and front derailleur.

DUB BB30 73-A

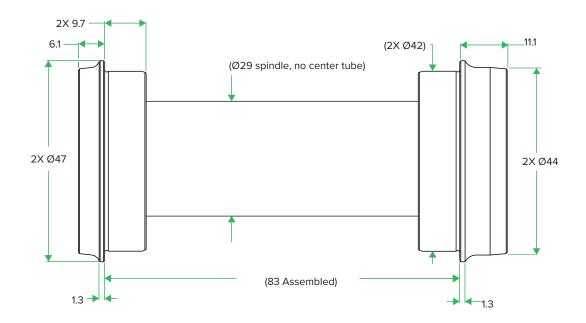
Bottom Bracket Specification



Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

DUB BB30 83-A

Bottom Bracket Specification



¹ Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

Brakes

Rotor Size Recommendation Chart

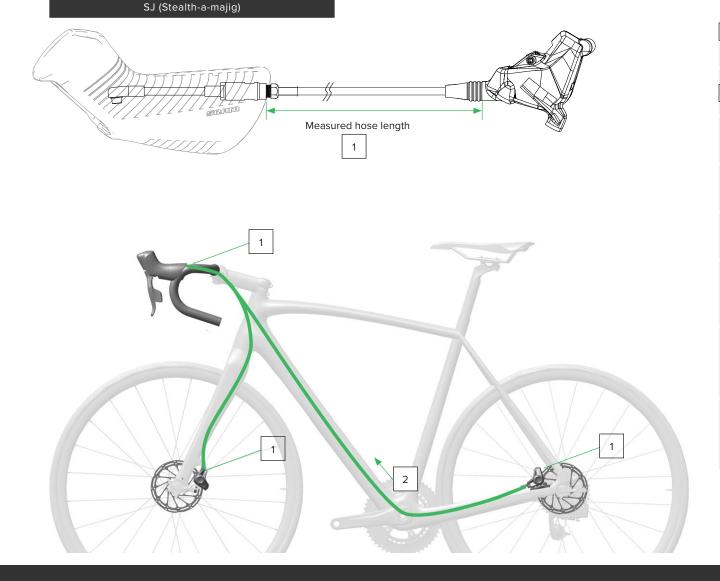
Custom Weight (Didox Dile)		Recommended Rotor Size (Rear/Front) (mm) 1				
System Weight (Rider + Bike)	Road, Gravel, Cyclocross 2	Cargo/E-Cargo, E-Commuter 3	Cross-country 3	Trail 3	Downhill 3	
< 140 lbs (63 kg)	140	160	160	160	180	
140-170 lbs (63-77 kg)	140/160	160/180	160/100	160/180	100	
170-200 lbs (77-91 kg)	140/160	160/180	160/180		180/200	
200-230 lbs (91-104 kg)	160		180/200	180/200		
230-260 lbs (104-118 kg)	160	180				
260-290 lbs (118-132 kg)	400/400			200	200	
290-320 lbs (132-145 kg)	160/180	200	200	200		
> 320 lbs (145 kg)	180	200	200	220	220	

- If riding styles conflict, it is up to the user to size up or size down based on necessary braking power.
- Road, Gravel, Cyclocross -- Consult the fork or frame manufacturer's specifications before installing a 140 mm or 180 mm rotor. These rotor sizes have compatibility limitations on many forks and frames.
- E-bikes -- Consult the appropriate riding style column and select rotor size based on system weight.

Rotor Type	Intended Use	Compatibility
HS2	МТВ	SRAM MTB and Road brakes.
Paceline	Road	SRAM Road brakes ONLY.
Centerline	All Ride Types	SRAM MTB and Road brakes.

SRAM RED eTap AXS/ SRAM Force eTap AXS/ SRAM Rival eTap AXS

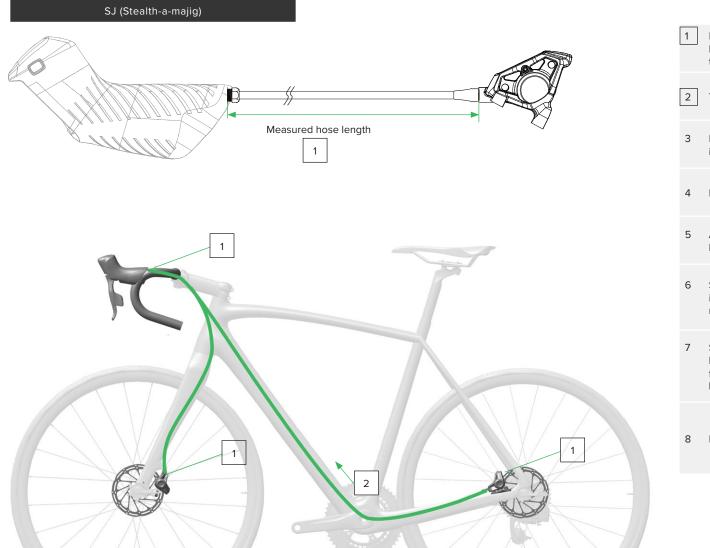
Disc Brake Hose Length Specification



- 1 FG hose length is measured from the caliper to the back of hood/bar interface. This is the same as caliper to disconnected SJ hose end.
- 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 and DOT 5.1 brake fluids with SRAM Hydraulic brakes.
- 8 Model codes: EB-RED-D1, ED-RED-D1, ED-RIV-D1, ED-RED-D1. EB-FRC-D1

SRAM RED AXS

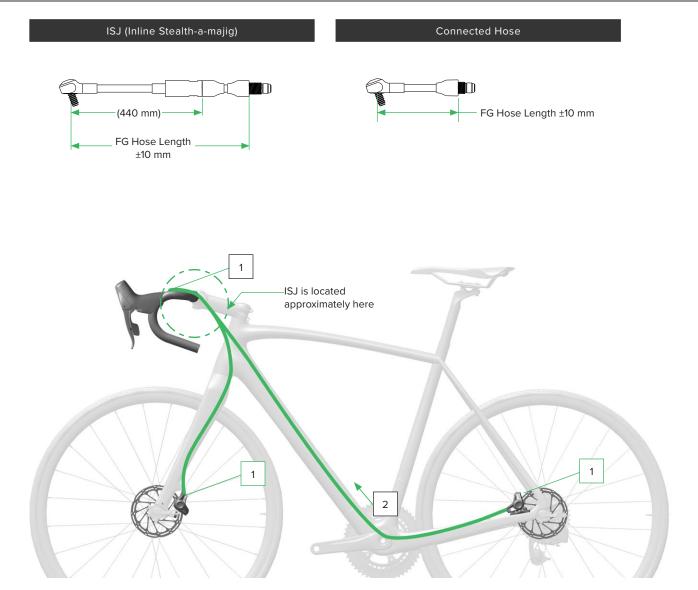
Disc Brake Hose Length Specification



- 1 FG hose length is measured from the caliper to the back of hood/bar interface. This is the same as caliper to disconnected SJ hose end.
- 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 and DOT 5.1 brake fluids with SRAM Hydraulic brakes.
- 8 Model code: ED-RED-E1

SRAM RED HRD/ SRAM Force HRD/ SRAM Rival HRD/ SRAM Apex HRD/ S-700 HRD

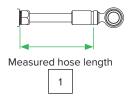
Disc Brake Hose Length Specification

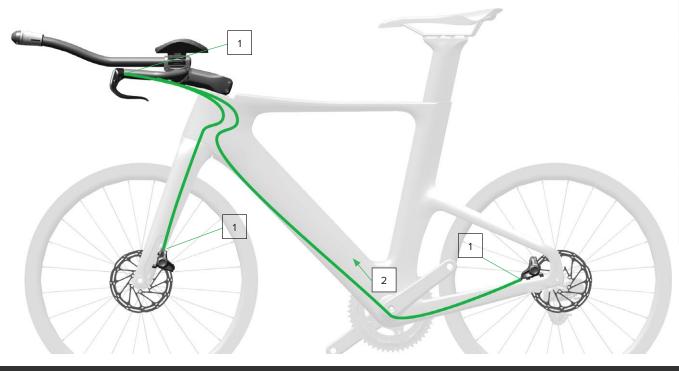


- 1 FG (Finished Good) hose equals the measured hose length from the hood/handlebar interface to the caliper plus 80 mm.
- 2 The ISJ hose routing is from back to front of bike.
- 3 For internal routing, the ISJ connection requires a hole in the frame or fork that is at least Ø5.1 mm.
- 4 Hose bend radius 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 brake fluids with SRAM® Hydraulic brakes.
- 8 Model codes: SB-RED-HRD-B2, ED-FRC-D2, ED-RIV-D1, SB-APX-HRD-A1, SB-700-HRD-B1

S-900 Aero HRD

Disc Brake Hose Routing Specification

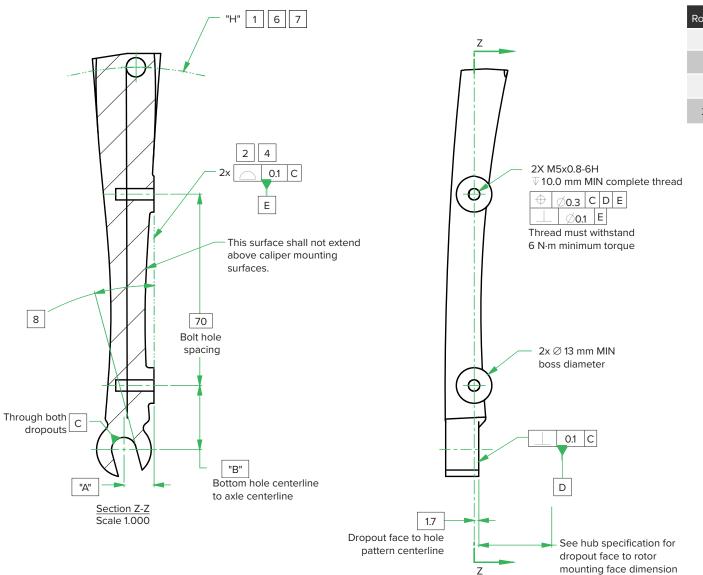




- 1 FG (Finished Good) hose equals the hose length from the endo of the handlebar to the caliper.
- The SJ hose routing is from back to front of bike.
- 3 For internal routing, the SJ connection requires a hole in the frame or fork that is at least Ø5.1 mm.
- 4 Hose bend radius at 20° C = 30 mm minimum.
- 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 and DOT 5.1 brake fluids with SRAM Hydraulic brakes.
- 8 Model code: DB-S-900-A1

Flat Mount Fork with Front Bracket Specification

SRAM Flat Mount Calipers and 140/160, 160/180, 180/200, 200/220 Rotor

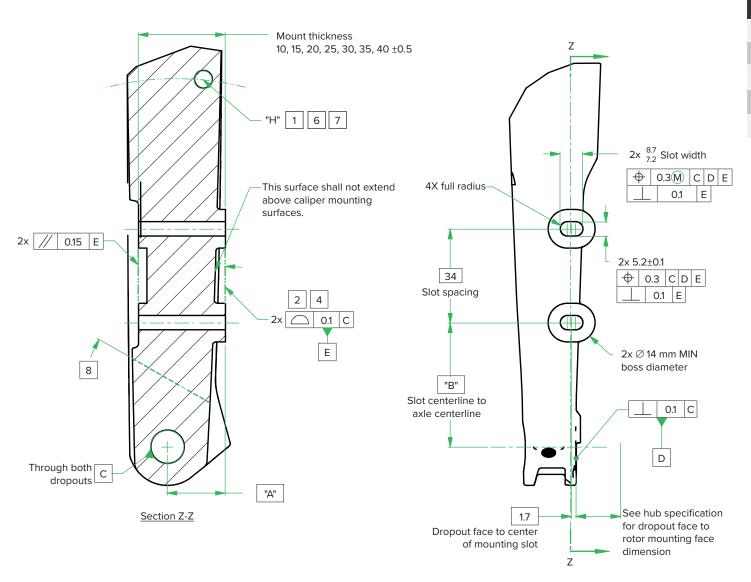


Rotor Ø (mm)	А	В	H (Radius)
140/160	11	23.5	140
160/180	16.7	32	150
180/200	22.4	40.5	160
200/220	28.1	49	170

- Minimum internal routing hole position does not apply to Connect-a-majig.
- There is potential for the fork and caliper interface to be exposed to high temperatures. This should be evaluated on all designs.
- 3 All dimensions and tolerances apply in free state and as assembled.
- 4 Surfaces must be free from paint.
- 5 All dimensions applied after paint unless otherwise specified.
- All surfaces that come in contact with brake hose should be free of burrs and sharp edges.
- Internal hose routing hole position radius "H" mm MIN from dropout &
- Wheel installation may be impeded by rotor-to-caliper interference when wheel installation path approaches or is less than 69°.

Flat Mount Thru Bolt Fork Specification

SRAM Flat Mount Calipers and 140/160/180/200/220 Rotor

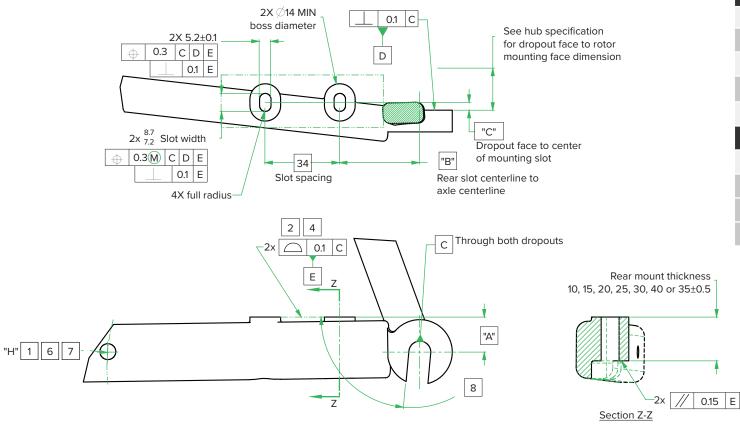


Rotor Ø (mm)	А	В	H (Radius)
140	16.0	36.5	140
160	21.0	45.0	150
180	26.0	53.5	160
200	31.0	62.0	170
220	36.0	70.5	180

- Minimum internal routing hole position does not apply to Connect-a-majig.
- There is potential for the fork and caliper interface to be exposed to high temperatures. This should be evaluated on all designs.
- 3 All dimensions and tolerances apply in free state and as assembled.
- 4 Surfaces must be free from paint.
- 5 All dimensions applied after paint unless otherwise specified.
- 6 All surfaces that come in contact with brake hose should be free of burrs and sharp edges.
- Internal hose routing hole position radius "H" mm MIN from dropout **¢**
- Wheel installation may be impeded by rotor-to-caliper interference when wheel installation path approaches or is less than 69°.

Flat Mount Thru Bolt Frame Specification

SRAM Flat Mount Calipers and 140/160/180/200/220 Rotor

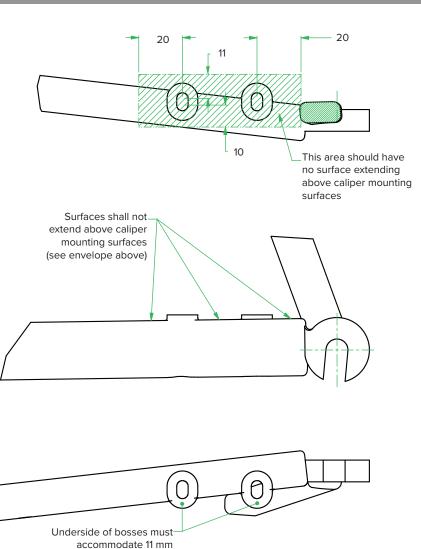


Rotor Ø (mm)	А	В	H (Radius)
140	16.0	36.5	140
160	21.0	45.0	150
180	26.0	53.5	160
200	31.0	62.0	170
220	36.0	70.5	180
Hub Spa	cing	С	
135		3	3.55
142			
148		7	7.05
157			

- Minimum internal routing hole position does not apply to Connect-a-majig.
- There is potential for the fork and caliper interface to be exposed to high temperatures. This should be evaluated on all designs.
- 3 All dimensions and tolerances apply in free state and as assembled.
- 4 Surfaces must be free from paint.
- All dimensions applied after paint unless otherwise specified.
- All surfaces that come in contact with brake hose should be free of burrs and sharp edges.
- 7 Internal hose routing hole position radius "H" mm MIN from dropout **¢**
- Wheel installation may be impeded by rotor-to-caliper interference when wheel installation path approaches or is less than 69°.

Flat Mount Thru Bolt Frame Specification

SRAM Flat Mount Calipers and 140/160/180/200/220 Rotor



diameter washer 4

Rotor Ø (mm)	А	В	H (Radius)
140	16.0	36.5	140
160	21.0	45.0	150
180	26.0	53.5	160
200	31.0	62.0	170
220	36.0	70.5	180
Hub Spacing		С	
135		3	3.55
142			

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

148

157

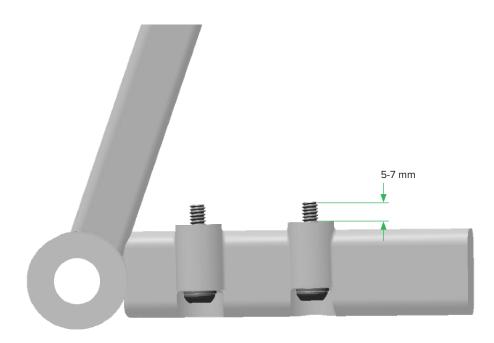
There is potential for the fork and caliper interface to be exposed to high temperatures. This should be evaluated on all designs.

7.05

- 3 All dimensions and tolerances apply in free state and as assembled.
- 4 Surfaces must be free from paint.
- 5 All dimensions applied after paint unless otherwise specified.
- All surfaces that come in contact with brake hose should be free of burrs and sharp edges.
- 7 Internal hose routing hole position radius "H" mm MIN from dropout **¢**
- Wheel installation may be impeded by rotor-to-caliper interference when wheel installation path approaches or is less than 69°.

Flat Mount Frame Specification

All SRAM Flat Mount Calipers



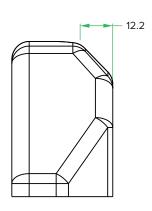
MARNING - CRASH HAZARD

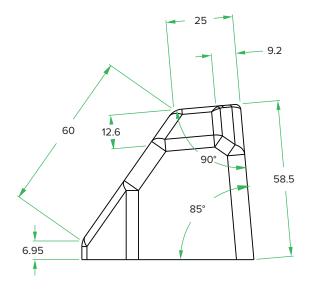
There must be 5-7 mm of mounting bolt thread engagement when mounting brake calipers to forks and frames with flat mount hardward and brackets. Riding a bike with improper bolt engagement can allow the brakes to disengage from the bicycle, which can lead to a crash and serious injury or death to the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

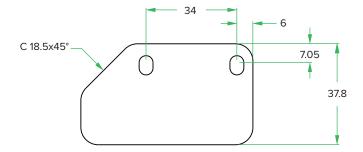
Available in rear bolt lengths: 17, 22, 27, 32, 37, and 42 mm.

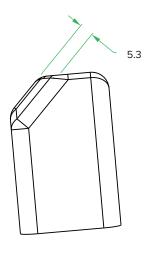
Flat Mount Frame Specification

Flat Mount Caliper Envelope





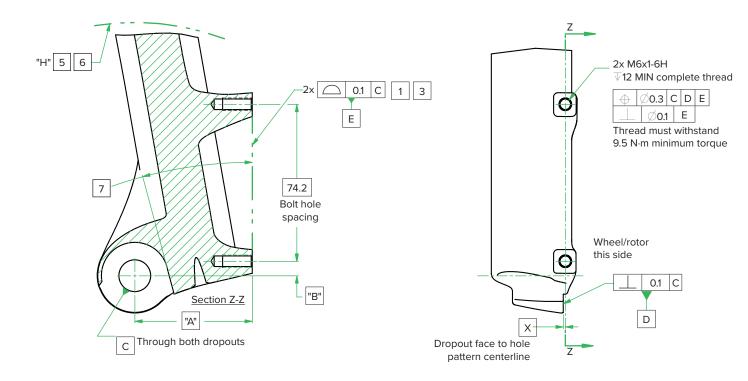




- 1 Refer to SRAM Connect for 3D envelope file.
- This envelope represents the keepout zone for all SRAM calipers with an additional 1mm of clearance to account for manufacturing tolerances, finish, paint, etc. Any additional clearance needed is responsibility of the frame design to be accounted for.

Post Mount Fork Specification

All SRAM Post Mount Calipers



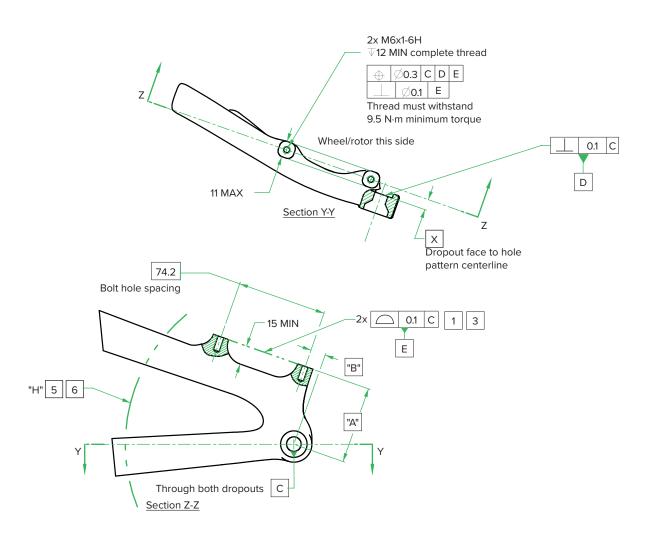
Rotor Ø (mm)	А	В	H (Radius)
140	47.24	1.8	140
160	55.9	6.8	150
180	64.56	11.8	160
200	73.22	16.8	170
203	73.9	18.8	172
220	81.88	21.8	180

Hub Standard	Х
9x100 (QR)	
15x100	0.94
15x110 Boost	
20x110 Boost	
Legacy 20x110	5.94

- There is potential for the fork and caliper interface to be exposed to high temperatures. This should be evaluated on all designs.
- 2 All dimensions and tolerances apply in free state and as assembled.
- 3 Surfaces must be free from paint.
- 4 All dimensions applied after paint unless otherwise specified.
- All surfaces that come in contact with brake hose should be free of burrs and sharp edges.
- 6 Internal hose routing hole position radius "H" mm MIN from dropout ℓ .
- Wheel installation may be impeded by rotor-to-caliper interference when wheel installation path approaches or is less than 20°.

Post Mount Frame Specification

All SRAM Post Mount Calipers



Rotor Ø (mm)	А	В	H (Radius)
140	47.24	1.8	140
160	55.9	6.8	150
180	64.56	11.8	160
200	73.22	16.8	170
203	73.9	18.8	172
220	81.88	21.8	180

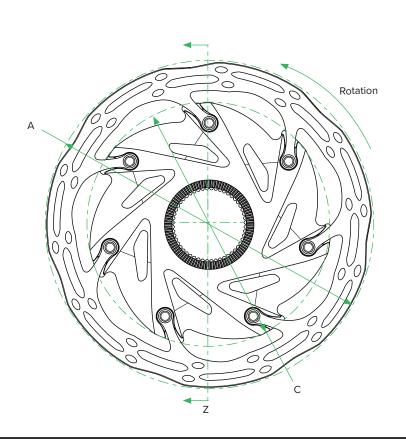
Hub Standard	Х
10×135 (QR)	5.7
12×142	
12x148 Boost	9.2
12x157 Super Boost	

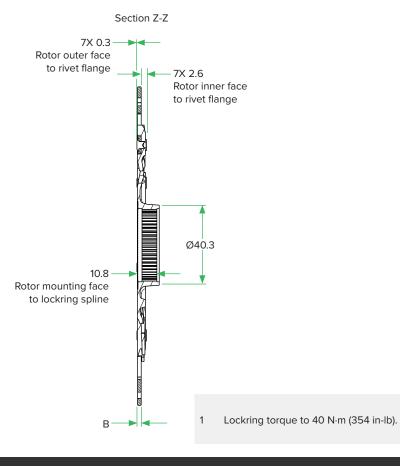
- There is potential for the fork and caliper interface to be exposed to high temperatures. This should be evaluated on all designs.
- 2 All dimensions and tolerances apply in free state and as assembled.
- 3 Surfaces must be free from paint.
- 4 All dimensions applied after paint unless otherwise specified.
- All surfaces that come in contact with brake hose should be free of burrs and sharp edges.
- Internal hose routing hole position radius "H" mm MIN from dropout & .

SRAM CenterLine XR

Two-piece Center Locking Rotor Dimensions

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

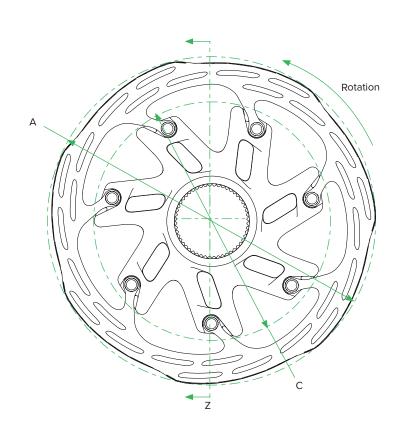


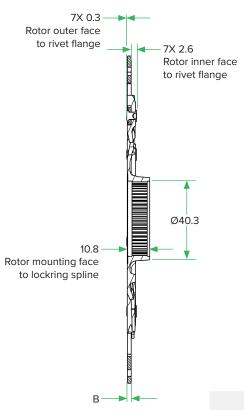


SRAM Paceline X

Two-piece Center Locking Rotor Dimensions

Datas	Datas Cina	Radiused Outer Diameter	Rotor Thickness	Carrier Diameter
Rotor	Rotor Size	A (mm)	B (mm)	C (mm)
,	140	140	1.85	92.5
Paceline X	160	160	1.85	115





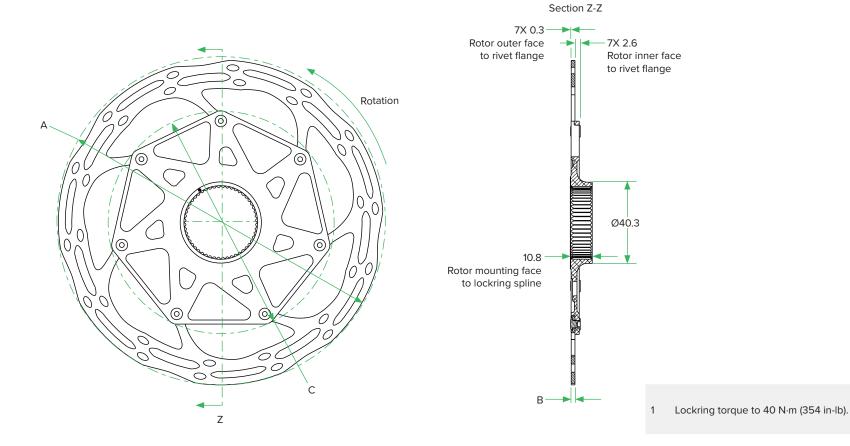
Section Z-Z

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

SRAM CenterLine X

Two-piece Center Locking Rotor Dimensions

Data	Datas Cira	Radiused Outer Diameter	Rotor Thickness	Carrier Diameter
Rotor	Rotor Size	A (mm)	B (mm)	C (mm)
	140	140	1.90	90.1
CLX	160	160	1.85	110.1
	180	180	1.85	130.1

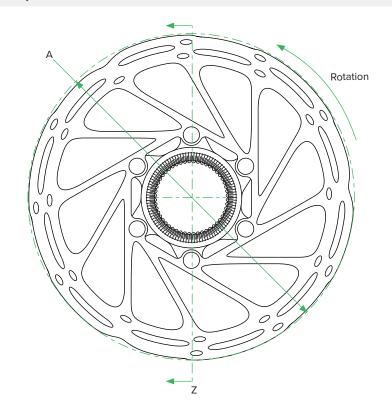


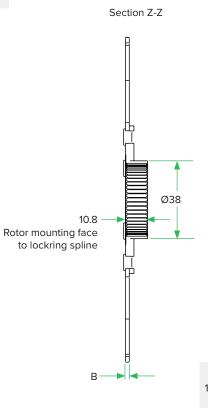
SRAM CenterLine/ SRAM Paceline

One-Piece Center Locking Rotor Dimensions

Datas aire	Radiused Outer Diameter	Rotor Thickness	
Rotor size	A (mm)	B (mm)	
140 mm	140		
160 mm	160	1.85	
180 mm*	180		

^{*} CenterLine only. Paceline does not come in a 180 mm rotor.



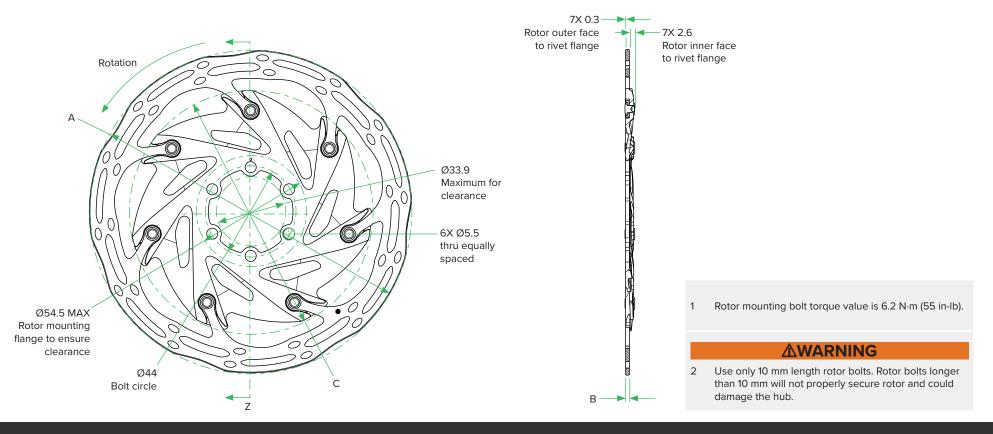


Lockring torque to 40 N·m (354 in-lb).

SRAM CenterLine XR

Two-piece 6-Bolt Rotor Dimensions

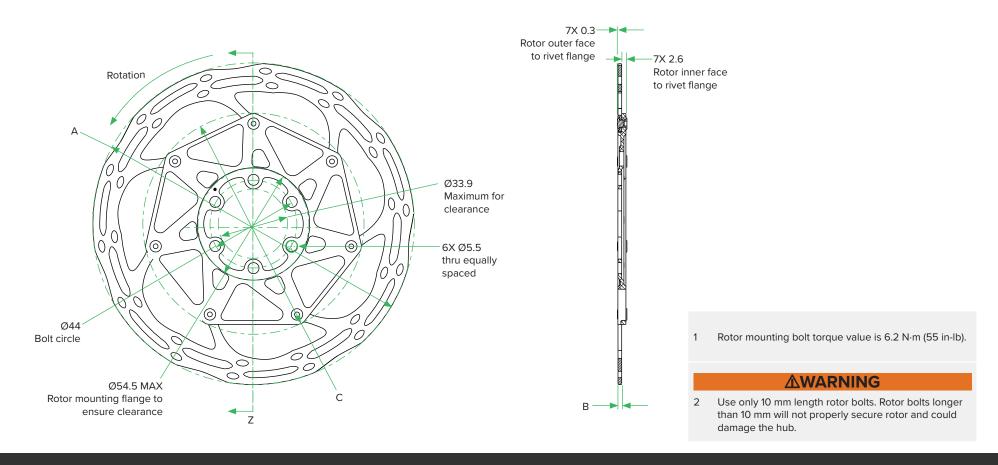
	Datas	Datas Cina	Radiused Outer Diameter	Rotor Thickness	Carrier Diameter	
	Rotor	Rotor Size	A (mm)	B (mm)	C (mm)	
CLX- R	140	140	1.90	100		
	160	160	1.85	120		



SRAM CenterLine X

Two-piece 6-Bolt Rotor Dimensions

Data	Datas Cias	Radiused Outer Diameter	Rotor Thickness	Carrier Diameter
Rotor	Rotor Size	A (mm)	B (mm)	C (mm)
	140	140	1.90	90.1
CLX	160	160	1.85	110.1
	180	180	1.85	130.1

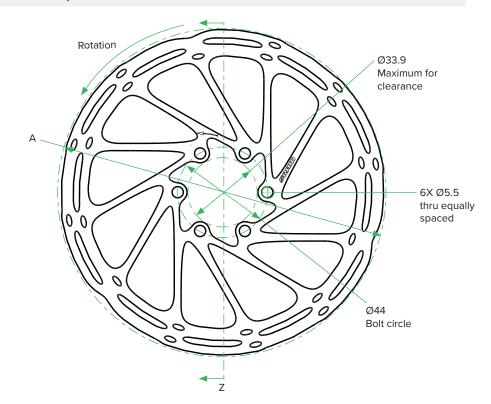


SRAM CenterLine/ SRAM Paceline

One-piece 6-Bolt Rotor Dimensions

Datas aire	Radiused Outer Diameter	Rotor Thickness	
Rotor size	A (mm)	B (mm)	
140 mm	140		
160 mm	160	1.85	
180 mm*	180		

^{*} CenterLine only. Paceline does not come in a 180 mm rotor.



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

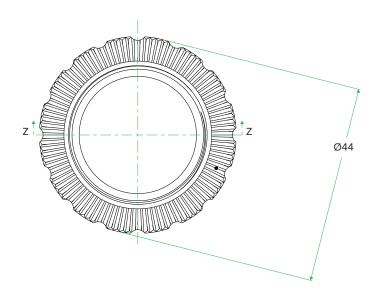
<u>∧</u>WARNING

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

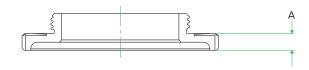
Lockring for Center Locking Rotor

Specifications

Part Number	Lockring Type Thickness	A (mm)	
11.2018.063.011 - ZIPP 11.2018.063.004 - SRAM	Regular	3.7	
11.2018.063.002 - ZIPP	Thin	2.1	



Section Z:Z

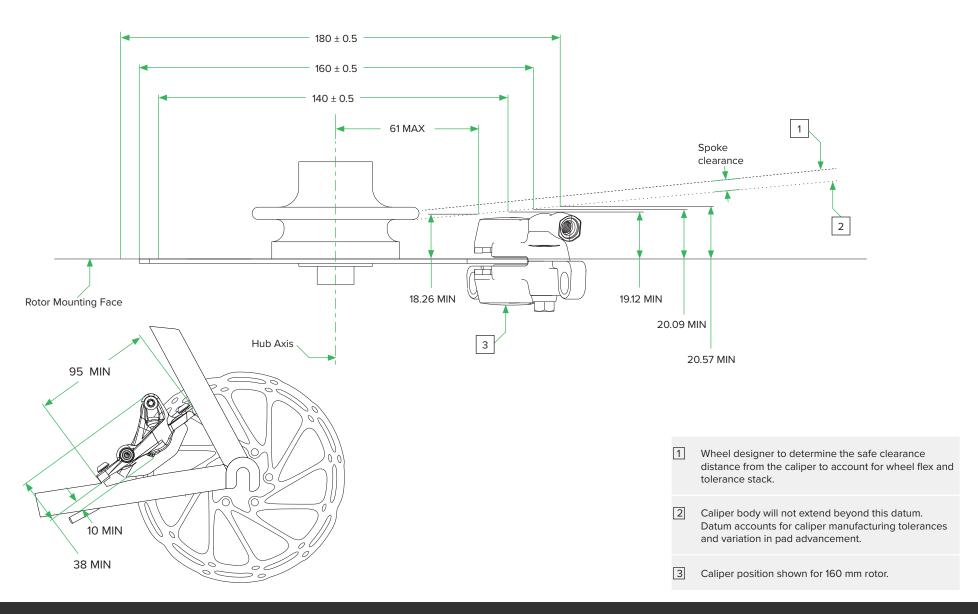


Note

- 1. SRAM/Zipp lockring torque is 40 N⁻ m (354 in-lb).
- 2. The Zipp lockring (thin) must be used with a 140 mm or 160 mm rotor.

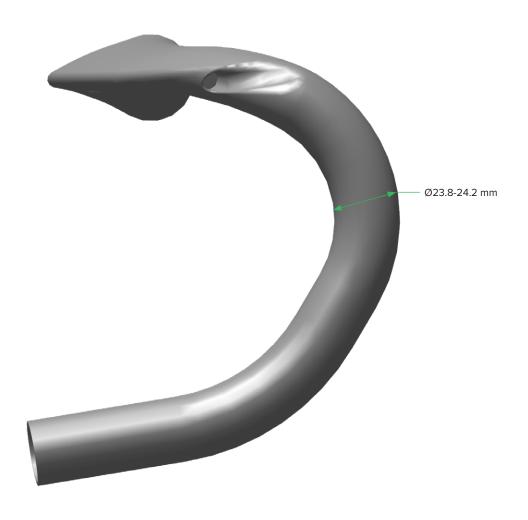
Spoke Clearance

Road Disc Brakes



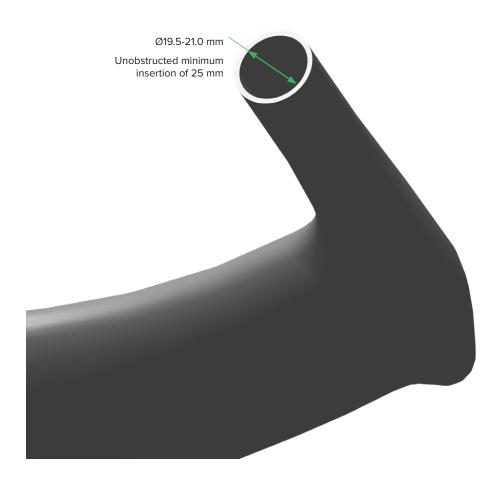
Dropbar Guidelines

All Road Shift-Brakes and Brake Levers



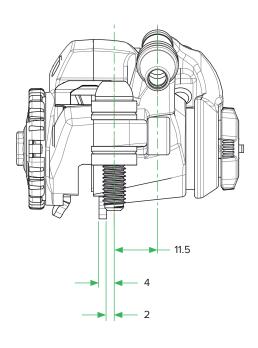
S-900 Aero HRD

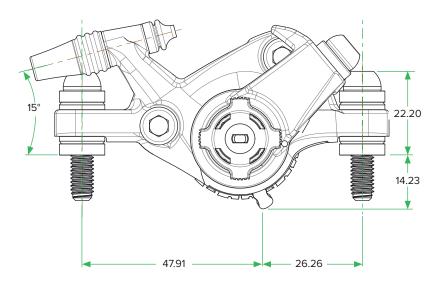
Hydraulic Aero Brake Lever Bar Guidelines



BB7/ BB5 Road

Mechanical Disc Brake Clearance



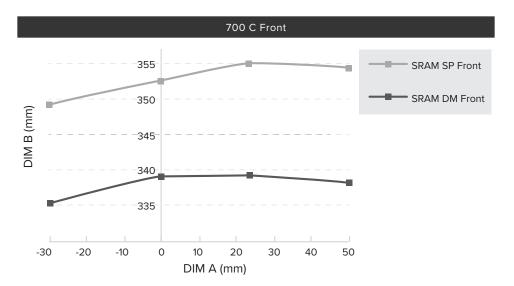


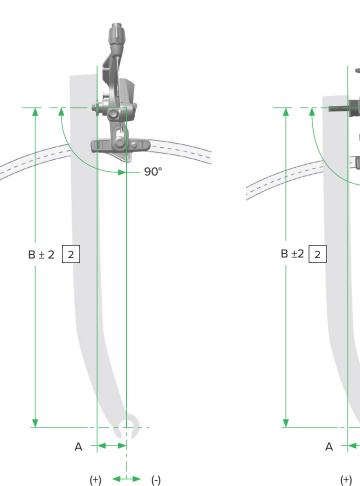
Front Rim Brake Caliper

Direct Mount and Single Pivot Design Dimensions

Brake Caliper Pivot Location						
700 C	А		-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.
- For 650c wheels, subtract 26 mm from the 700c "B" dimensions.
- 3 Mount only to the front side of the fork.





Single Pivot Front Rim Brake Caliper

90°

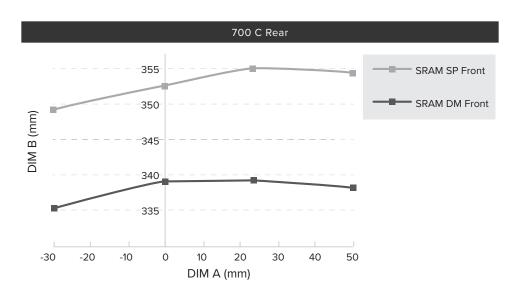
Direct Mount Front Rim Brake Caliper

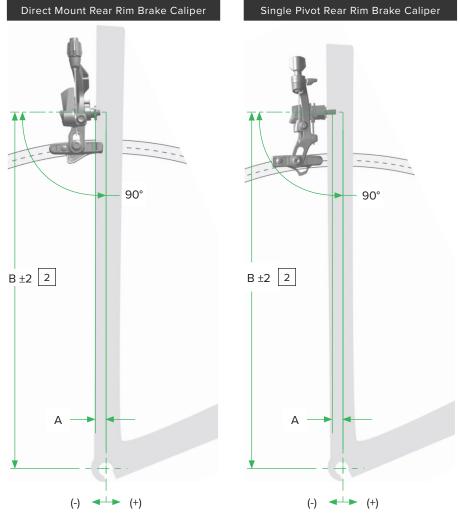
Rear Rim Brake Caliper

Direct Mount and Single Pivot Design Dimensions

Brake Caliper Pivot Location -30 Α 0 25 50 700 C SRAM DM Front 335.9 339 339.5 338 B±2 SRAM SP Front 349 353.5 354.5 355

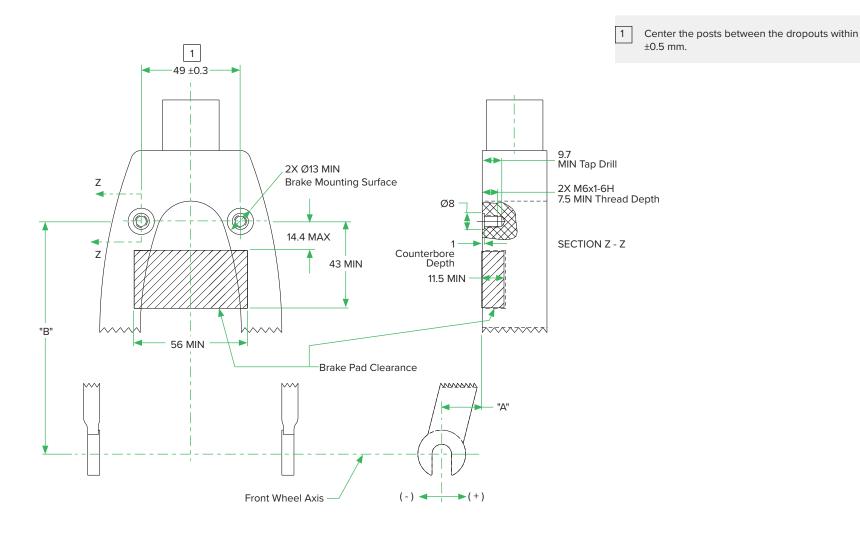
- 1 For increased tire clearance, make mounting features to the + side of the "B" dimension tolerance limit.
- 2 For 650c wheels, subtract 26 mm from the 700c "B" dimensions.
- 3 Mount only to the back side of the seatstay. Do not mount under bottom bracket or on the front side of the seatstay.





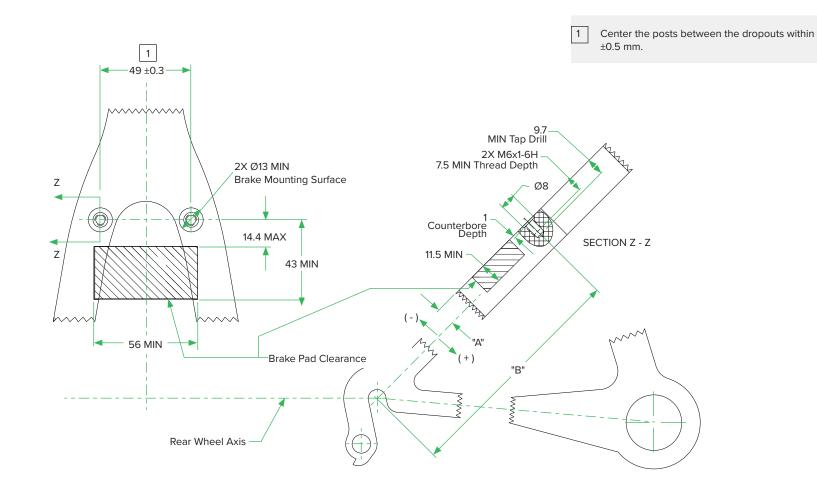
Front Direct Mount

Mounting Dimensions



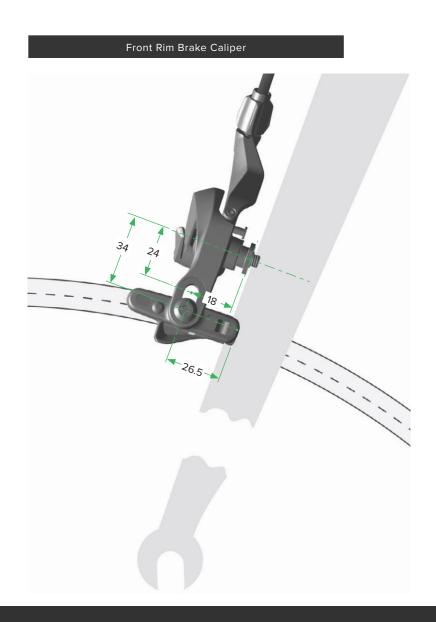
Rear Direct Mount

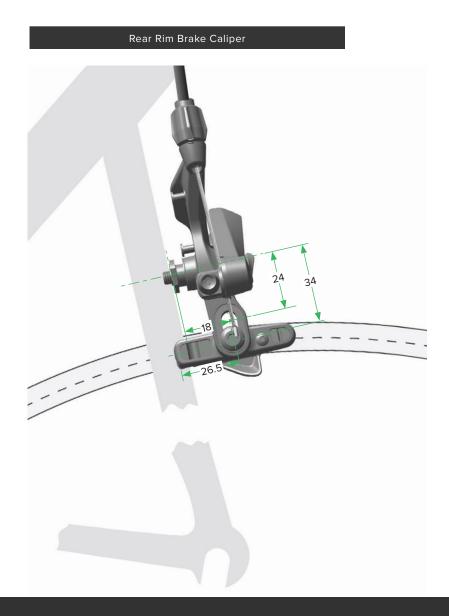
Mounting Dimensions



Direct Mount

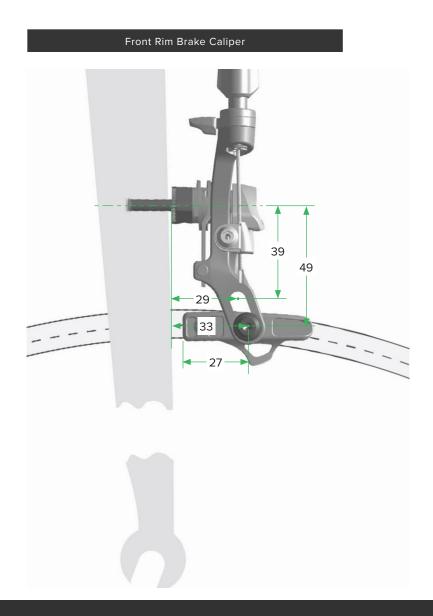
Rim Brake Caliper Design Dimensions

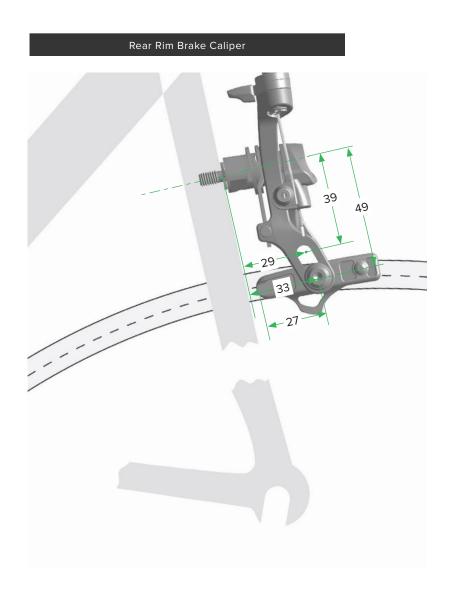




Single-Post Mount

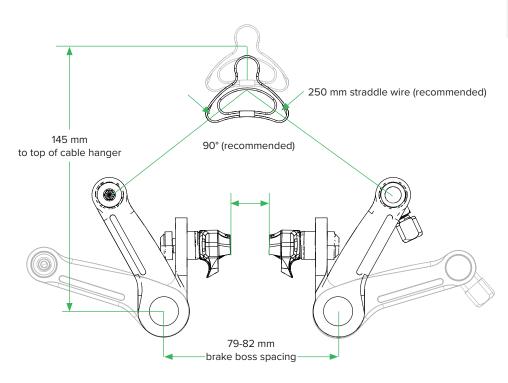
Rim Brake Caliper Design Dimensions





Shorty Ultimate

Dual Mounted Brake Caliper

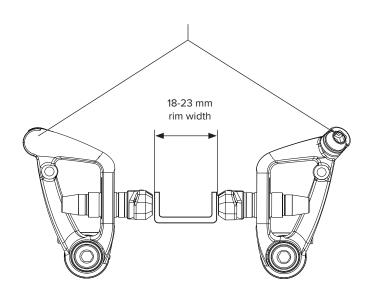


 For wheel rims wider than 23 mm, consult the spare parts catalog on www.sram.com/service for part numbers.

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)	С	D (mm)	H (mm)	h (mm)	W (mm)		
CCC Type S	63	100°		92.94		51.61	63.21	39.65
CCC Type A	73	95°		106.12		53.82	67.64	44.08
CCC Type B	82	87°	31.78	116.28	56.80	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

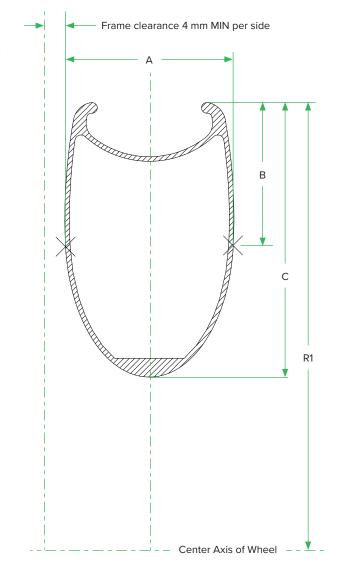


Wheels and Hubs

Zipp Wheels

Rim/Disc Design Parameters

	MAX Width	Internal Width	Depth at MAX Width	MAX Depth	Radius to Center Axis
	A (mm)	(mm)	B (mm)	C (mm)	R1 (mm)
30 Course Clincher Tubeless Disc-brake	25	21	5.45	20	246.6
30 Course Clincher Tubeless Rim-brake	25	21	10	26	316.6
202 Firecrest Carbon Tubeless Disc-brake	28.7	21	6.9	32	316.67
202 NSW Carbon Tubeless Disc-brake		21			
303 S Carbon Tubeless Disc-brake	27.32	23	3.52	45.15	317.165
303 Firecrest 650b Carbon Tubeless Disc-brake	29.88	21	21.19	45.5	297.95
303 Firecrest Carbon Tubeless Disc-brake	27.5	25	0	30	316.85
303 Firecrest Carbon Tubeless Rim-brake	26.58	21	13.05	45.41	317.13
303 NSW Carbon Tubeless Rim-brake		21			
303 Firecrest Carbon Tubular Disc-brake	28.05	n/a	19.31	45.6	316.86
303 Firecrest Carbon Tubular Rim-brake	20.03	n/a			310.00
353 NSW Carbon Tubeless Disc-brake	30	25	1.20 - 5.50**	45.2	317.1
404 Firecrest Carbon Tubeless Disc-brake	27.68	23	0	58	316.975
404 Firecrest Carbon Tubeless Rim-brake		19	22.05	58.71	316.4
404 NSW Carbon Tubeless Disc-brake	27.74	19	22.05	58.71	316.4
404 NSW Carbon Tubeless Rim-brake		19	22.05	58.71	316.4
454 NSW Carbon Tubeless Disc-brake TSS	27.5	23	1.20 - 14.50**	58	316.85

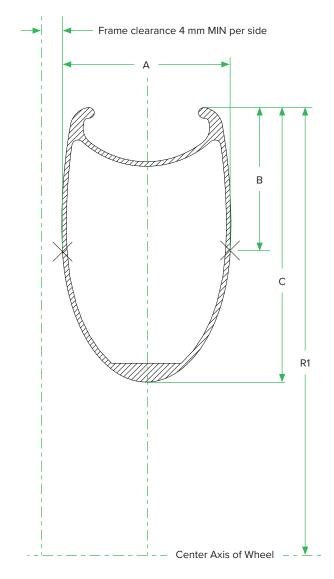


^{**} Endpoints points of vertical line at max width.

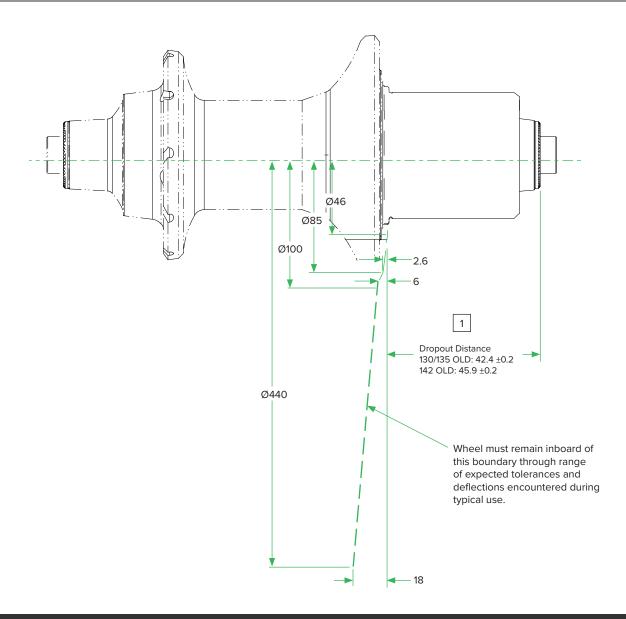
Zipp Wheels

Rim/Disc Design Parameters Continued

	MAX Width	Internal Width	Depth at MAX Width	MAX Depth	Radius to Center Axis
	A (mm)	(mm)	B (mm)	C (mm)	R1 (mm)
454 NSW Carbon Tubeless Disc-brake	26.51	19	22.17	58.23	316.145
454 NSW Carbon Tubeless Rim-brake	26.51	19	22.17	58.23	310.145
454 NSW Carbon Tubular Disc-brake	26.52	n/a	22.25	57.92	316.23
454 NSW Carbon Tubular Rim-brake	26.52	n/a	22.25	57.92	310.23
808 Firecrest Carbon Tubeless Disc-brake		19			
808 Firecrest Carbon Tubeless Rim-brake	28.024	19	35.54	82.5	316.6
808 NSW Carbon Tubeless Disc-brake		19			
808 NSW Carbon Tubeless Rim-brake		19			
858 NSW Carbon Tubeless Disc-brake	23.66	18	7.3	83.66	316.19
858 NSW Carbon Tubeless Rim-brake	23.00	18	7.5	83.00	310.19
101 EXPLR Tubeless DB 650	34.3	27	2.65	16 47	298.15
101 EXPLR Tubeless DB 700	34.3	27	2.65	16.47	317.08
Super-9 Carbon Tubular Disc-brake		n/a			
Super-9 Carbon Tubular Rim-brake	27.5	n/a	2.46		317.36
Super-9 Tubular Track		n/a		21/2	
Super-9 Carbon Tubeless Rim-brake		18		N/A	
Super-9 Carbon Tubeless Disc-brake	27.48	18	7.3		316.23
Super-9 Carbon Clincher Track		16			



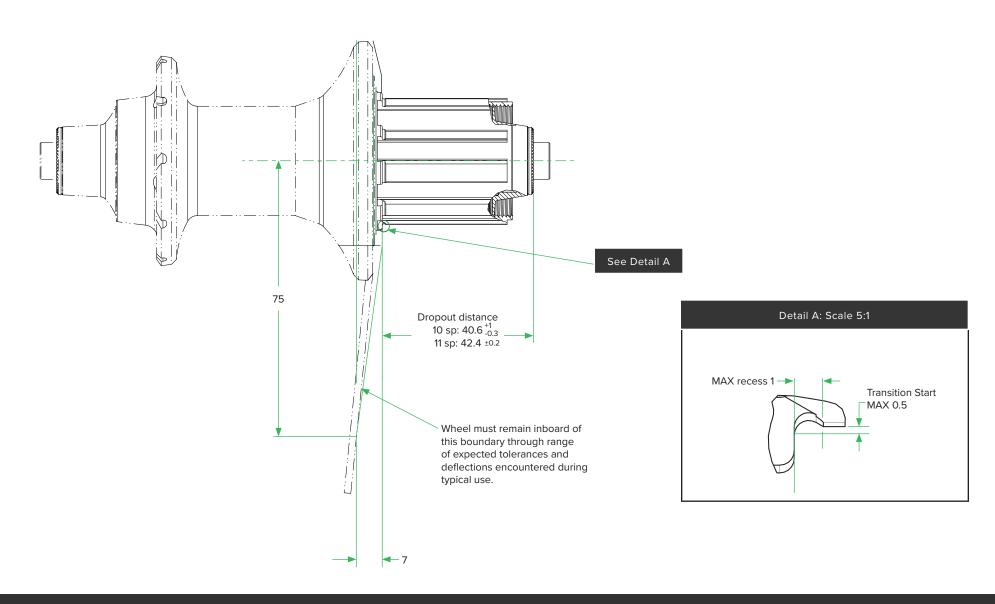
Rear Derailleur Wheel Spoke Clearance



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

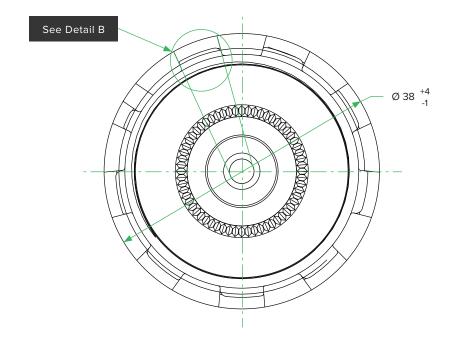
Driver and Wheel Standard

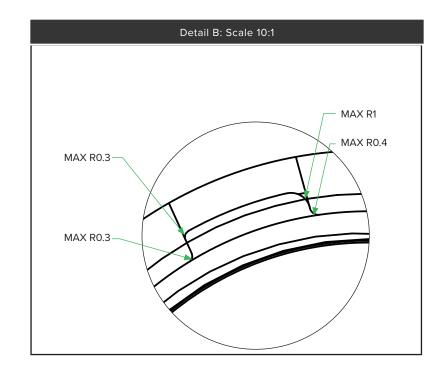
10 and 11 speed



Driver and Wheel Standard

10 and 11 speed Continued

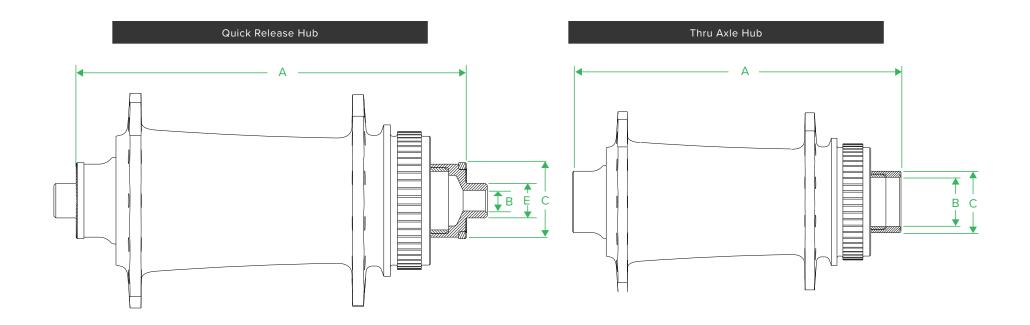




Zipp Hubs with Center Locking Disc Brake Mount

Front Hub Specifications

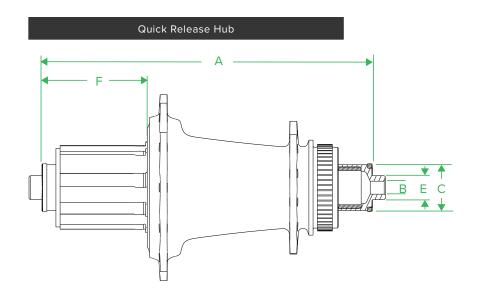
	A (mm)	B (mm)	C (mm)	E (mm)	
9x10 Quick Release Hub		Ø 5.3 ± 0.1	Ø 19.5 ± 0.1	Ø 8.85 ± 0.05	
12x100 Thru Axle Hub	100.0 ± 0.5	Ø 12.0 + 0.1	Ø 10.7 ± 0.1	N1/A	
15x100 Thru Axle Hub		Ø 15.0 + 0.1	Ø 18.7 ± 0.1	N/A	

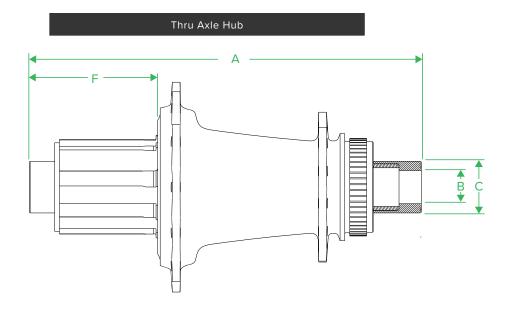


Zipp Hubs with Center Locking Disc Brake Mount

Rear Hub Specifications

	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	
10x135 Quick Release Hub	425.0 + 0.5	Ø 5.3 ± 0.1	Ø 19.5 ± 0.1	Ø 9.8 ± 0.1	42.4 + 0.2	
12x135 Thru Axle Hub	135.0 ± 0.5	Ø 12.0 ± 0.1	Ø 18.7 + 0.1	NI/A	42.4 ± 0.2	
12x142 Thru Axle Hub	142.0 ± 0.5	Ø 12.0 + 0.1	Ø 18.7 ± 0.1	N/A	45.9 ± 0.2	

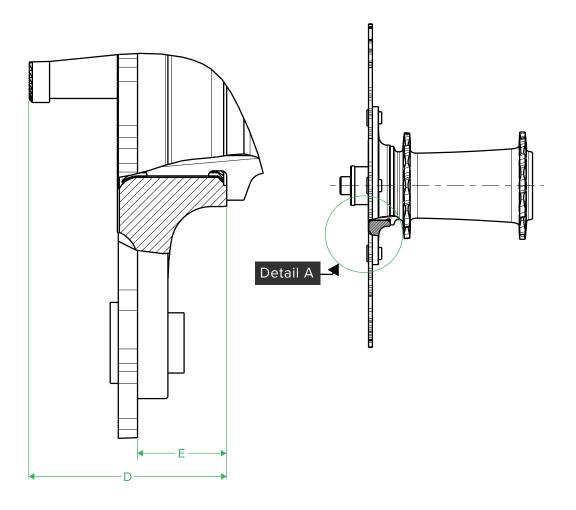




Zipp Hubs with Center Locking Disc Brake Mount

Front and Rear Hub Distance to Rotor

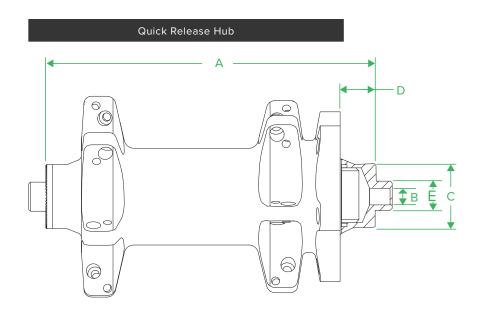
	D (mm)		E (mm)	
	CLX	CLX-R	CLX	CLX-R
9x10 Quick Release Hub				
12x100 Thru Axle Hub	19	.5		
15x100 Thru Axle Hub				
10x135 Quick Release Hub	24.25 27.25		8.5	9.0
12x135 Thru Axle Hub				
12x142 Thru Axle Hub				

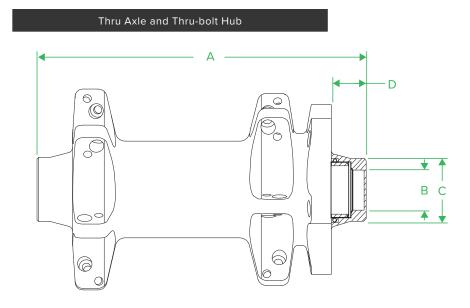


Zipp Hubs with ISO 6 Bolt Disc Brake Mount

Front Hub Specifications

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
9x100 Quick Release Hub	100.0 ± 0.5	Ø 5.3 ± 0.1	Ø 19.5 ± 0.1		Ø 8.85 ± 0.05
12x100 Thru Axle Hub		Ø 12.0 + 0.1	Ø 19.0 ± 0.1	405+02	N/A
15x100 Thru Axle Hub		Ø 15.0 + 0.1	Ø 19.5 ± 0.1	10.5 ± 0.3	
9x100 Thru-bolt Hub		Ø 9.0 + 0.1			

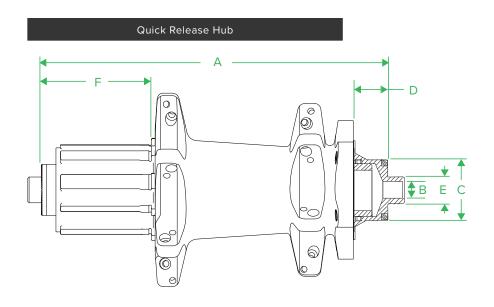


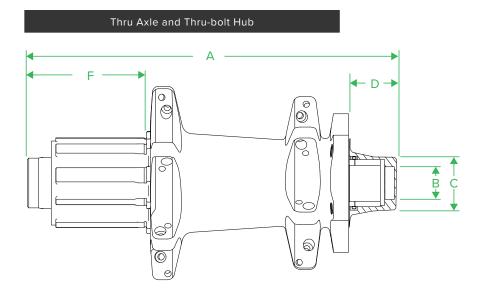


Zipp Hubs with ISO 6 Bolt Disc Brake Mount

Rear Hub Specifications

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
10x135 Quick Release Hub	4257.02/40	Ø 5.3 ± 0.1	Ø 19.5 ± 0.1	45.5.4.0.2	Ø 9.85 ± 0.05	42.4 ± 0.2
12x135 Thru Axle Hub	135.7 +0.3/-1.0	Ø 42.0 ± 04	Ø 10.0 ± 0.1	15.5 ± 0.2	N/A	
12x142 Thru Axle Hub	142.7 +0.3/-1.0	Ø 12.0 + 0.1	Ø 19.0 ± 0.1	19.0 ± 0.2		45.9 ± 0.2
10x135 Thru-bolt Hub	135.7 +0.3/-1.0	Ø 10.0 + 0.1	Ø 19.5 ± 0.1	15.5 ± 0.2		42.4 ± 0.2

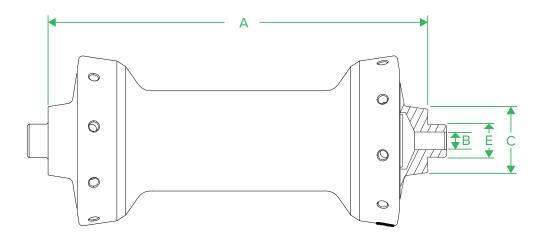




Zipp Rim Brake Hubs

Front Hub Specifications

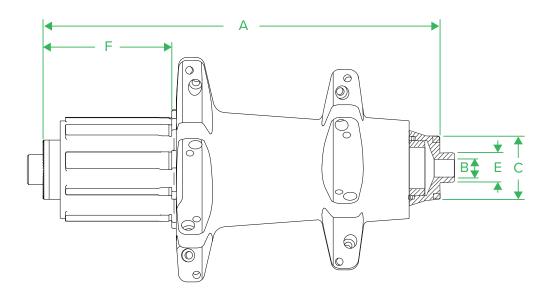
9x100 Quick Release Hub	A (mm)	B (mm)	C (mm)	E (mm)
	100 ± 0.5	Ø 5.3 ± 0.1	Ø 18.3 MAX	Ø 8.85 ± 0.05



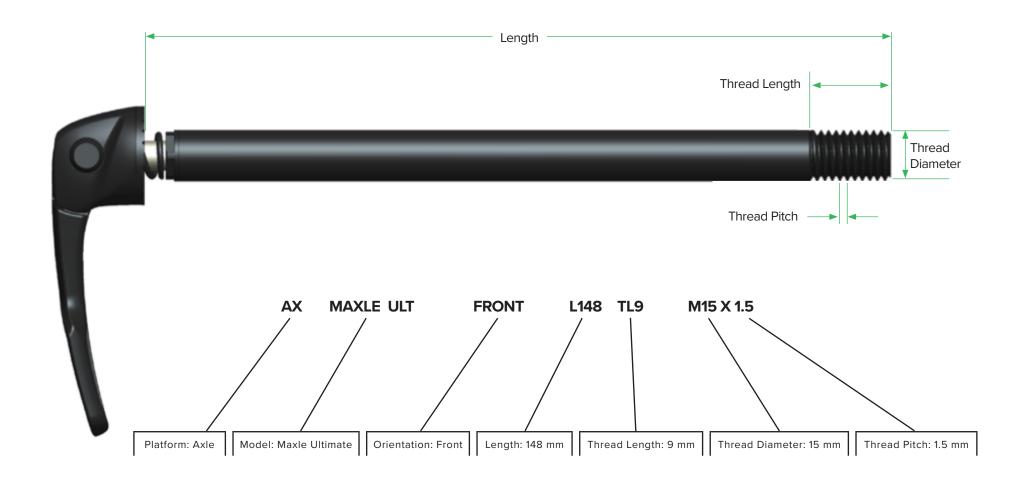
Zipp Rim Brake Hubs

Rear Hub Specifications

10x130 Quick	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)
Release Hub	130.0 ± 0.5	Ø 5.3 ± 0.1	Ø 19.5 ± 0.1	Ø 9.8 ± 0.1	42.4 ± 0.2



Maxle Description Decoder

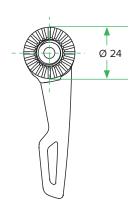


Maxle Ultimate

Frame / Fork Clearance

Lever in Closed Position



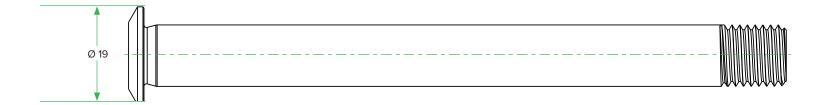


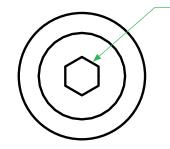
Lever in Open Position



- 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





SEE TABLE

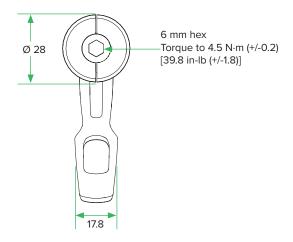
Description	Hex Size	Torque Value
Maxle 12	5	9-13.5 N•m
Maxle 15	6	9-13.5 N•m

- 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

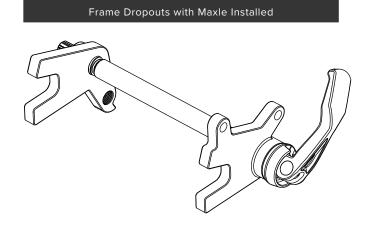
Lever in Closed Position Ø25 64.5 Lever in Open Position



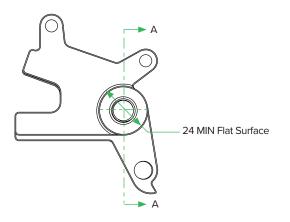
- 1 Drawing is not to scale.
- 2 Customer is responsible for ensuring hub, frame, and axle compatibility.
- 3 The frame manufacturer is responsible for ensuring the frame and/or fork assemblies using Maxles are compliant with existing safety standards.

Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth

Rear Frame Specification





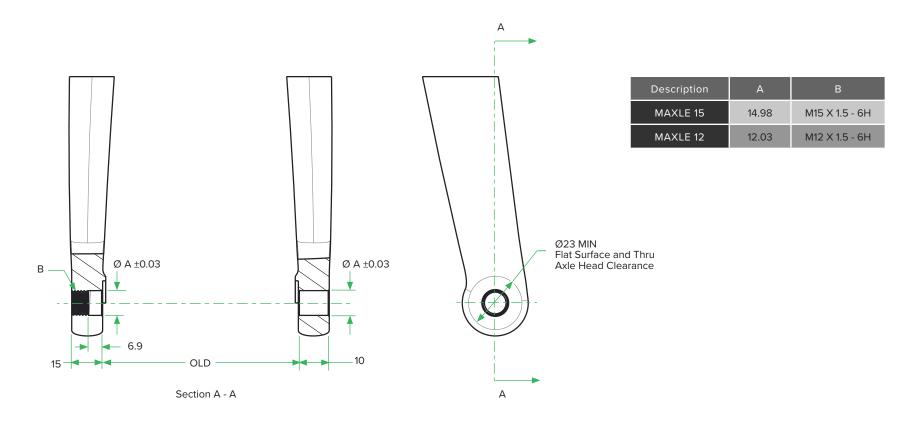


Part Number	Description
00.4318.009.001	AX MAXLE ULT REAR L174 TL20 M12X1.75
00.4318.009.013	AX MAXLE ULT REAR L180 TL20 M12X1.75
00.4318.017.004	AX MAXLE STLTH REAR L174 TL20 M12X1.75
00.4318.017.005	AX MAXLE STLTH REAR L180 TL20 M12X1.75

- 1 Drawing is not to scale.
- 2 Dimensions apply to the standard Maxle sizes in the table.
- 3 Frame designers may request a custom Maxle for their specific frame dropouts. However, frame designers are responsible for ensuring compatibility between their frame and custom Maxle.

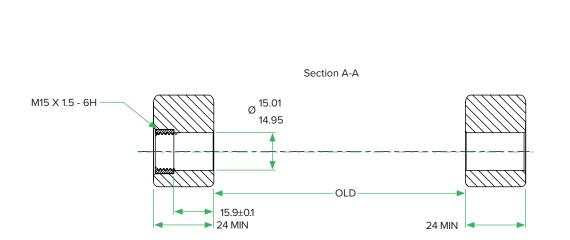
Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth

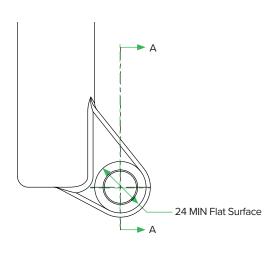
Fork Specification



Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth

Fork Specification





Warranty and Trademark

Read the full warranty policy for your components at www.sram.com/warranty.

For information about trademarks used in this manual, visit www.sram.com/website-terms-of-use.



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