

SRAM

2020

Road Components

SRAM
RED 

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APEX 

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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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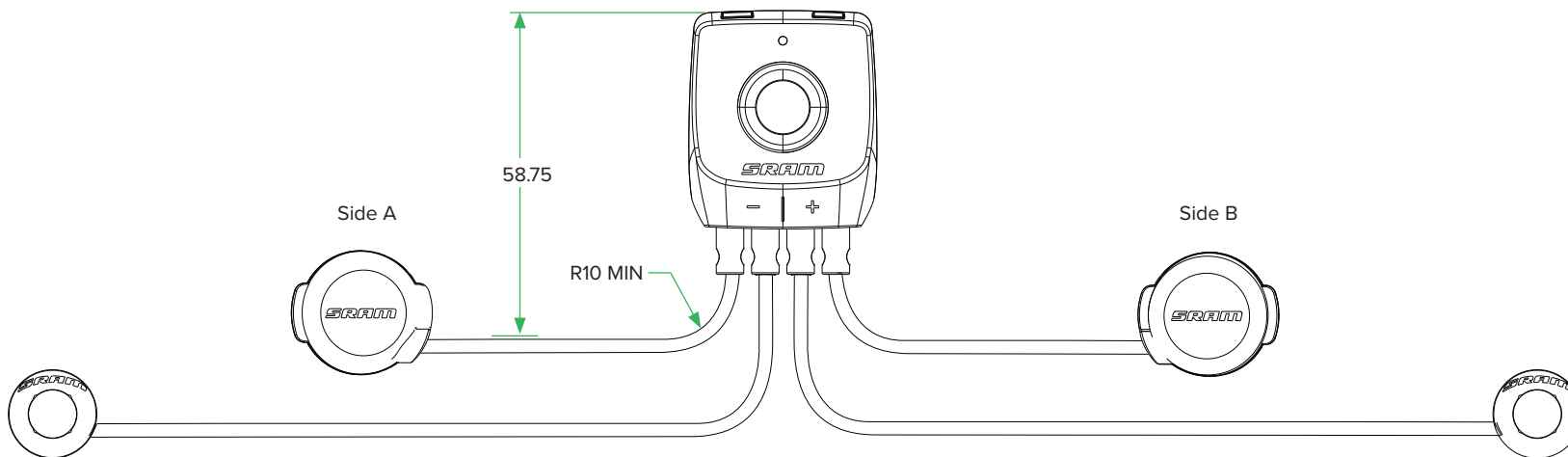
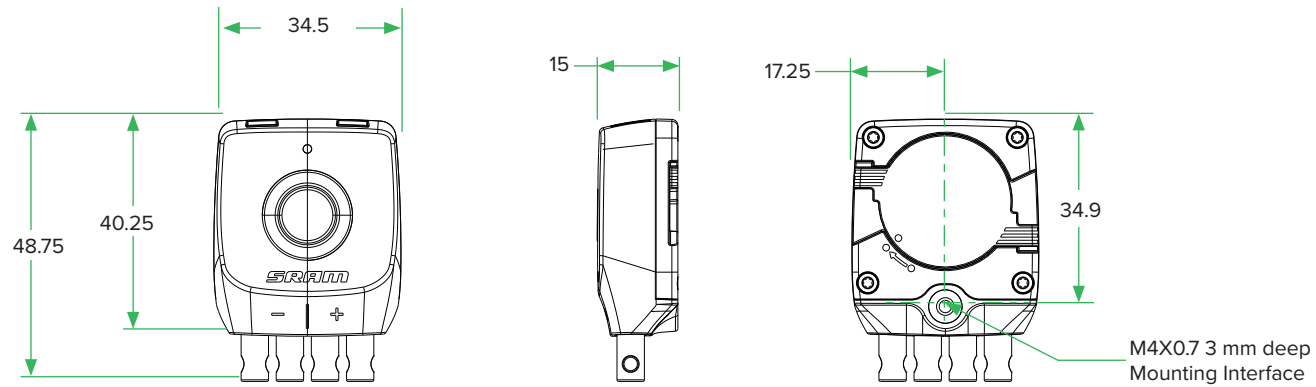
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Electronic Shifters

BlipBox

Dimensions without Elastic Band

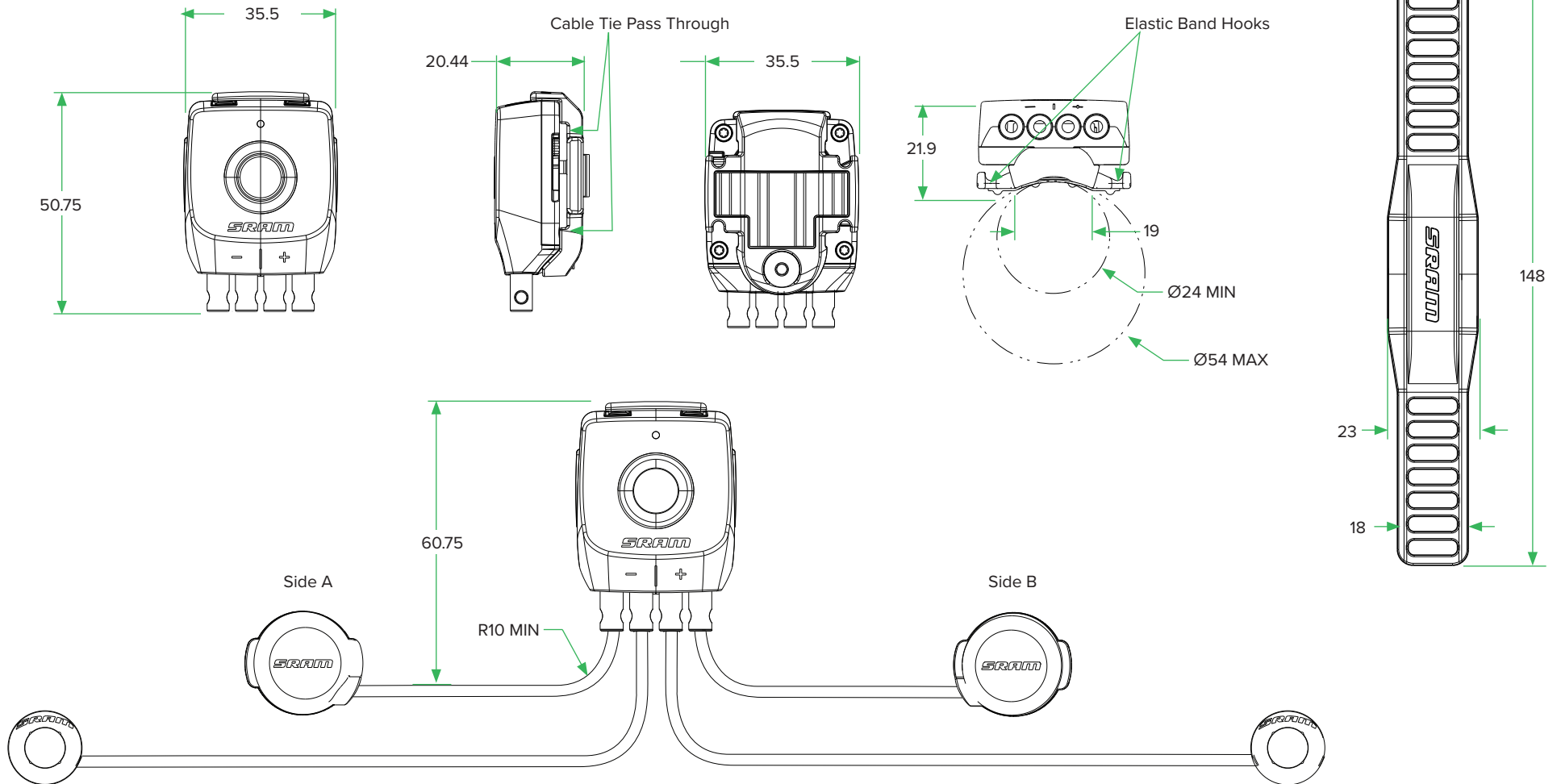
Custom Mounting without the Elastic Band Mounting Adapter



BlipBox

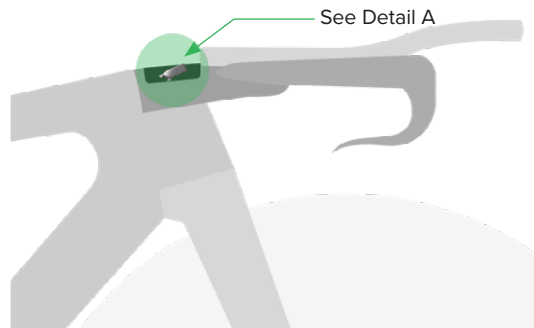
Dimensions with Elastic Band

Elastic Band Mounting Adapter for Mounting to Cylindrical or Flat Surfaces



BlipBox

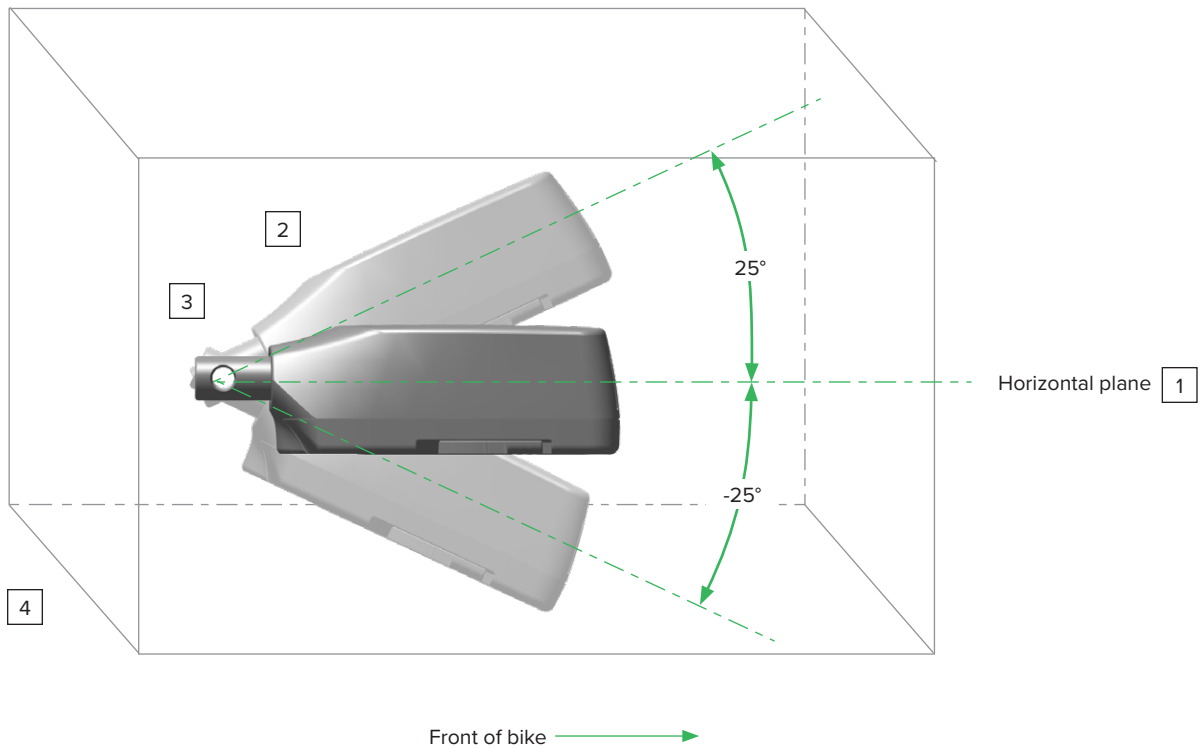
Enclosure Guidelines



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.

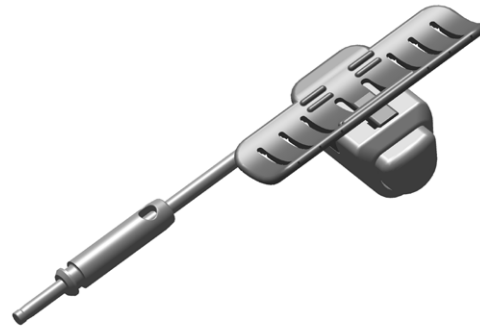
Detail A: Enclosure Guidelines and Mounting Angle



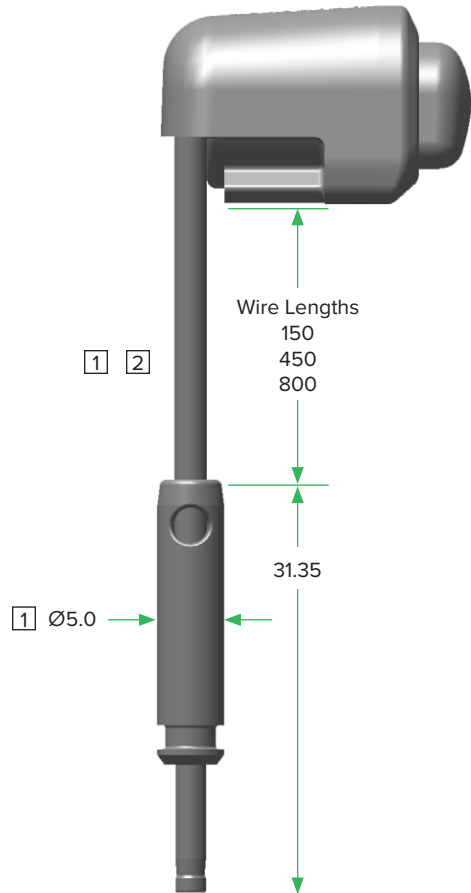
MultiClics

Remote Shift Buttons

MultiClics with Wing 3



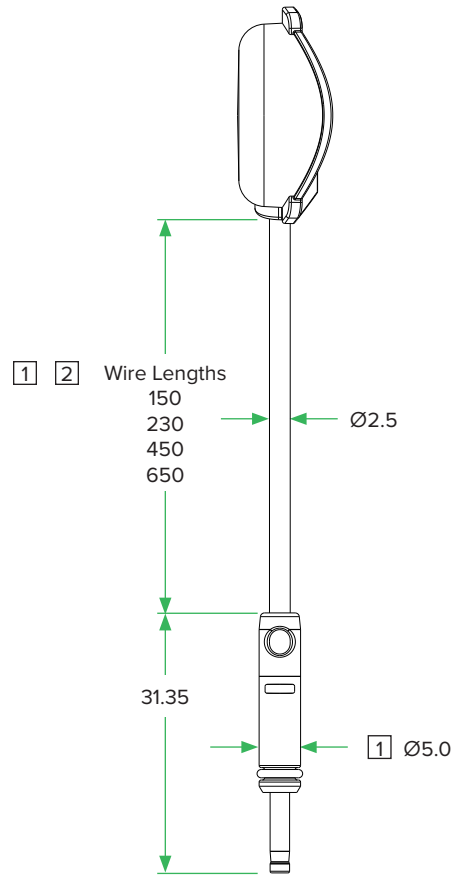
MultiClics with ClampClic for 24 mm Basebar 4



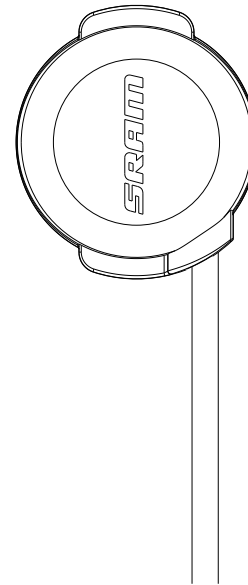
- 1 Consider the connector diameter and wire length when routing wires internally.
- 2 Choose the wire lengths based on application and desired location of the MultiClics.
- 3 Compatible with road drop bar or base bar.
- 4 Compatible with SRAM DB S-900 Aero HRD. Fits a base bar with an outer diameter of 24 mm.

Blips

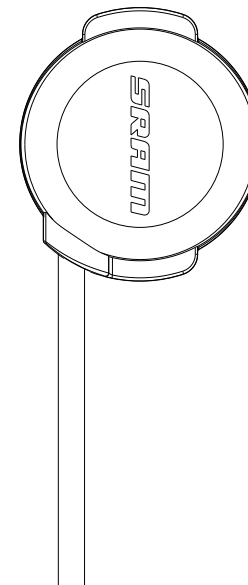
Remote Shift Buttons and Connector Dimensions



Left Shift Button



Right Shift Button

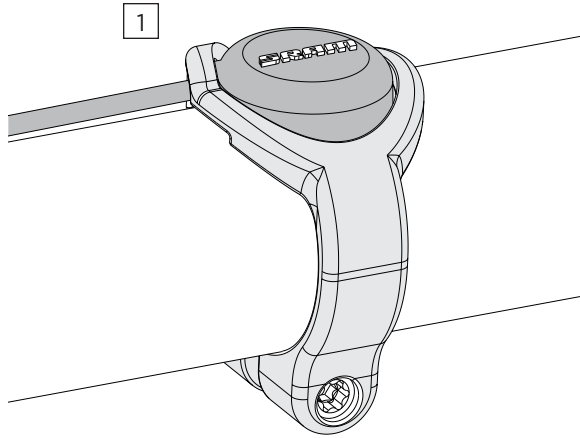


- 1 Consider the connector diameter and wire length when routing wires internally.
- 2 Choose the wire lengths based on application and desired location of the Blips.

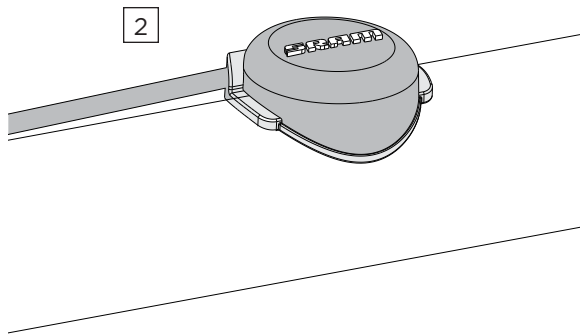
BlipClamp and BlipGrip

Remote Shifter Mounting

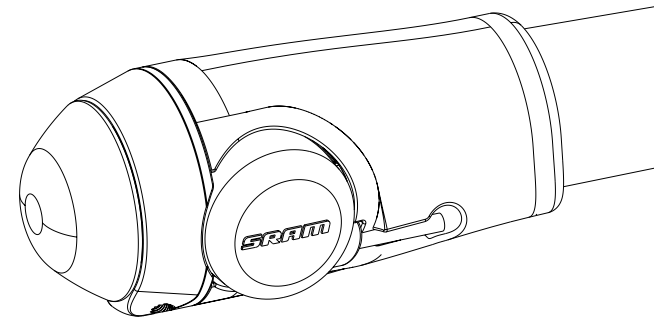
31.8 mm Bar



22.2-35 mm Bar



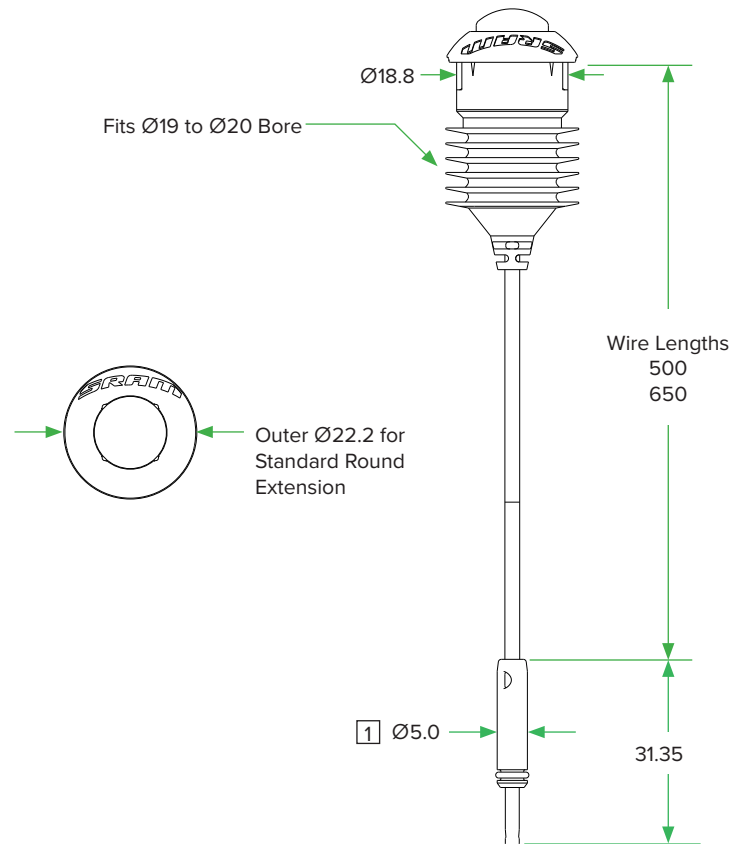
22.2mm TT Extensions



- 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.

Clics

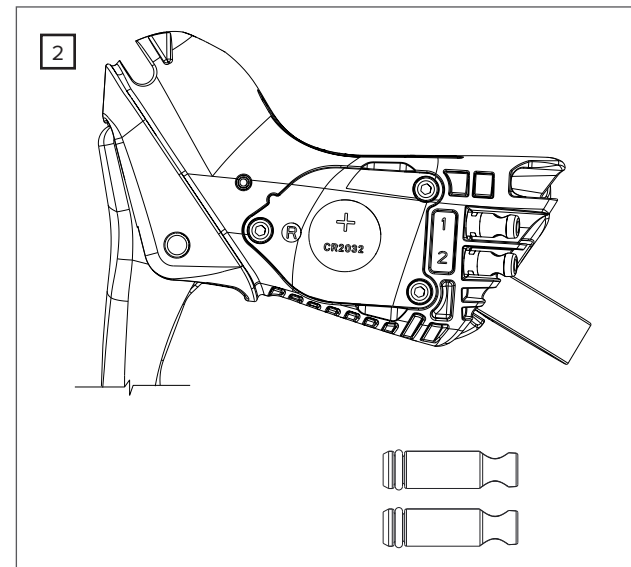
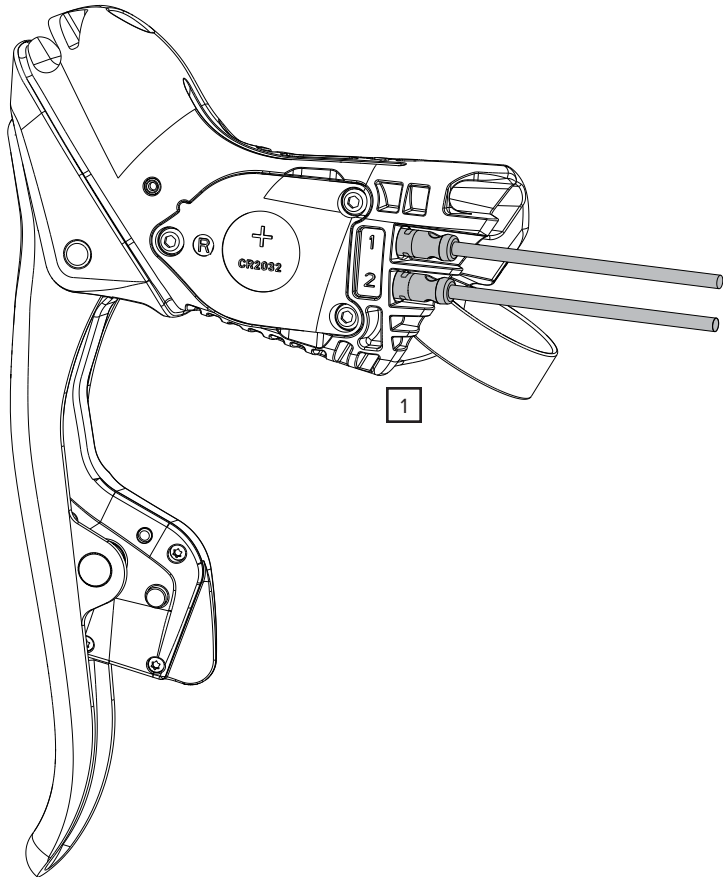
Extension Shift Buttons



- 1 Consider the connector diameter and wire length when routing wires internally.
- 2 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

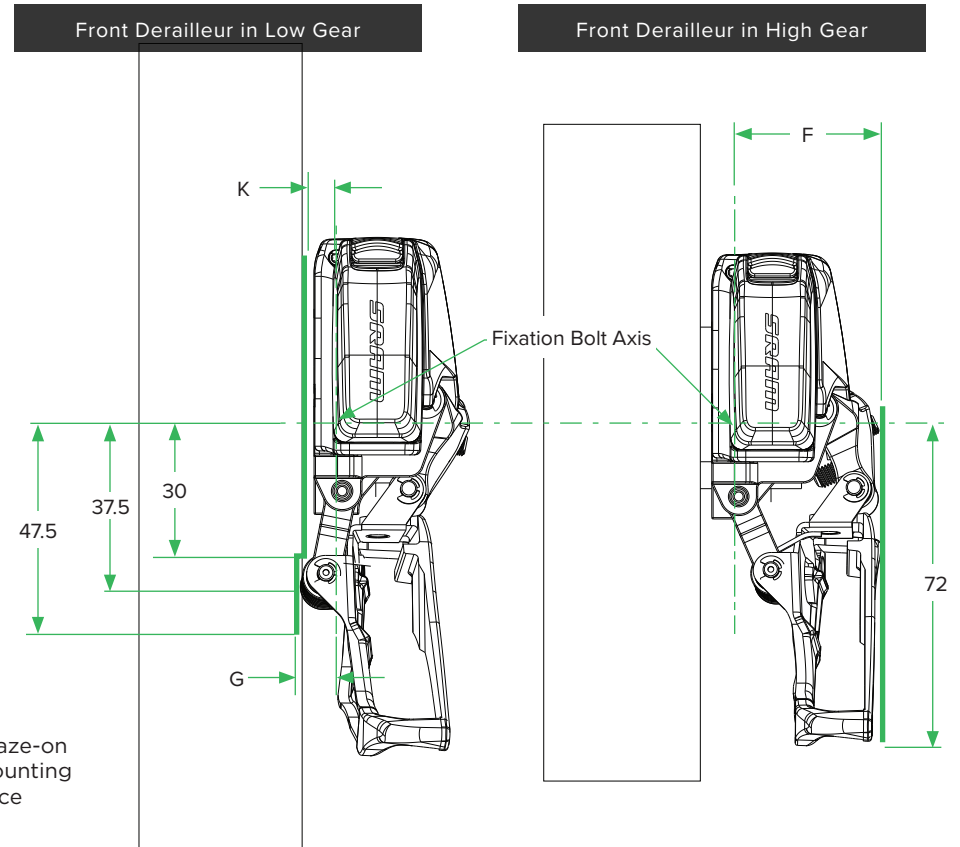
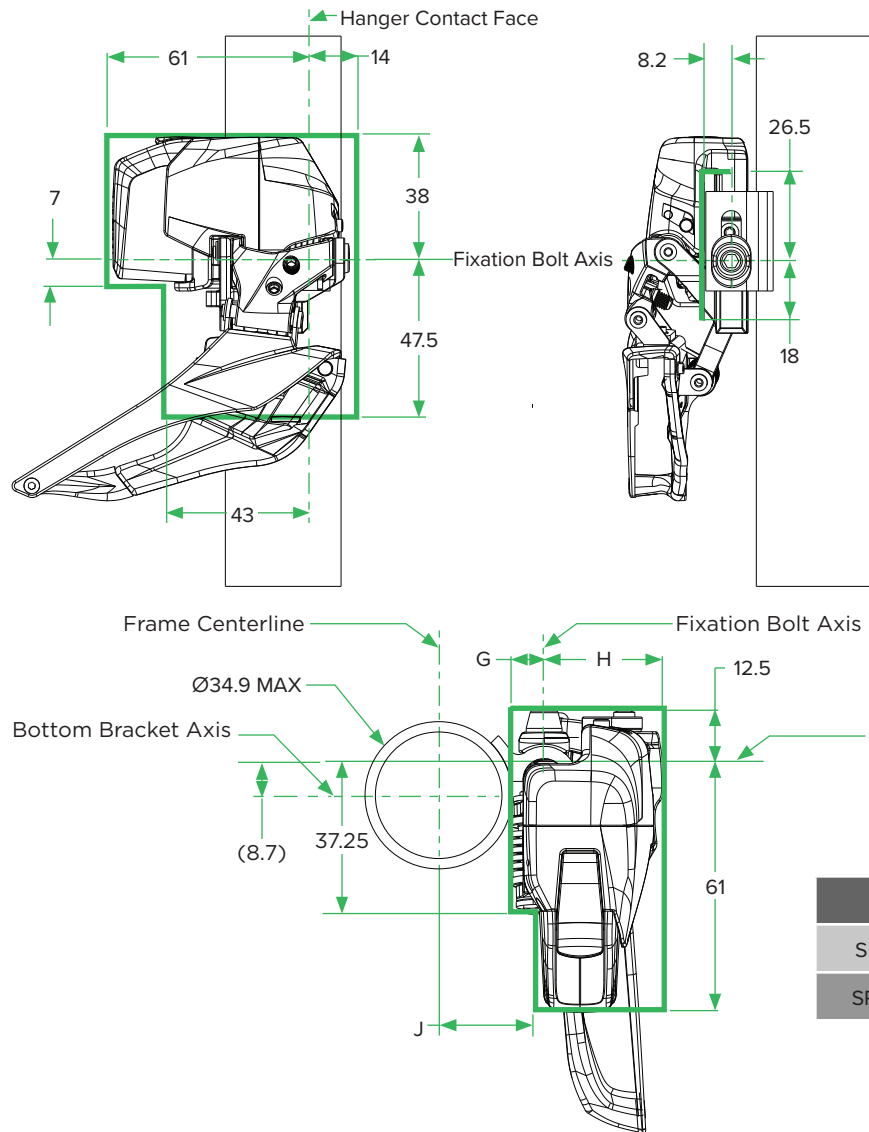


- 1 The left and right shifter brake each provide additional ports for auxiliary remote shifter buttons. SRAM Red eTap AXS has two ports, and SRAM Force eTap AXS has one port.
- 2 Use plugs when remote shifters are not in use.
- 3 Provide a small amount of slack in the wire for shifter brake repositioning.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

Front Derailleurs

Front Derailleur Clearance

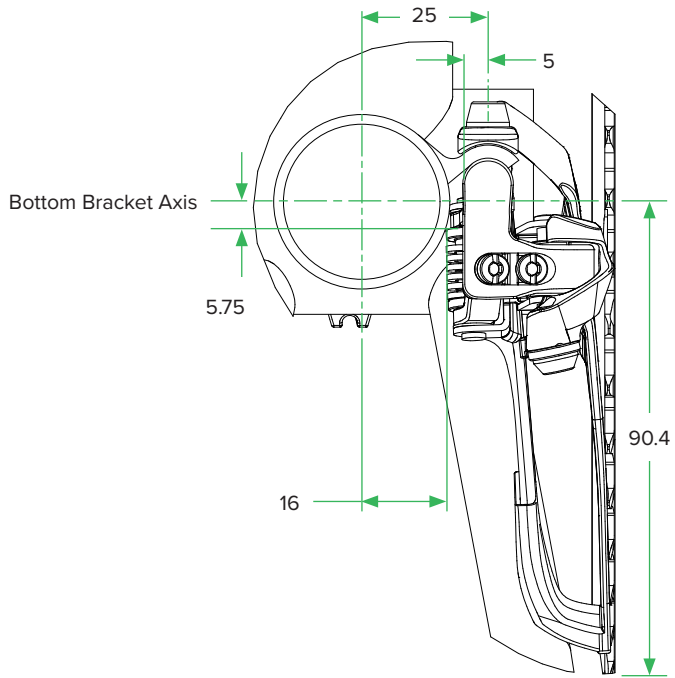
SRAM 12 Speed



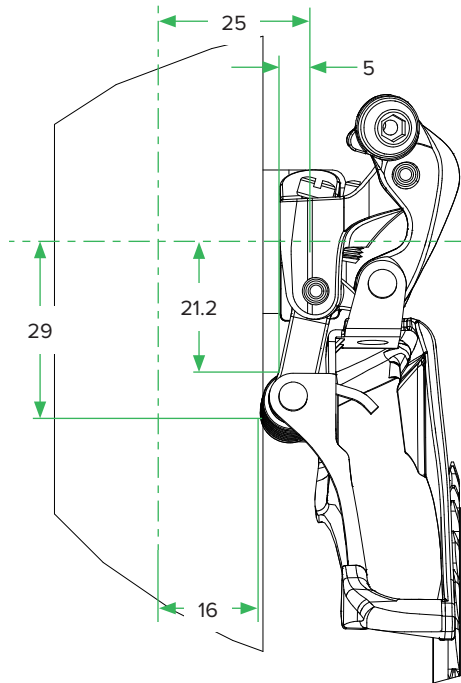
| FD Type | F | G | H | J | K |
|---------------------|------|-----|------|------|-----|
| SRAM RED/Force AXS | 33 | 9.1 | 29 | 23.5 | 5.5 |
| SRAM Force AXS Wide | 35.5 | 6.6 | 31.5 | 26 | 5 |

Front Derailleur Clearance

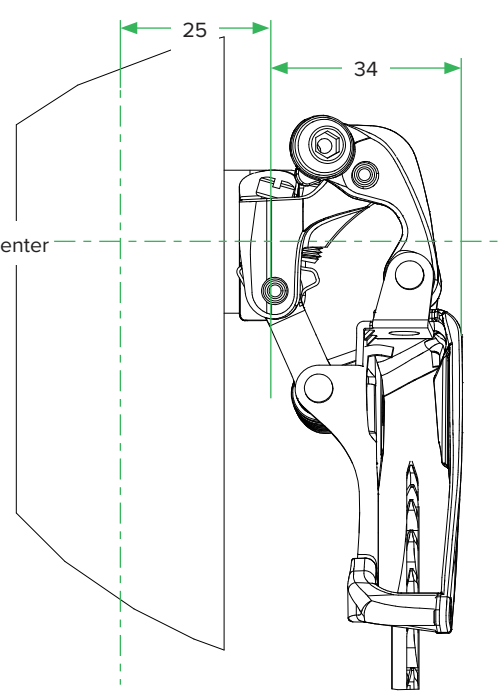
SRAM 11 Speed



Front Derailleur in Low Gear

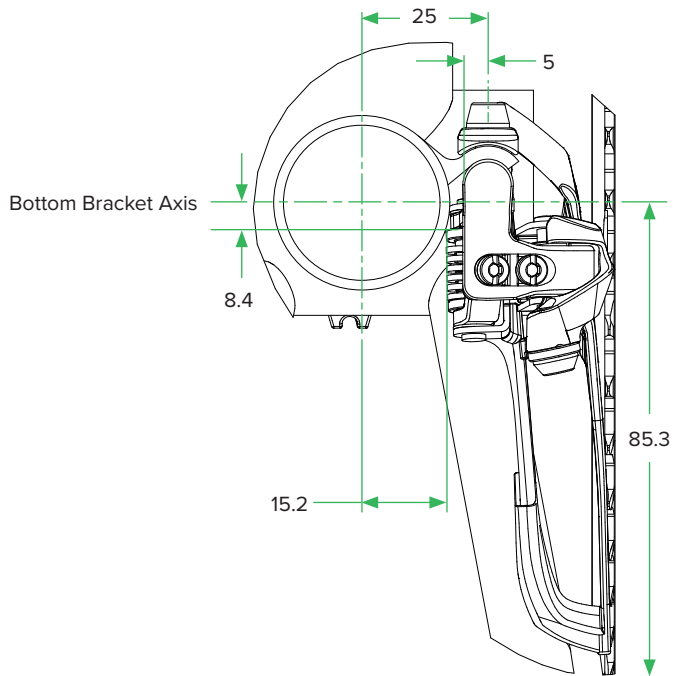


Front Derailleur in High Gear

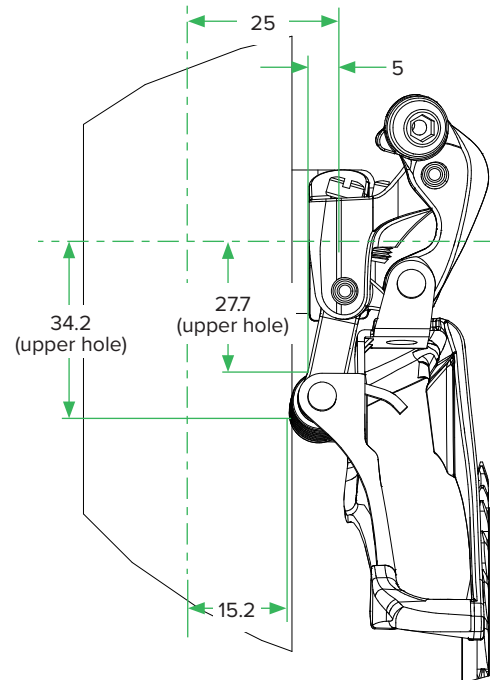


Front Derailleur Clearance

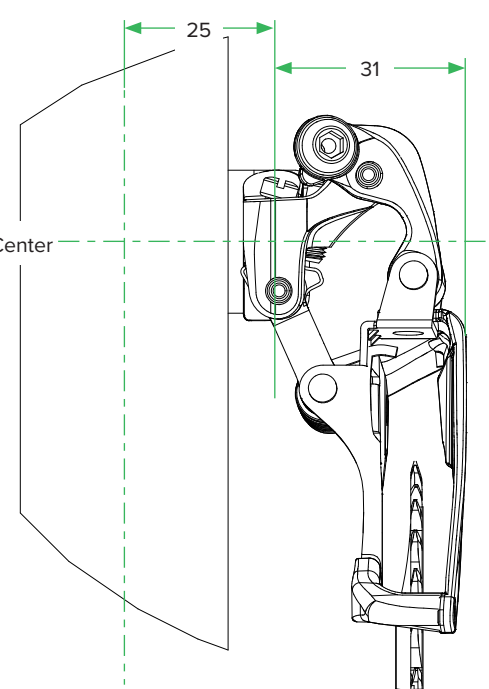
SRAM 10 Speed



Front Derailleur in Low Gear



Front Derailleur in High Gear

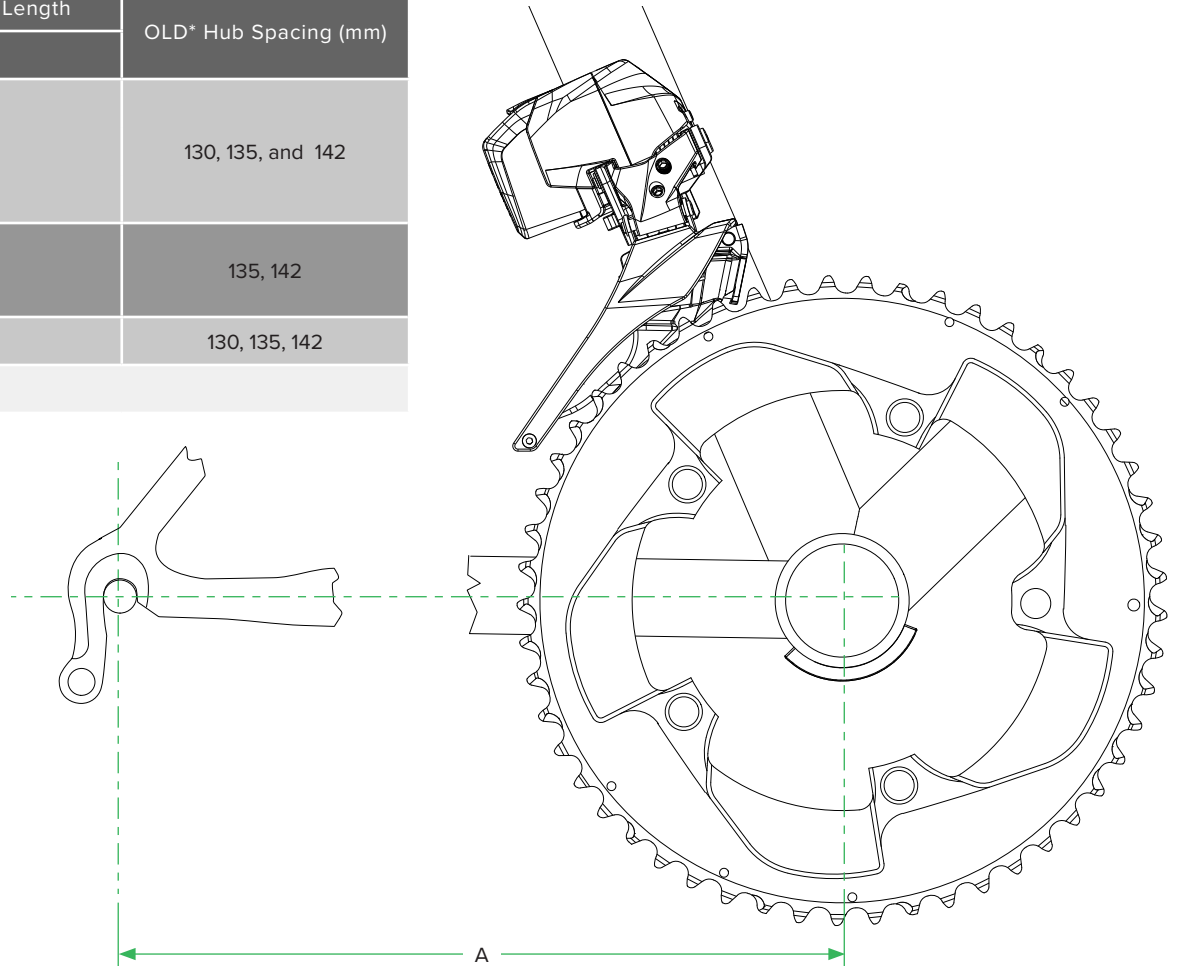


Frame Chainstay Information

SRAM 12 Speed

| | Chainline | Chaining | Minimum Chainstay Length | OLD* Hub Spacing (mm) |
|------|-----------|----------------|--------------------------|-----------------------|
| | | | A (mm) | |
| 2x | Standard | 50-37 | 405 | 130, 135, and 142 |
| | | 48-35 | | |
| | | 46-33 | | |
| | | 43-30 | 415 | 135, 142 |
| Wide | 43-30 | | | |
| 1x | All | All Ring Sizes | 395 | 130, 135, 142 |

* Over Locknut Dimensions

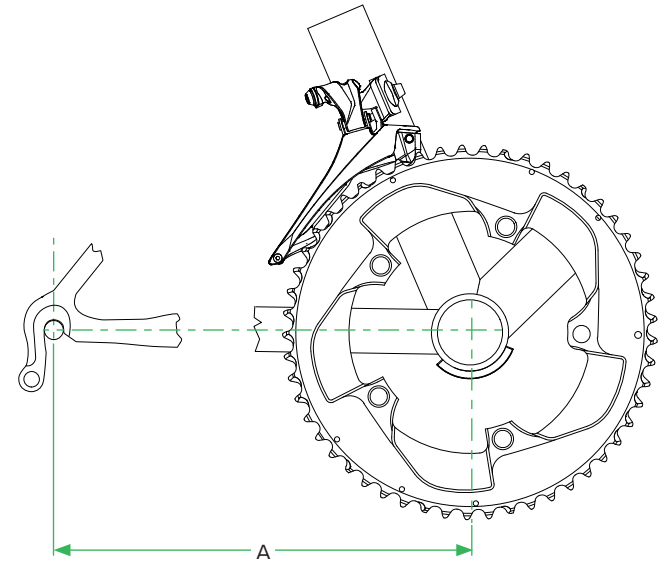


Frame Chainstay Information

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 | 405 | 430 |
| | 53/39 | | |
| | 52/36 | | 410 |
| | 50/34 | | 405 |
| | 46/36 | | 410 |
| | 46/34 | | 405 |
| 2x10 | 55/42 | 395 | 430 |
| | 54/42 | | |
| | 53/39 | 405 | |
| | 52/36 | | |
| | 52/38 | | |
| | 50/34 | | |
| | 46/36 | | |

*Over Locknut Dimensions



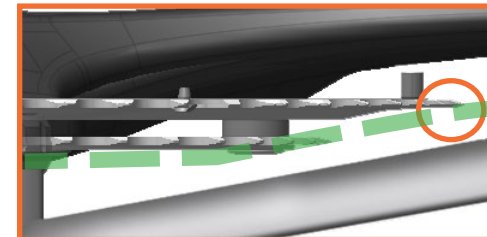
Potential problems with not following the minimum chainstay length

⚠ 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.

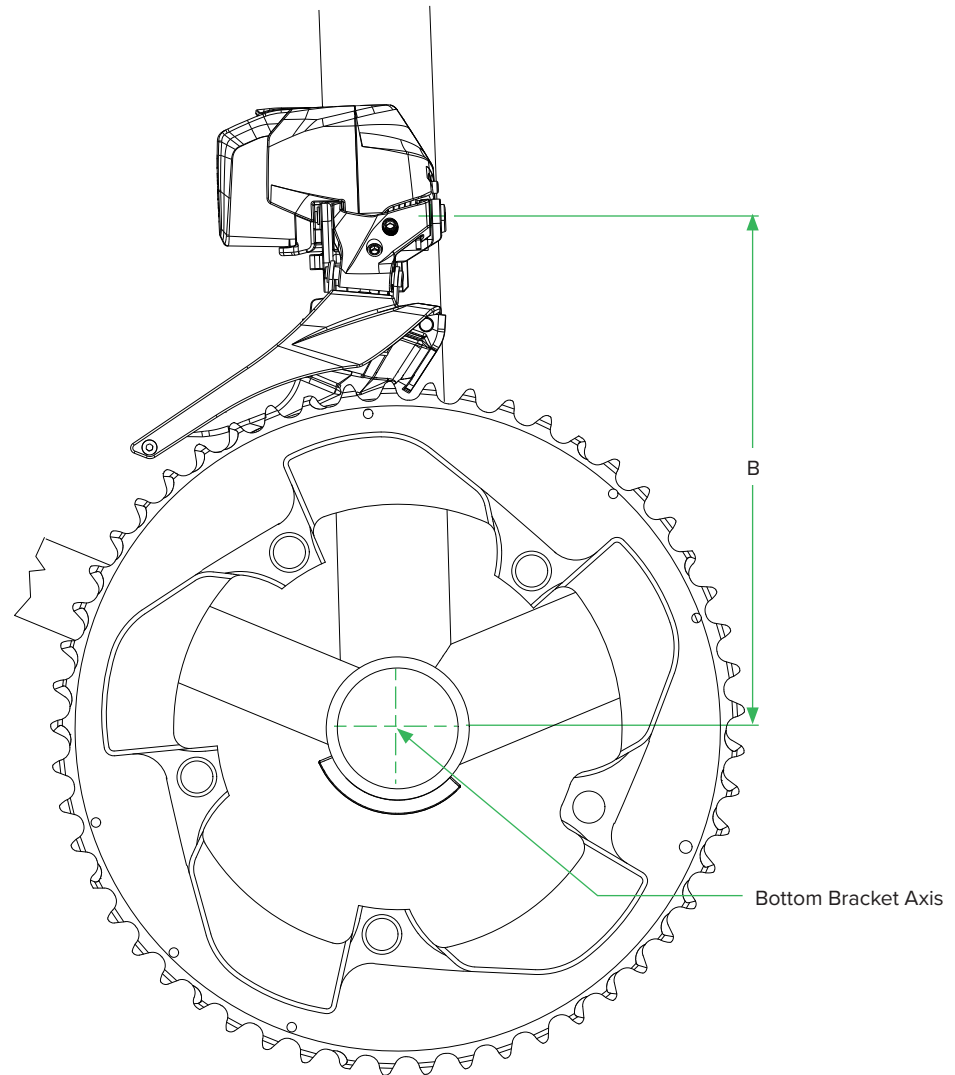


Braze-on Hanger Dimensions

SRAM 12 Speed

| | Chainring Size | Fixation Bolt Height B (mm) |
|----|----------------|-----------------------------|
| 2x | 50-37 | 150.5 |
| | 48-35 | 146.5 |
| | 46-33 | 142.5 |
| | 43-30 | 136.5 |

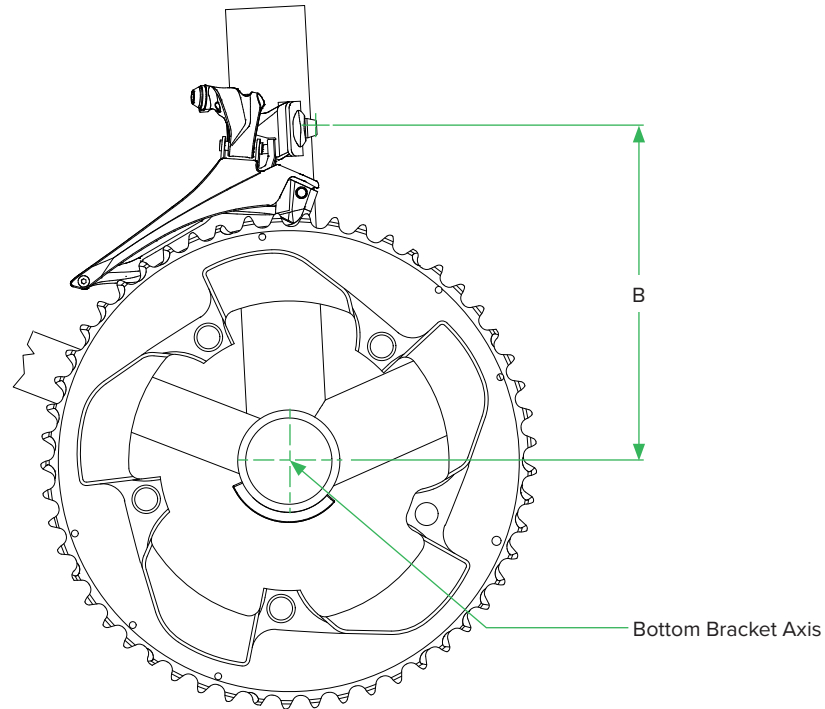
Nominal FD position provided, design should allow for adequate adjustment range in the FD hanger slot to account for tolerances.



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) |



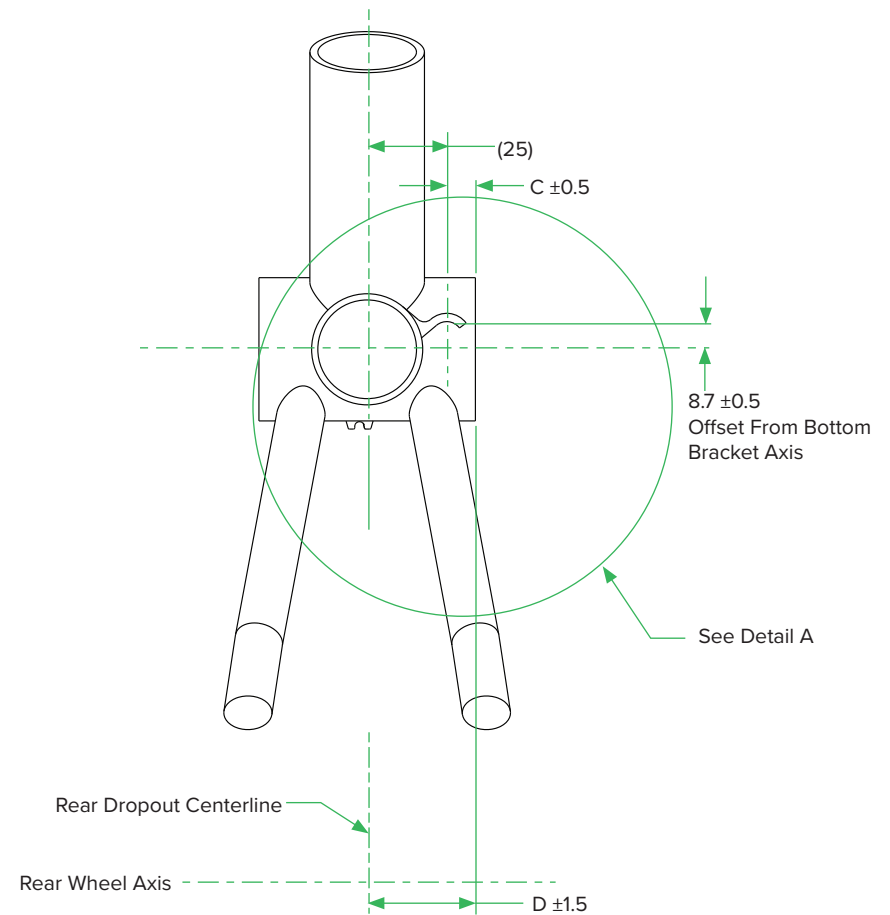
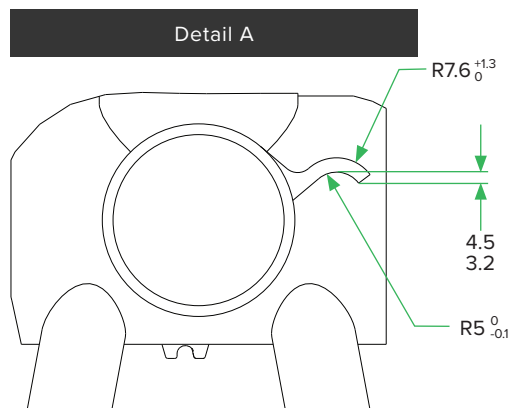
Braze-on Hanger Dimensions

Front Derailleur Interface

| BB Shell Type | BB Shell Width* (mm) | 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 |

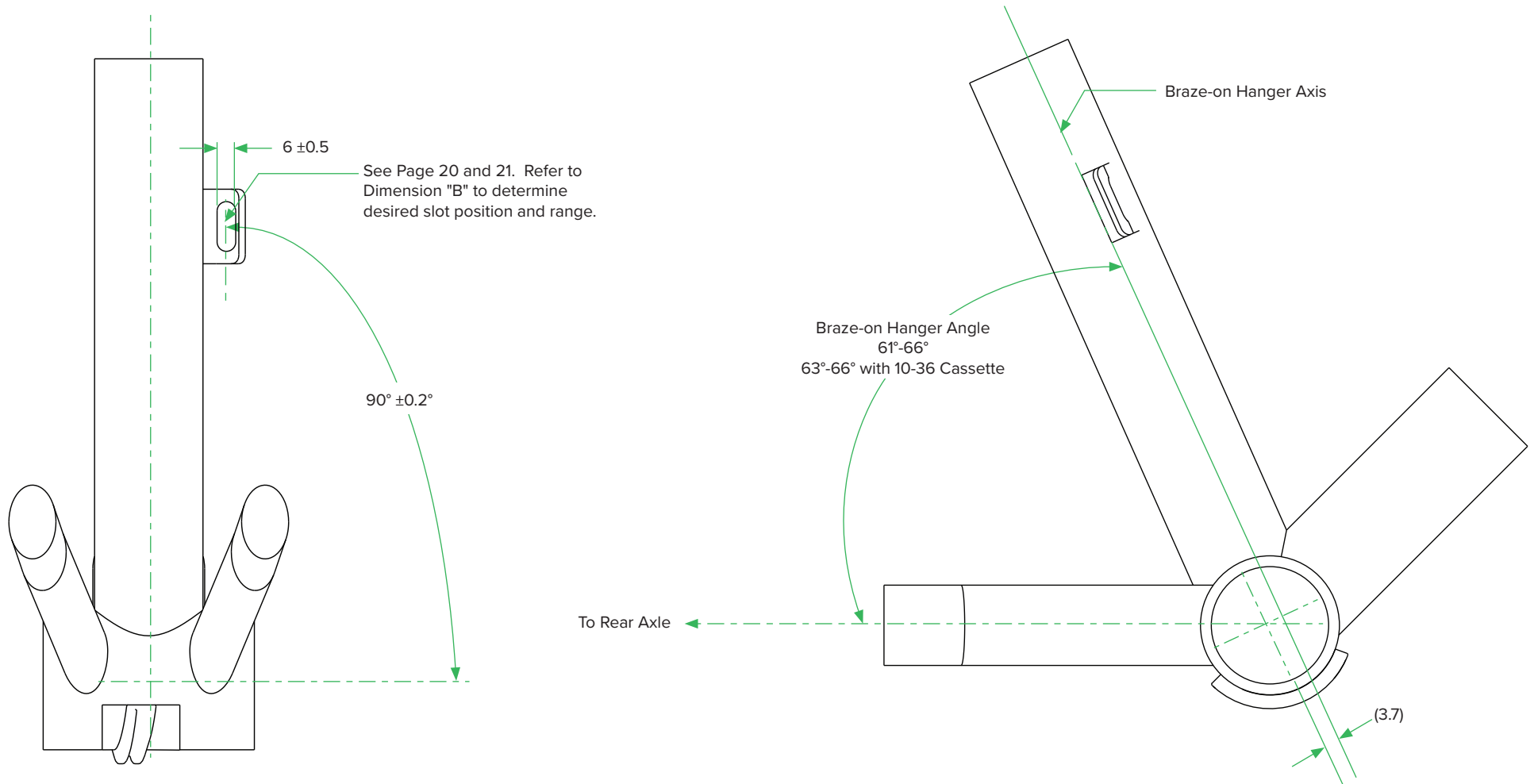
* Dimensions provided for reference, see BB Shell Specifications.

**BSA / PF30 / BB30 73 mm supported by wide chainline front crank and front derailleur only, see the DUB Road Crankset and Bottom Bracket User Manual for spacer configura-



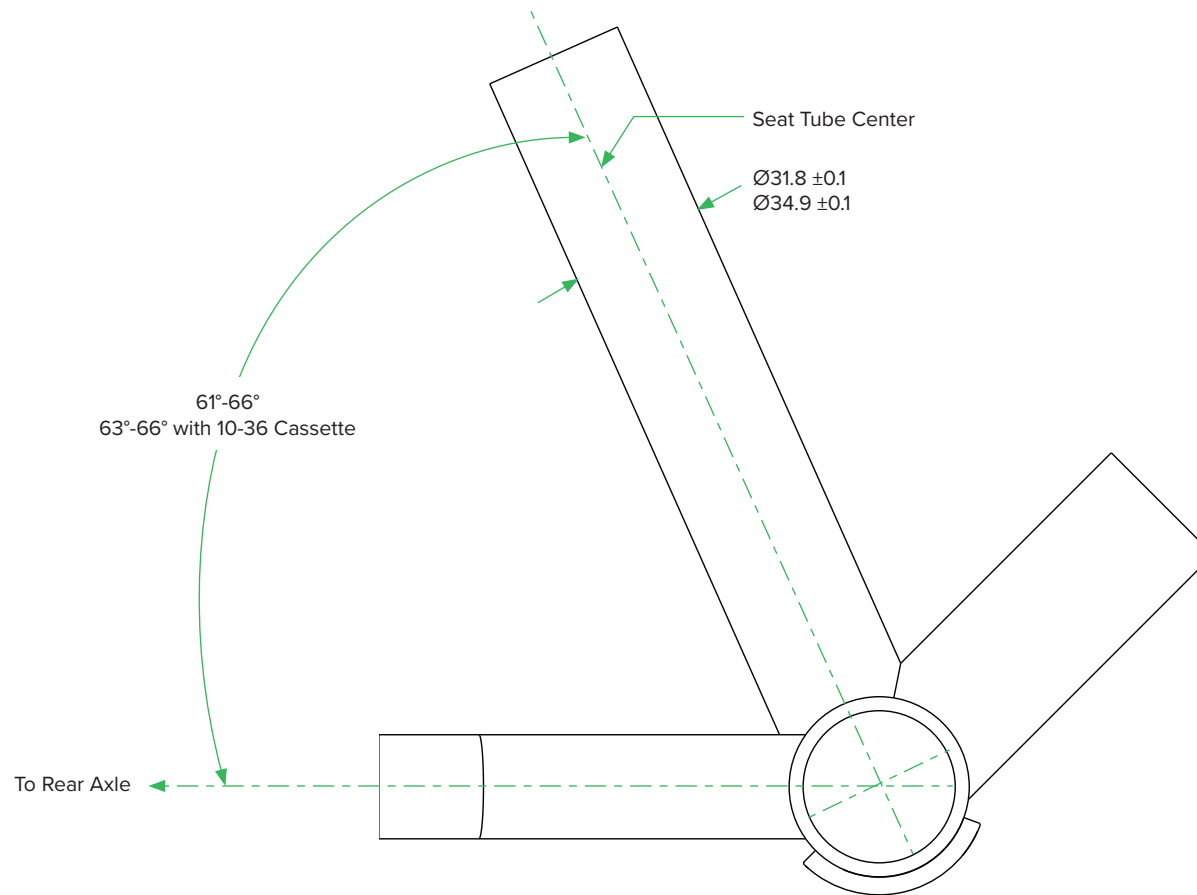
Braze-on Hanger Dimensions

Front Derailleur Interface



Clamp-on Front Derailleur Mount Dimensions

Front Derailleur Interface

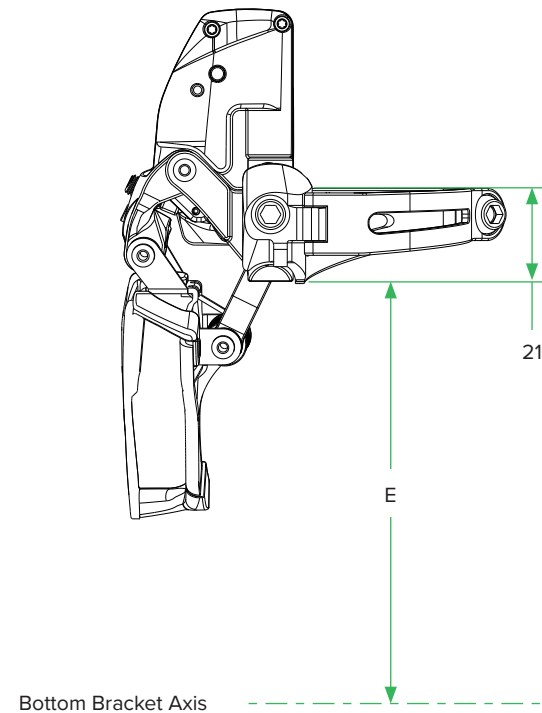


Front Derailleur Position with Clamp Adapter

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 |

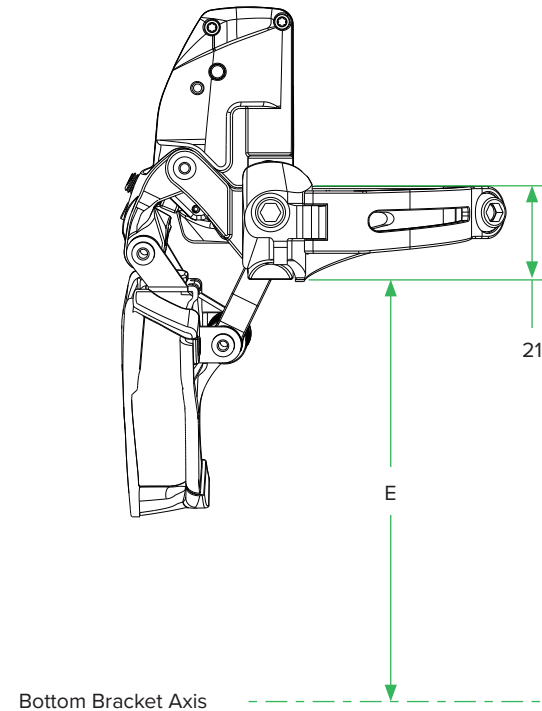
Nominal FD position provided, design should allow for adequate adjustment range of the clamp along the seat tube to account for tolerances.



Front Derailleur Position with Clamp Adapter

SRAM 10 and 11 Speed

| | 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 |

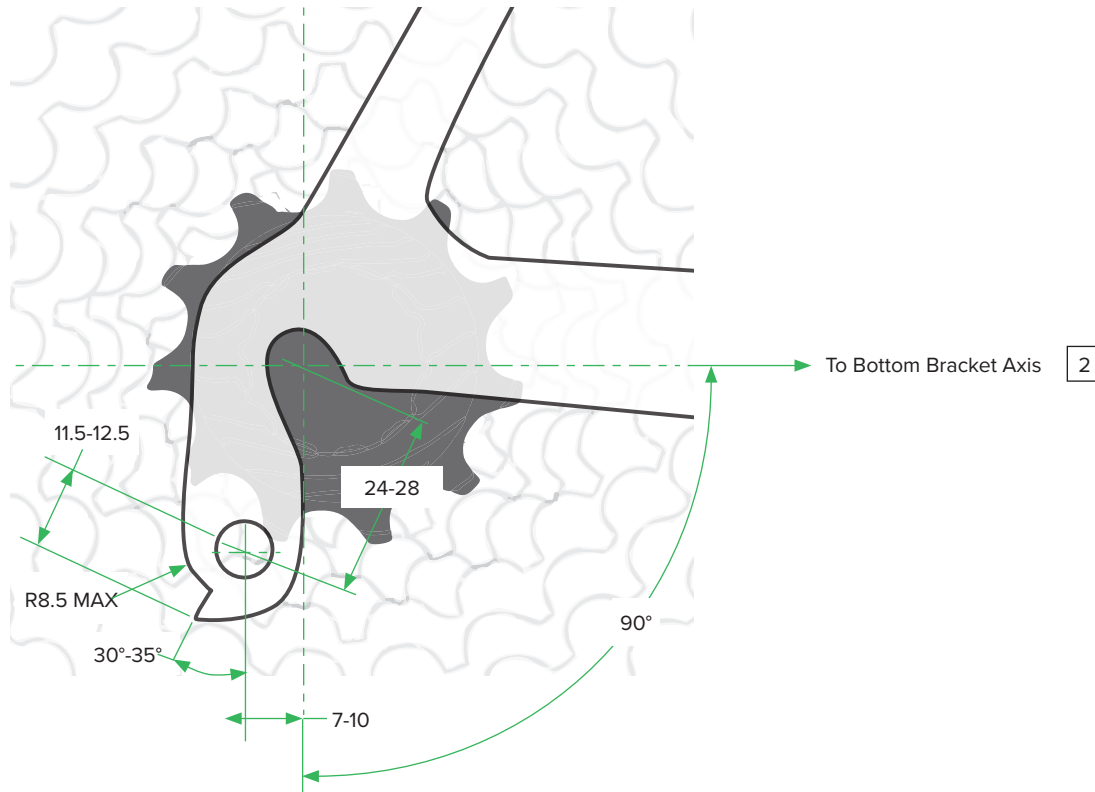


Rear Derailleurs

Hanger and Chainstay Specifications

All SRAM Road Rear Derailleurs

Rear Derailleur Hanger and Chainstay

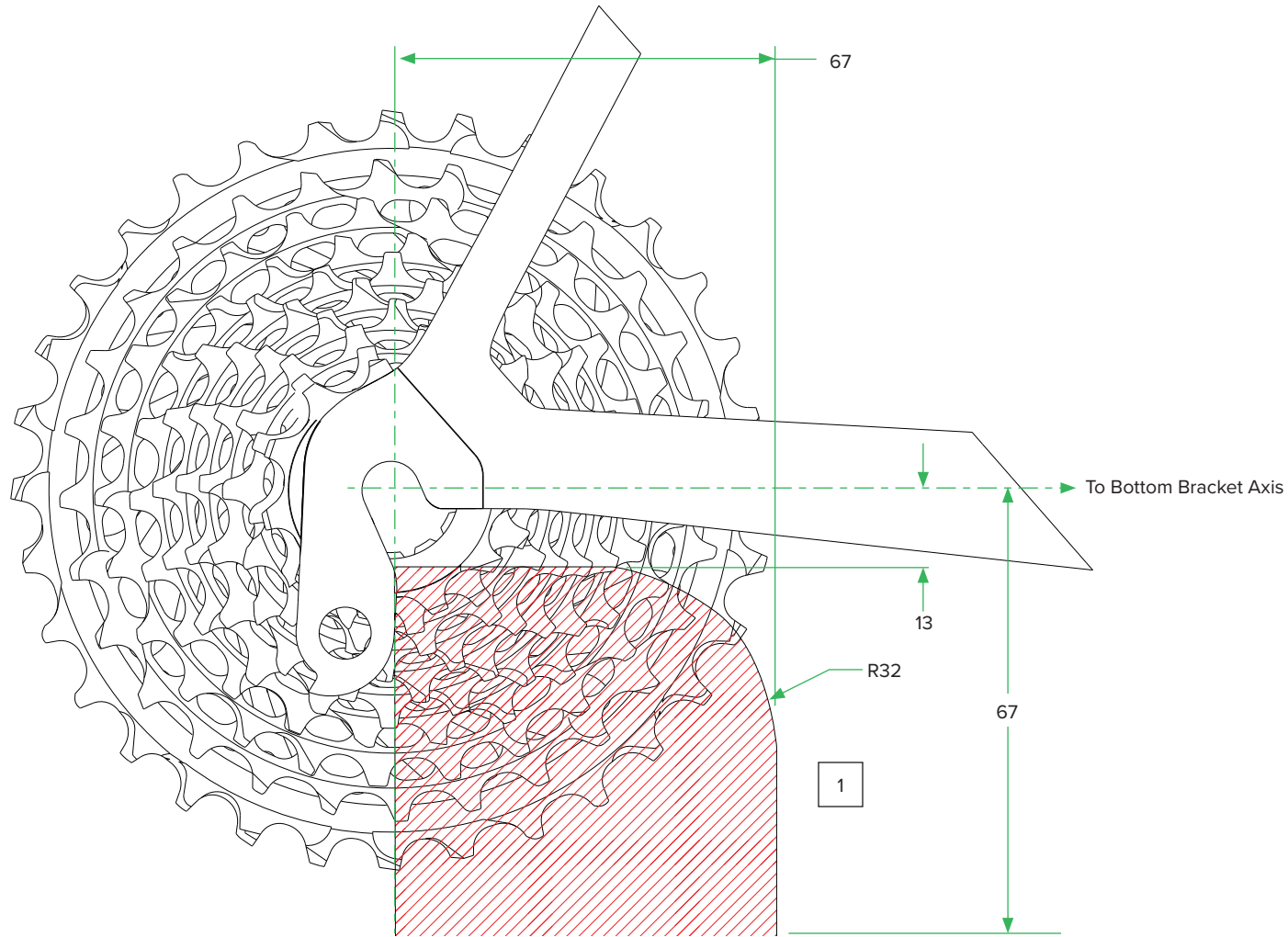


- 1 Chainstay should be designed for sufficient clearance to the chain when on the smallest cog to avoid contact between chain and chainstay when riding over a rough surface.
- 2 Refer to the [Frame Chainstay Information](#) page for 1x and 2x chainstay length.

Rear Derailleur Frame Clearance

All SRAM Road Rear Derailleurs

1 Keep this area clear for rear derailleur clearance.

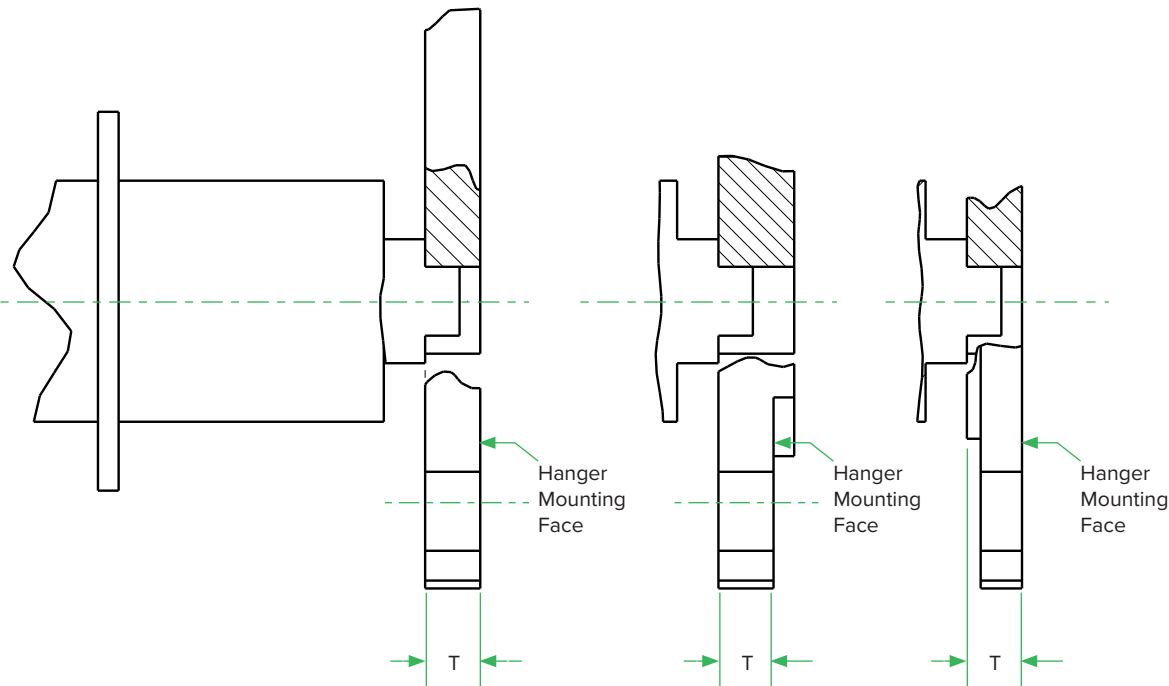


Hanger Specifications

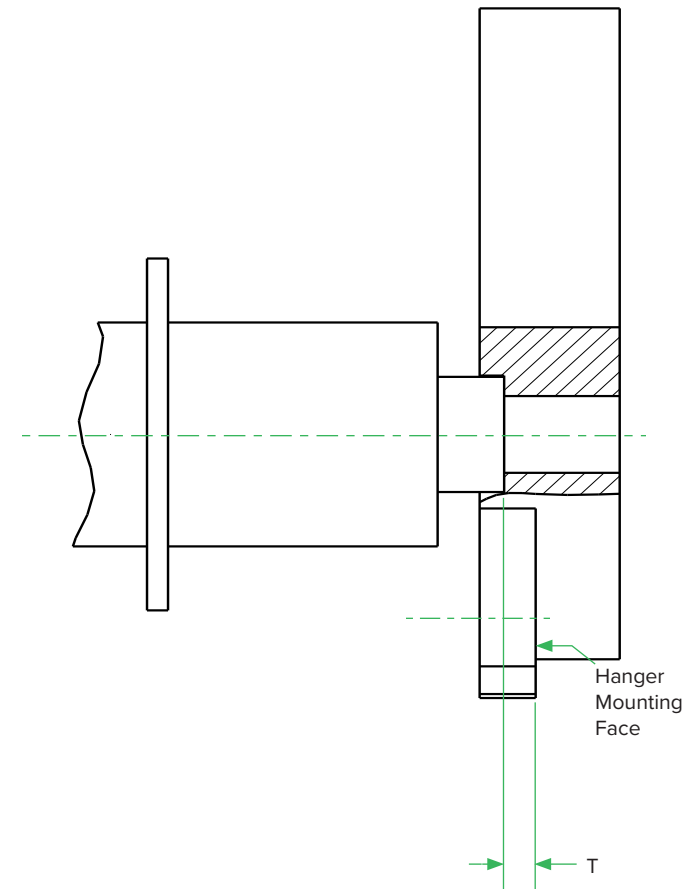
All SRAM Road Rear Derailleurs

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

Quick Release



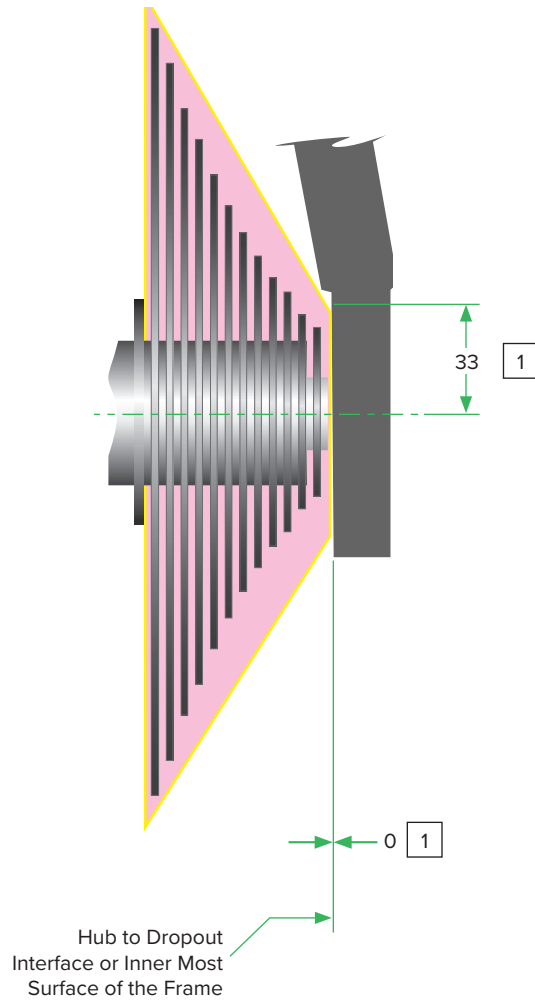
Thru Axle



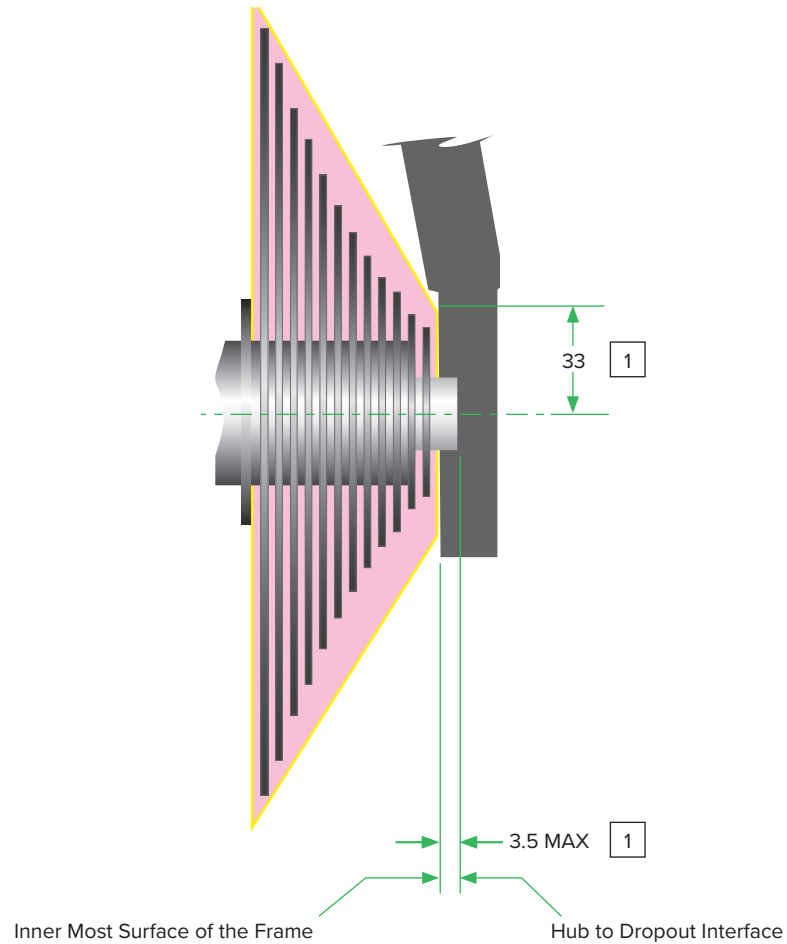
Frame Rear Dropout Clearance

12 Speed Road Chain and Cassette

130 and 135 mm



142 mm



1 An XDR driver body compliant hub is required. Refer to <http://xddriverbody.com/> for freehub driver body specifications.

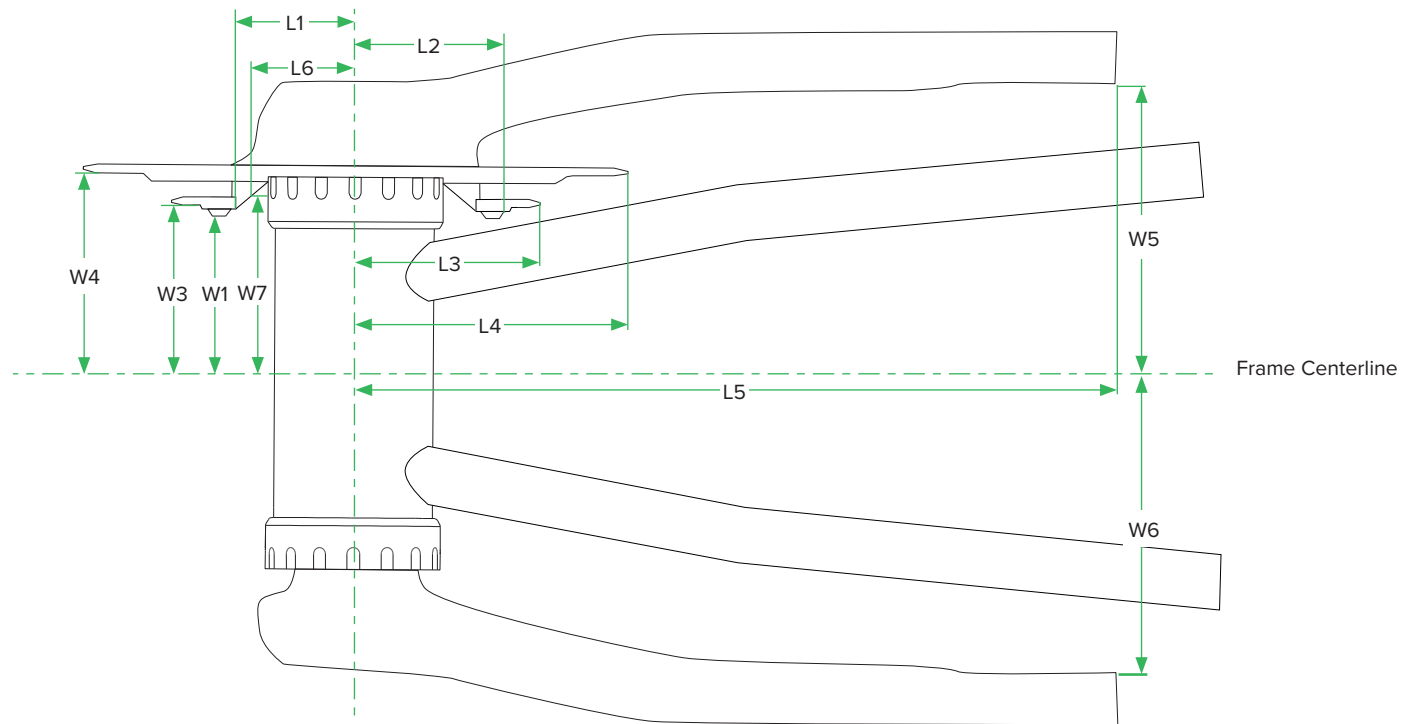
Road Cranksets

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) | Q-Factor |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 50-37 | 47.0 | 60.0 | 76.8 | 102.4 | 190.0 | 35.0 | 37.3 | 39.9 | 47.7 | 60 | 60 | 42.8 | 145 |
| 48-35 | | | 73.4 | 98.3 | | | | | | | | | |
| 46-33 | | | 68.7 | 94 | | | | | | | | | |
| 43-30 Wide | 40.5 | 54.9 | 63.3 | 88.2 | | 31.5 | 39.8 | 42.4 | 50.2 | 62.5 | 62.5 | 45.7 | 150 |

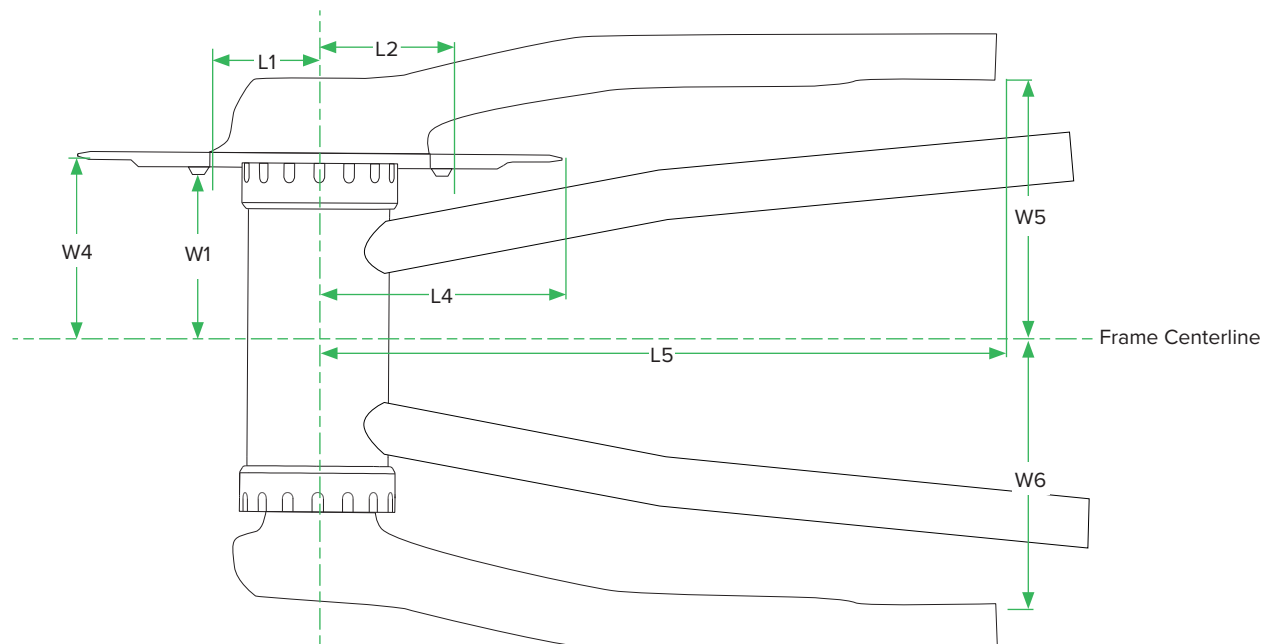
SRAM RED 12 Speed cranksets must also meet Spider Frame Clearance requirements for [Quarq AXS Power Meters](#).



Crankarm and Chainring Frame Clearance

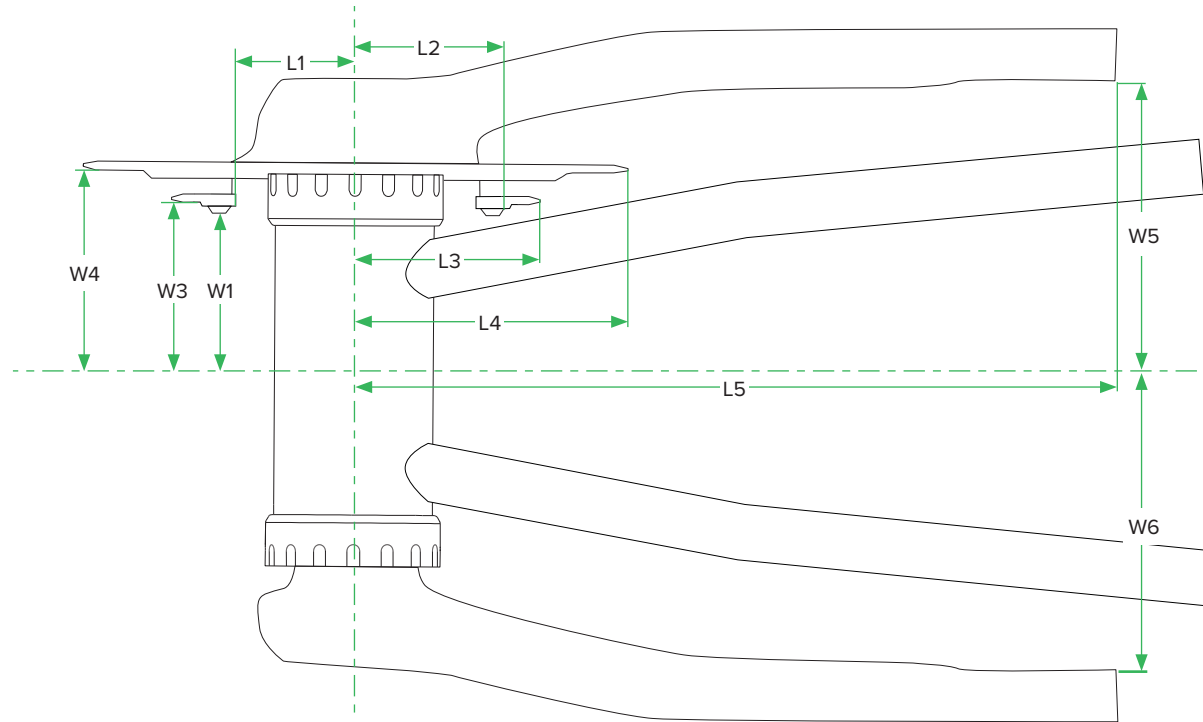
12 Speed

| Chainring Size | L1 (mm) | L2 (mm) | L4 (mm) | L5 (mm) | W1 (mm) | W4 (mm) | W5 (mm) | W6 (mm) | 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 | | | | | | |



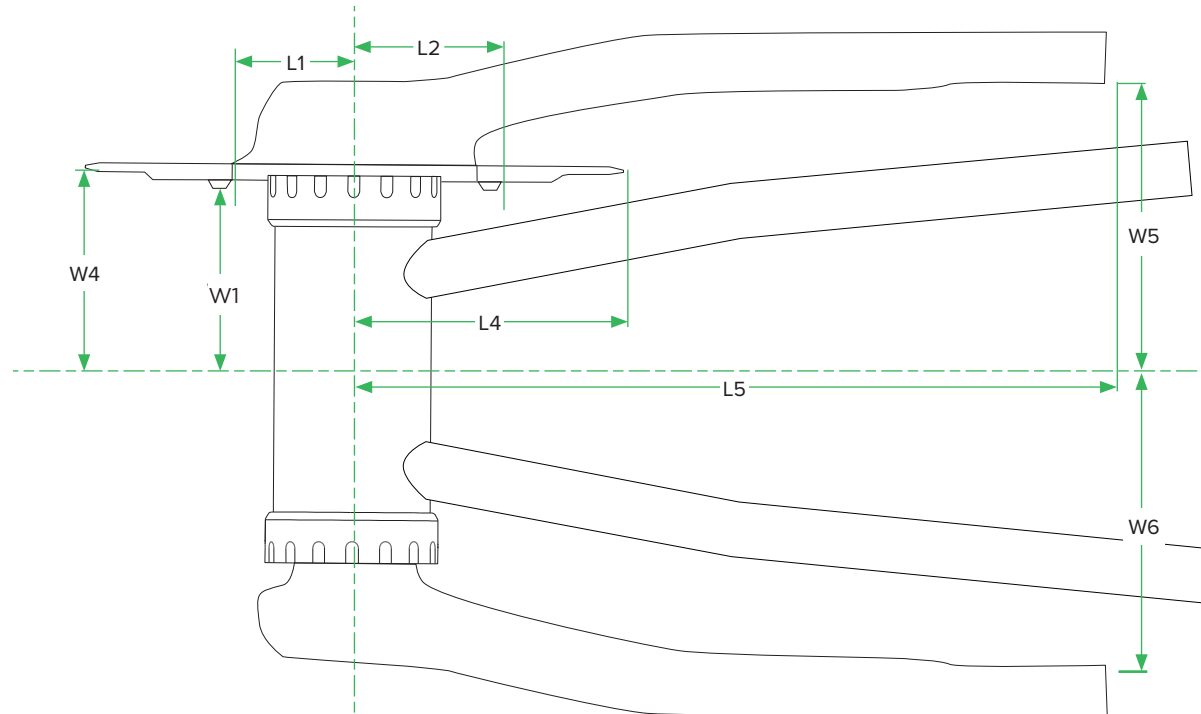
Crankset Diagram

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 | 47.0 | 61.0 | 75.0 | 107.0 | 38.0 | 48.0 | 60.0 MIN | 60.0 MIN | 145 | | | |
| 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 GXP/ PFGXP 62.8 BB30 | 63.8 BB30 | 154.6 GXP/ PFGXP 152.4 BB30/ PF30 | GXP BB30 PF30 PFGXP |
| 50/34 | | | 71.0 | 103.1 | | | | | | | | |

| | | | | | | | | | | | | |
|--|------|------|------|-------|-------|------|------|------|--|--|--|------------------------------|
| 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 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 |
| 50/34 | | | 71.0 | 103.1 | | | | | | | | |
| 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 BB30 PF30 PFGXP |
| 46/34 | | | | 95.1 | | | | | | | | |

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 | 47.0 | 62.0 | 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

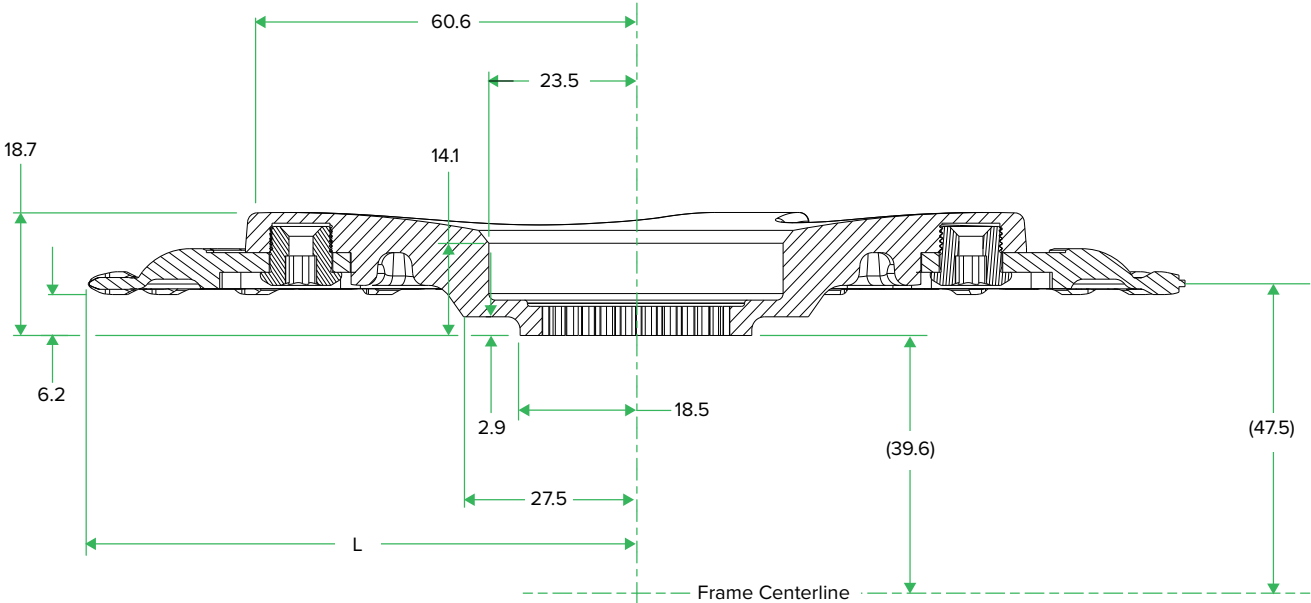
8/9/10 Speed

| 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 | 61.0 | 59.0 | 145 | Power Spline |
| 48 | 47.0 | 71.0 | NA | 99.0 | | | | NA | | | | |
| G52 | 57.0 | | 107.2 | 112.5 | | | | 46.0 | | | | |
| G53 | | Square | | | | | | | | | | |

E-Road Spider Frame Clearance

Bosch Gen 4

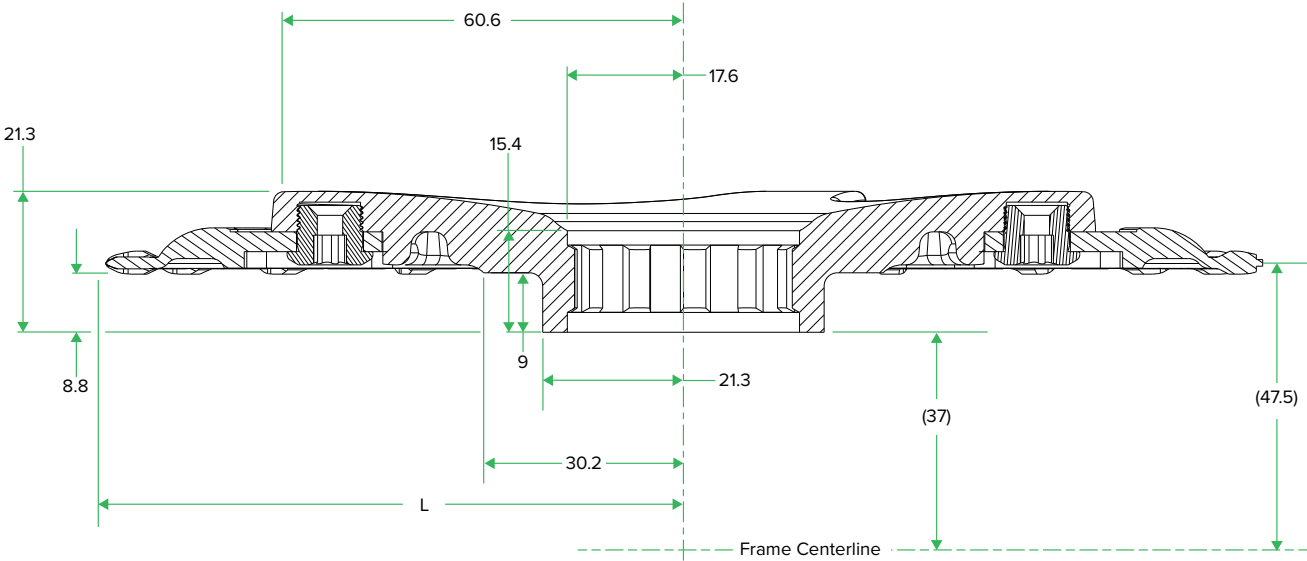
| Chainring | L (mm) |
|-----------|--------|
| 42 | 88.5 |
| 44 | 92.5 |
| 46 | 96.6 |



E-Road Spider Frame Clearance

Fazua

| Chainring | L (mm) |
|-----------|--------|
| 42 | 88.5 |
| 44 | 92.5 |
| 46 | 96.6 |



Spider Frame Clearance

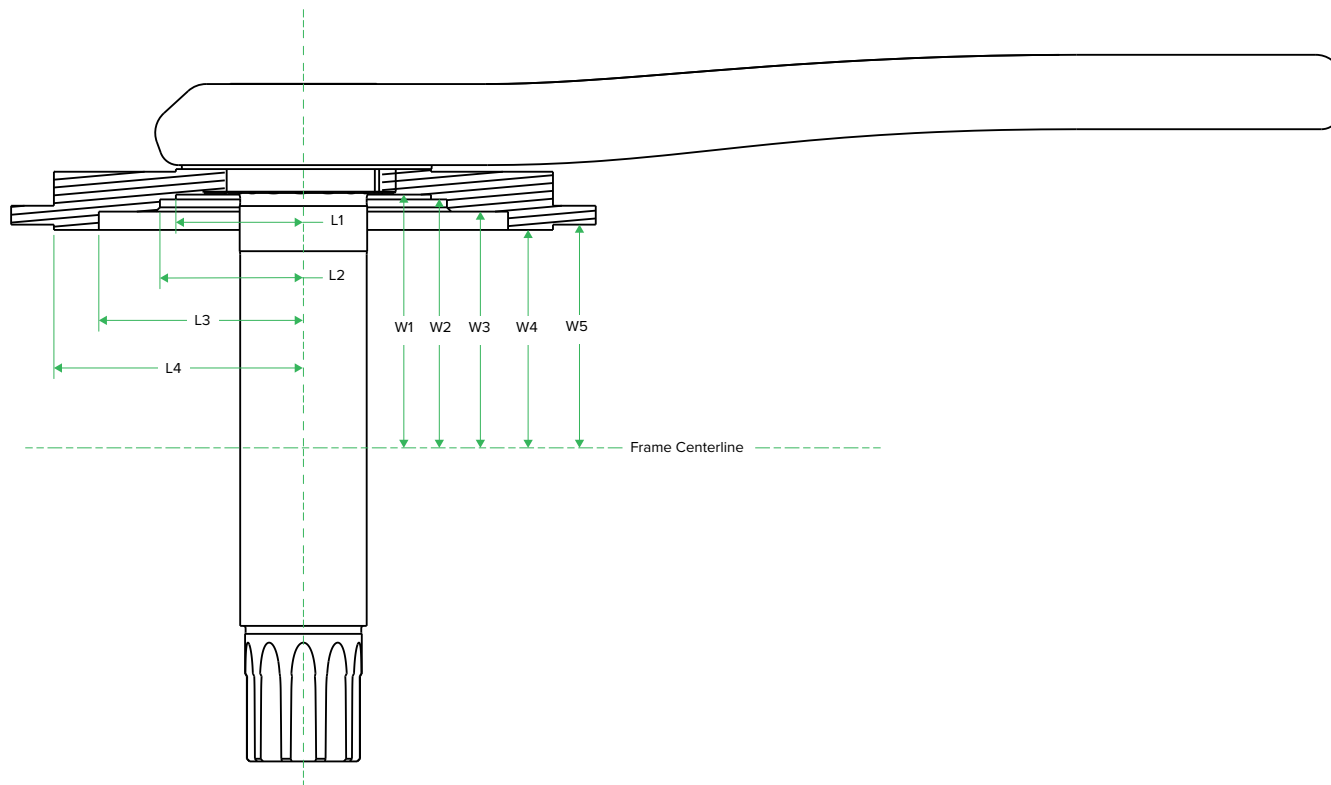
Quarq DZero Platform Power Meters

| Model | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | W1 (mm) | W2 (mm) | W3 (mm) | W4 (mm) | W5 (mm) |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 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 | | | | | |

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

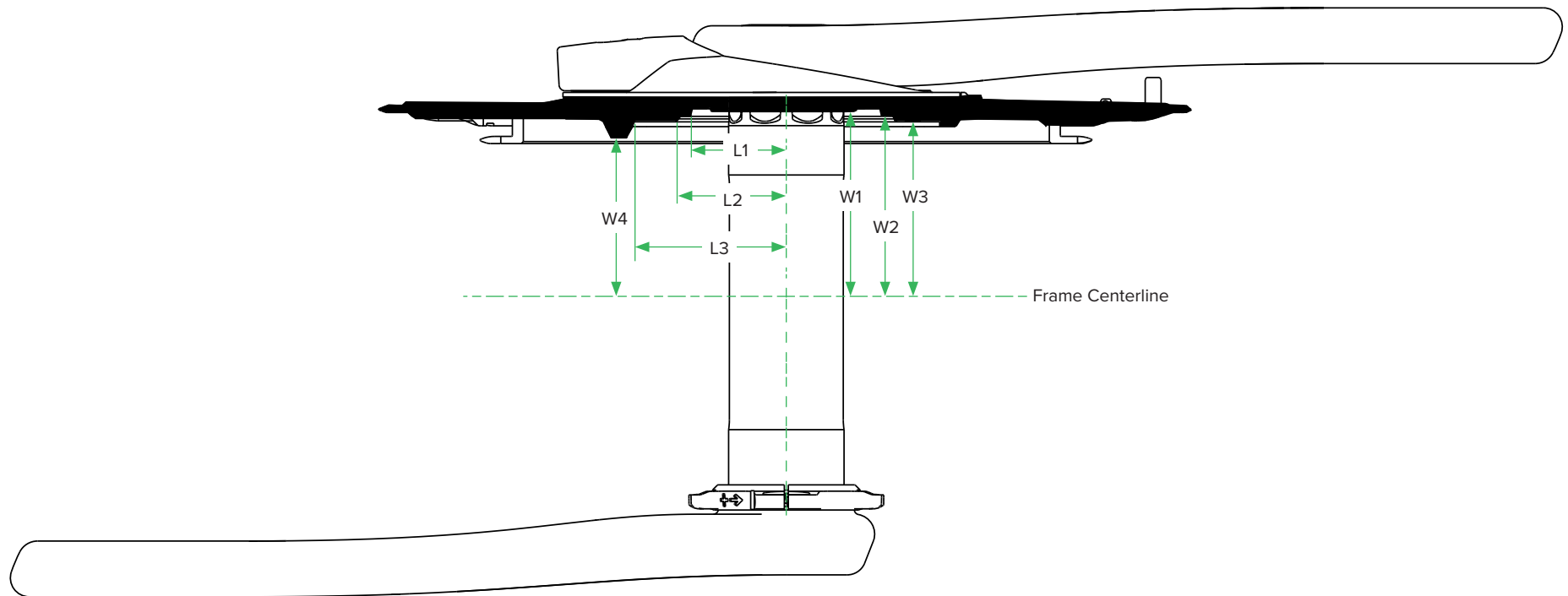
Quarq AXS Platform Power Meters

| 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

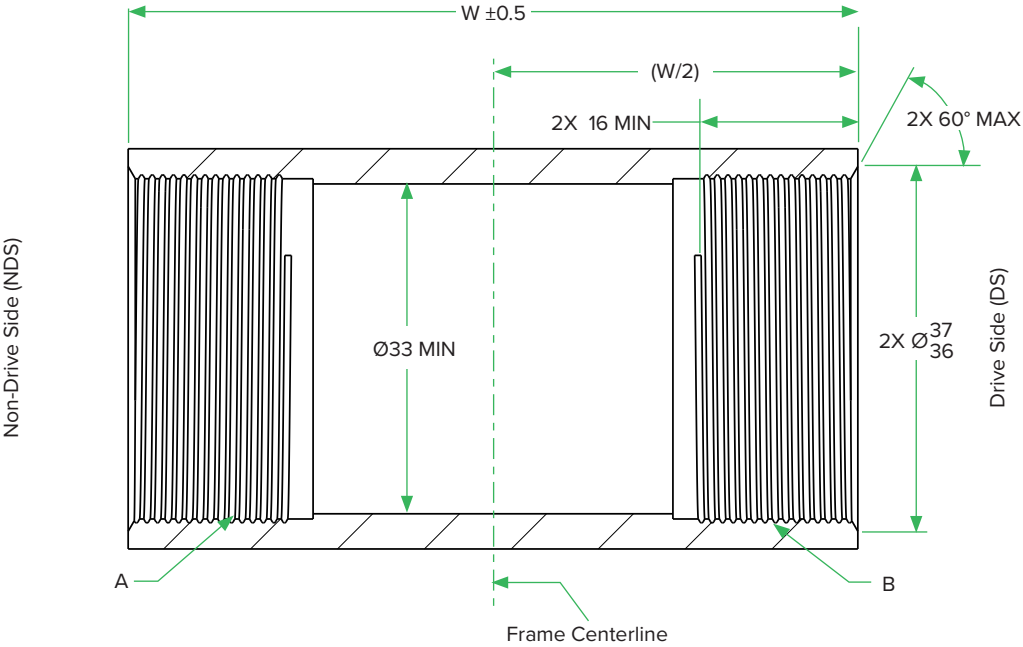
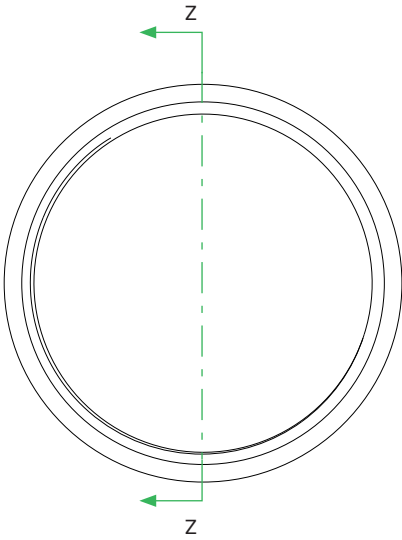
The image depicts a 2X SRAM RED integrated chainring power meter, but dimensions apply to all AXS spider-based power meters.



Bottom Bracket Shell Specifications

BSA and Italian Bottom Bracket

Road Bottom Bracket Frame Shell Specification

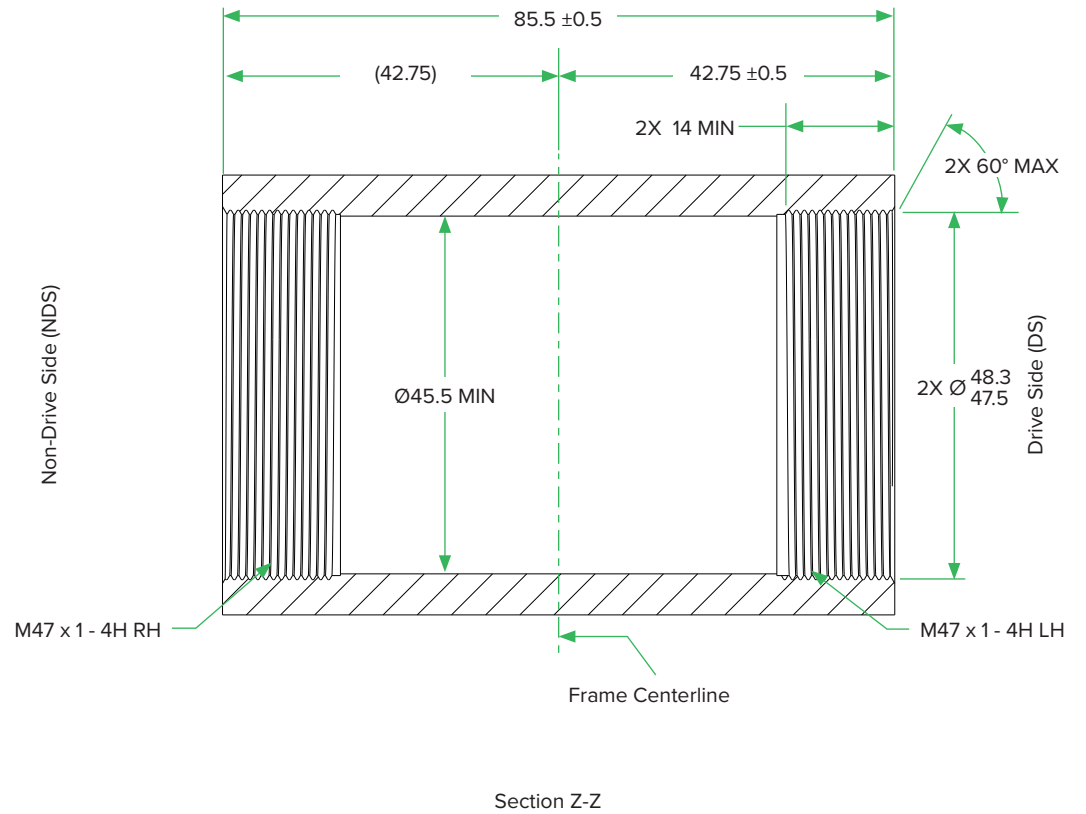
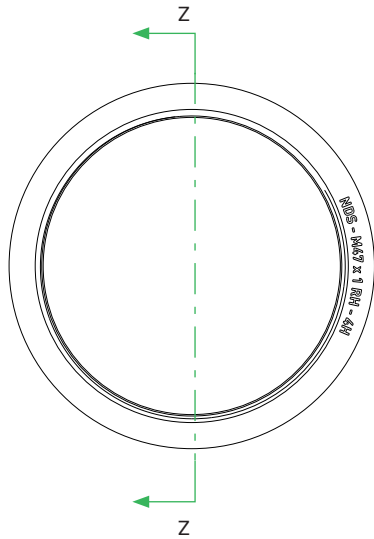


| | W | A | B |
|----------|---------|-------------------------|-------------------------|
| BSA 68 | 68 ±0.5 | BC 1.37" x 24 TPI R.H.* | BC 1.37" x 24 TPI L.H.* |
| BSA 73** | 73 ±0.5 | | |
| Italian | 70 ±0.5 | 36 mm x 24 TPI R.H. | |

*Reference JIS B 0225
 ** BSA 73 is only supported by a wide chainline front crank and front derailleur.

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.

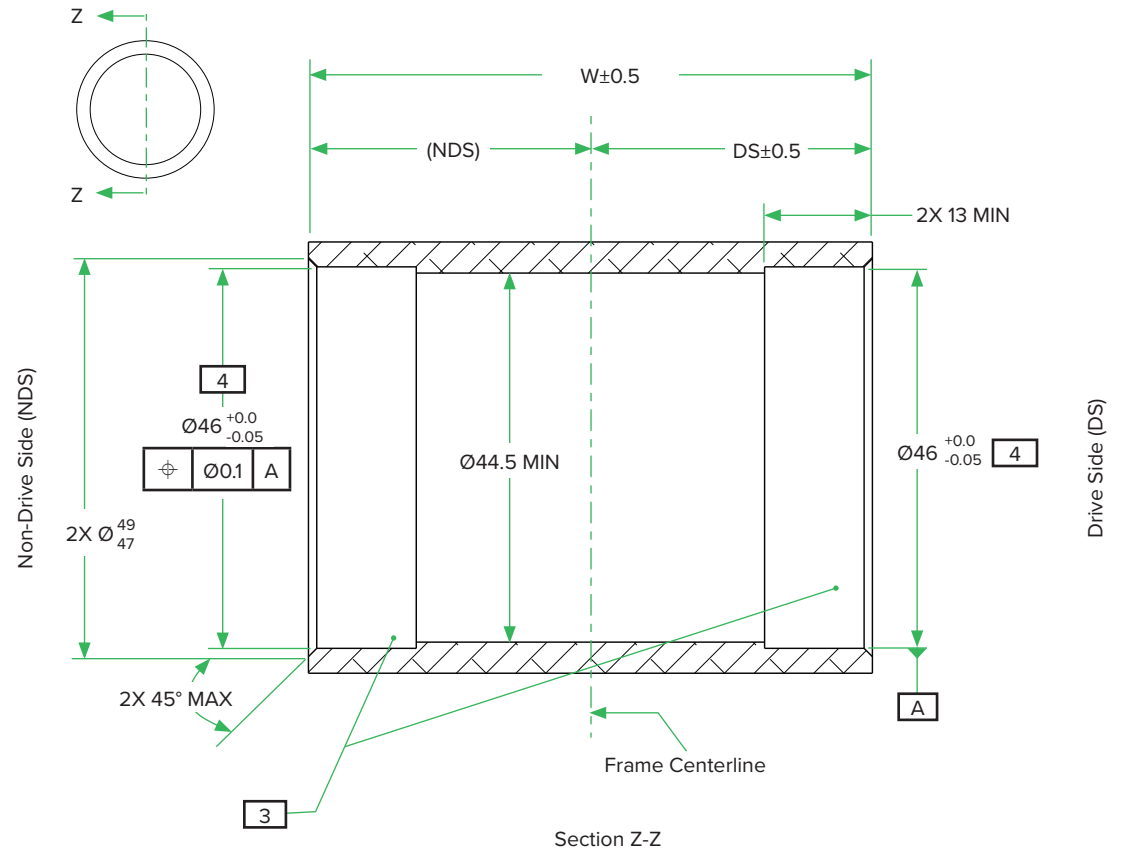
Things that should be considered when evaluating the frame and bottom bracket interaction include, but are not limited to:

- 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* | 73 | 36.5 | |
| 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 | |

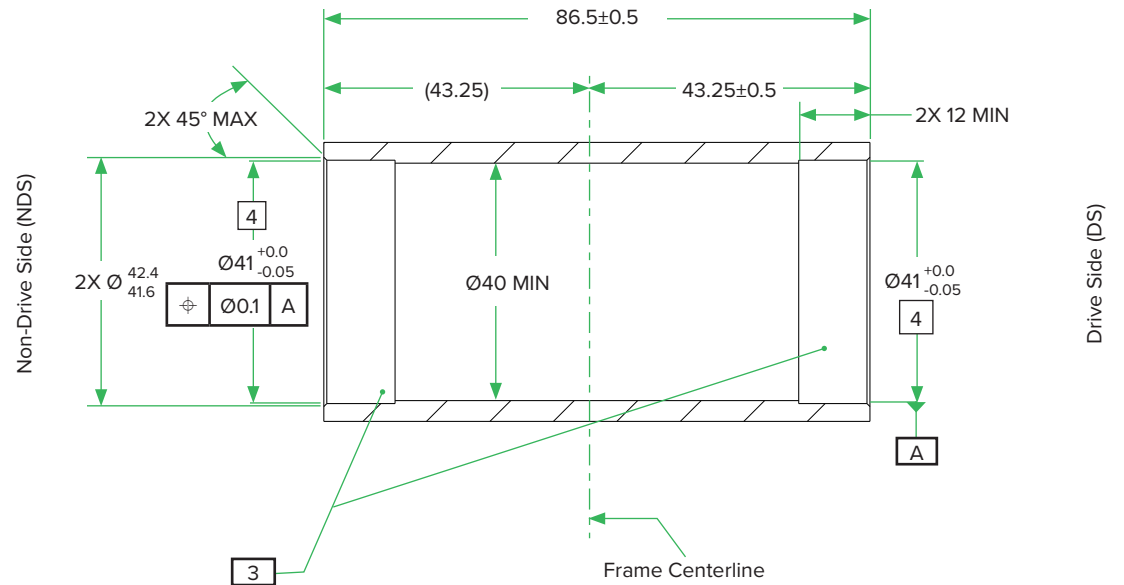
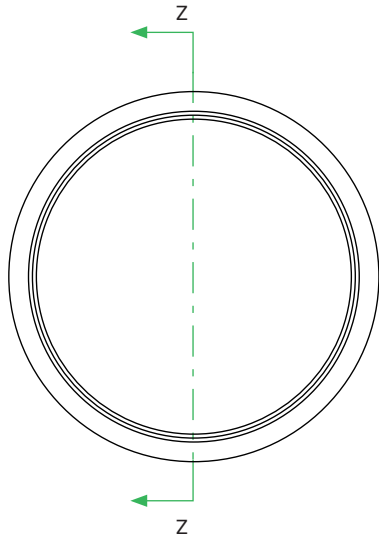
*PF30 73 is only supported by a wide chainline front crank and front derailleur.



- 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

- 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

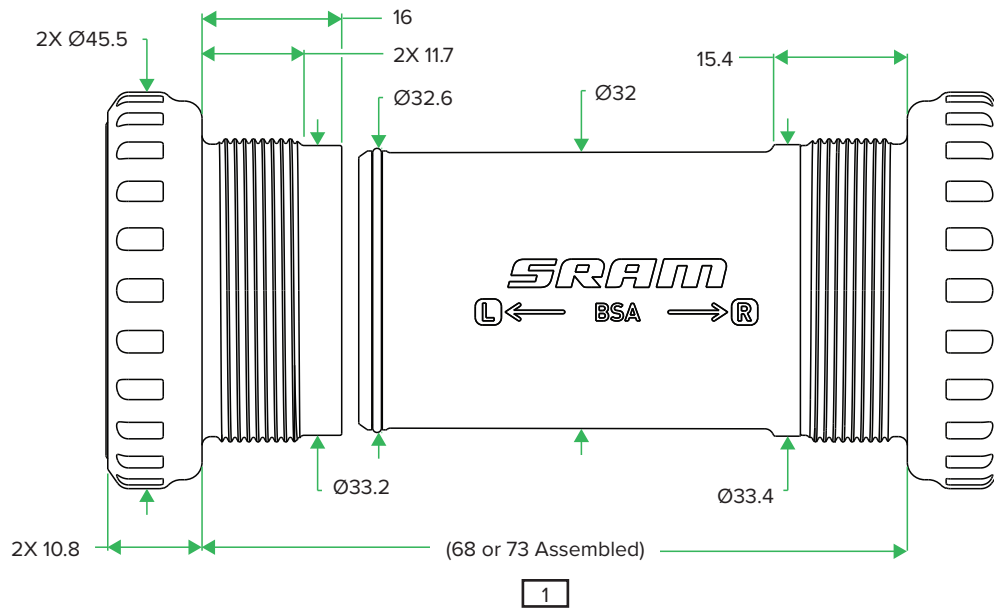
Information

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 68/73

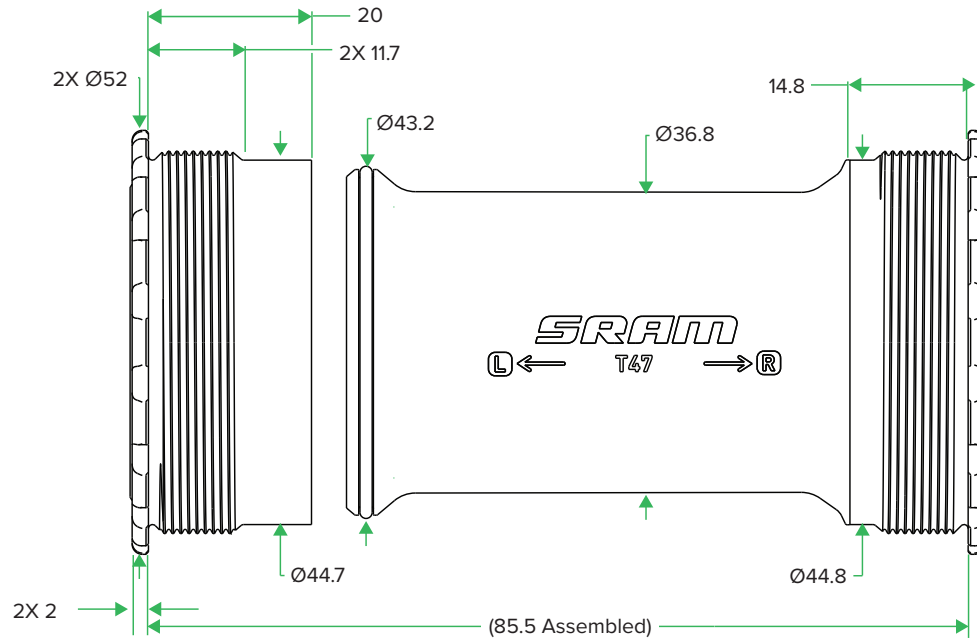
Bottom Bracket Specification



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

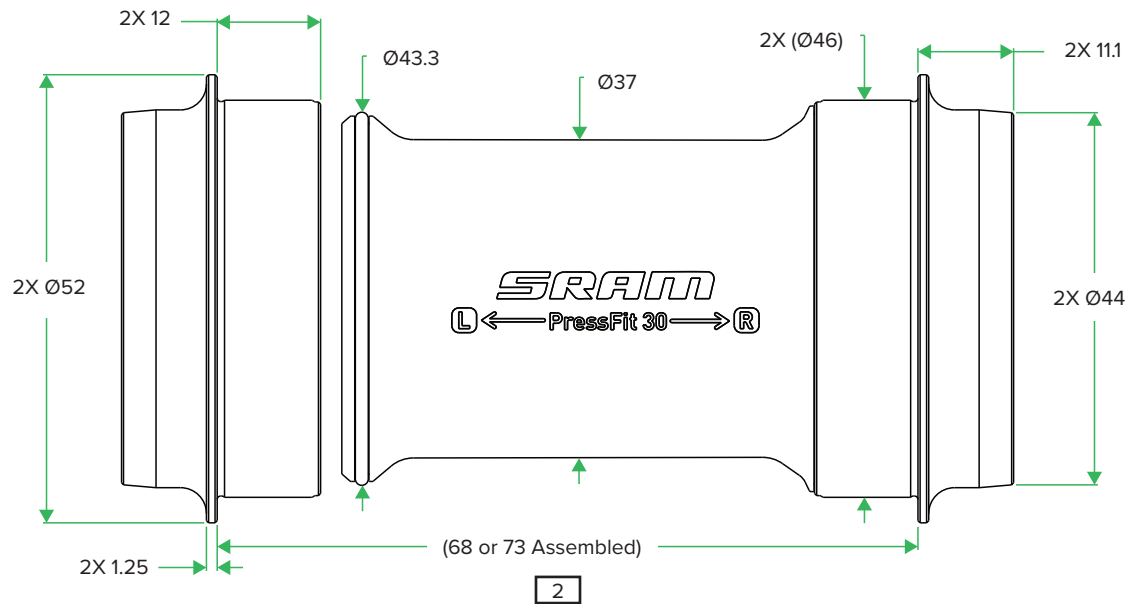
DUB T47 85.5

Bottom Bracket Specification



DUB PressFit 30 68/73

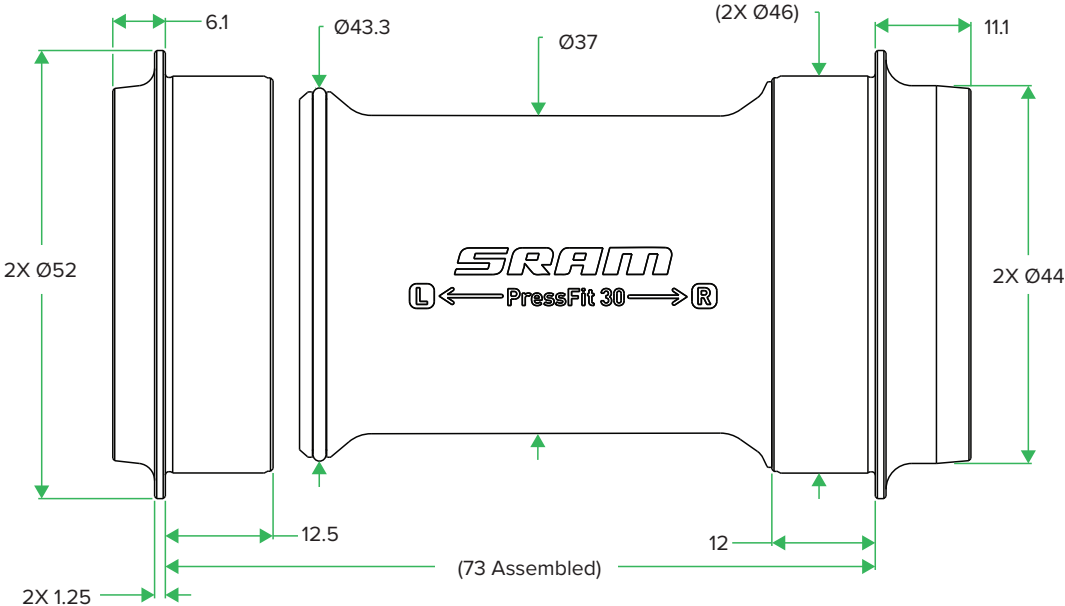
Bottom Bracket Specification



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

DUB PressFit 30 73-A

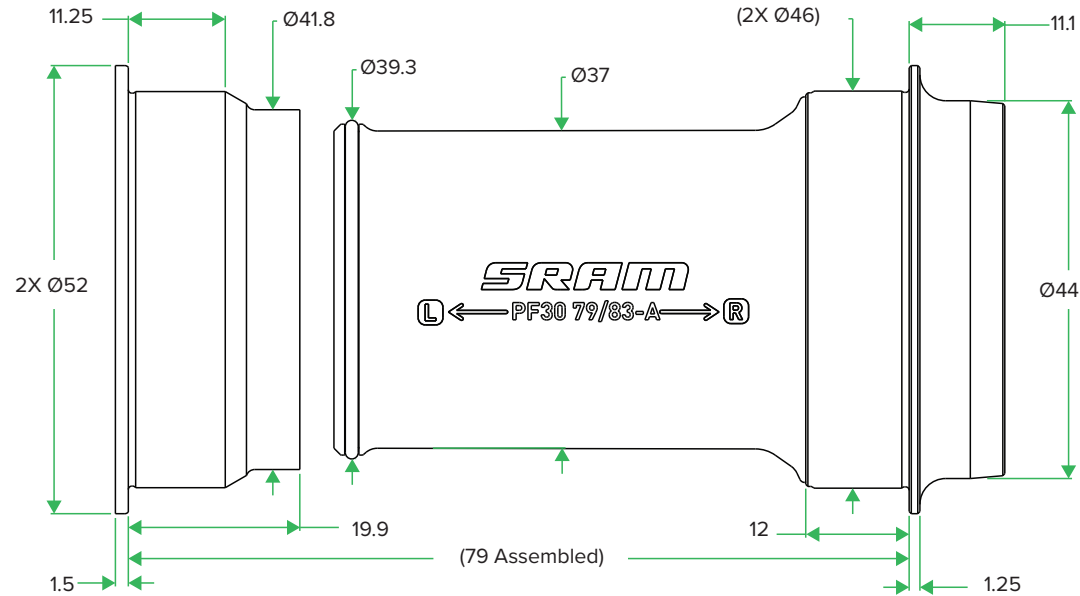
Bottom Bracket Specification



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.

DUB PressFit 30 79-A

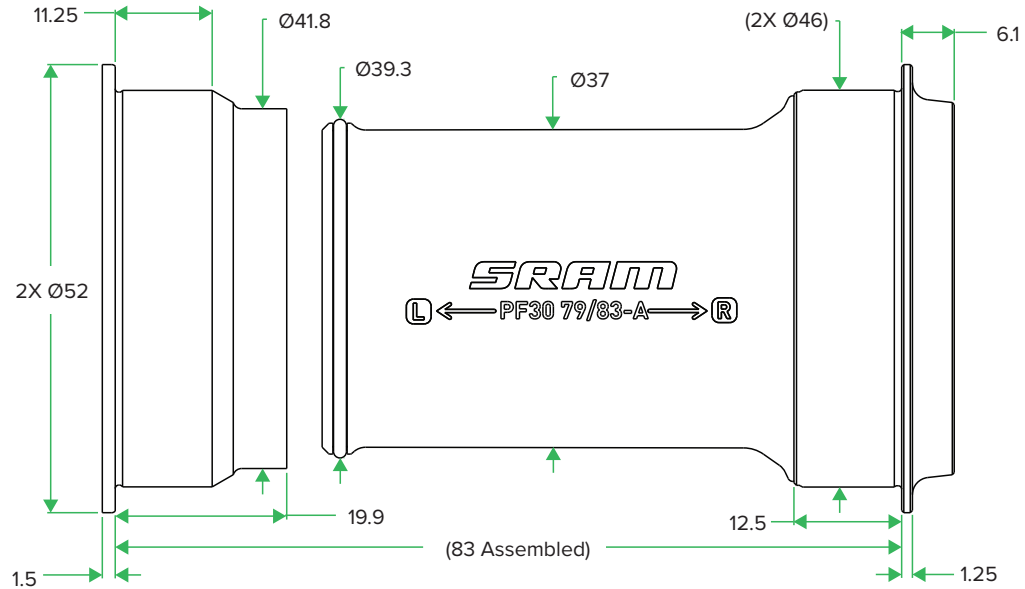
Bottom Bracket Specification



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.

DUB PressFit 30 83-A

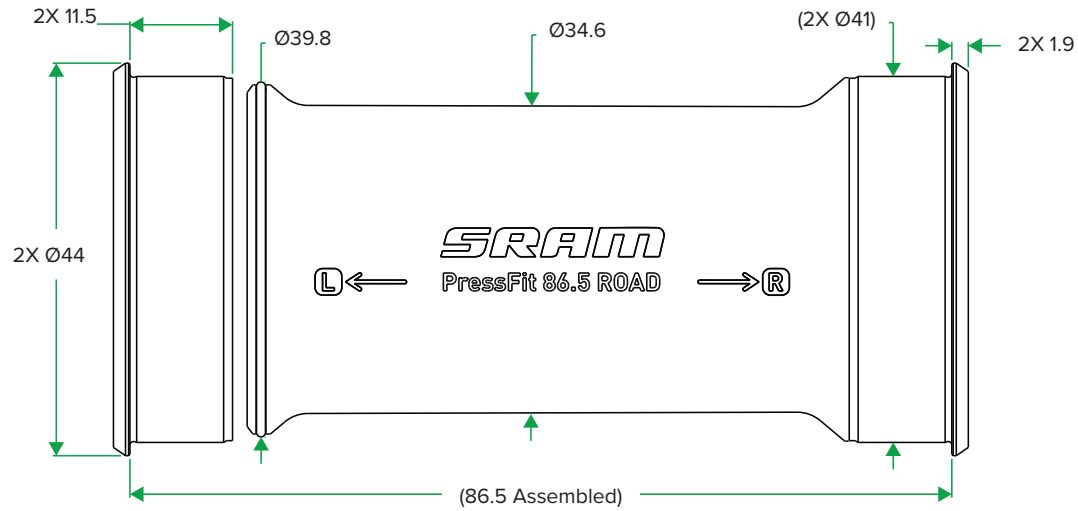
Bottom Bracket Specification



- 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.

DUB PressFit 86.5

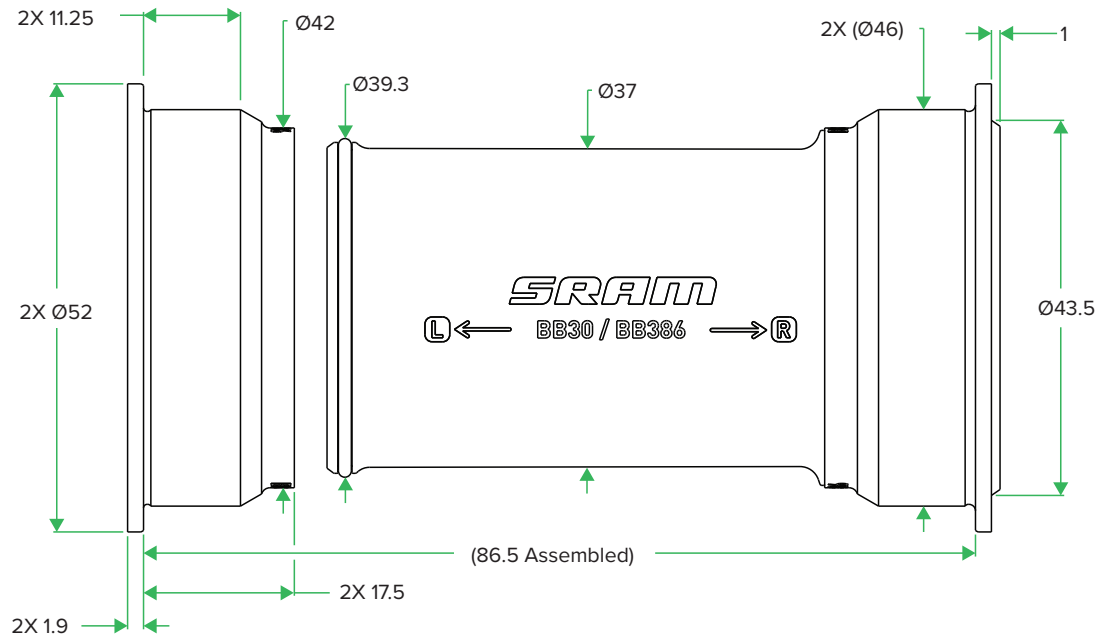
Bottom Bracket Specification



- 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.

DUB BB386

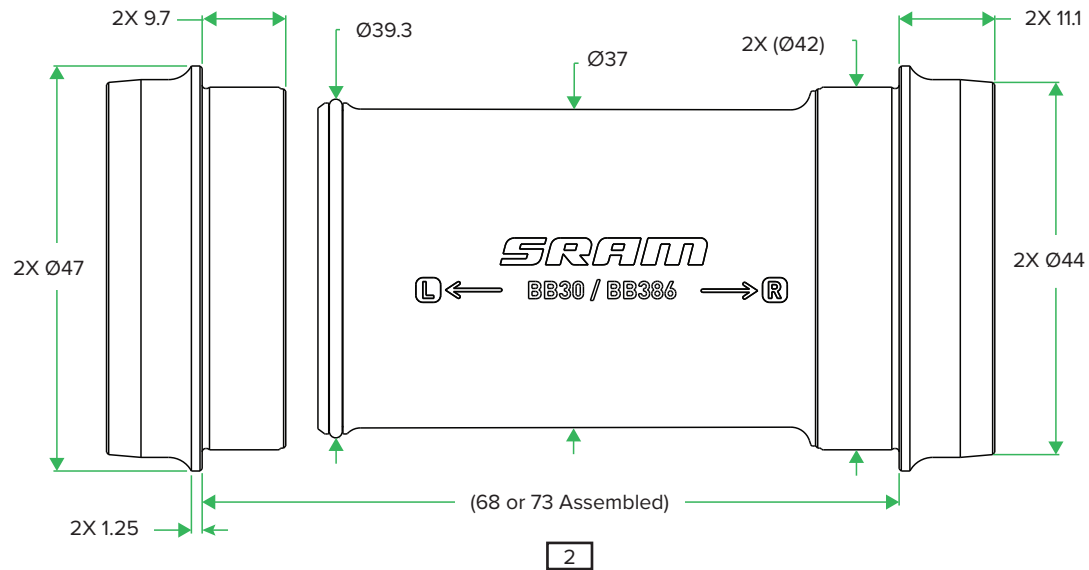
Bottom Bracket Specification



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.

DUB BB30 68/73

Bottom Bracket Specification

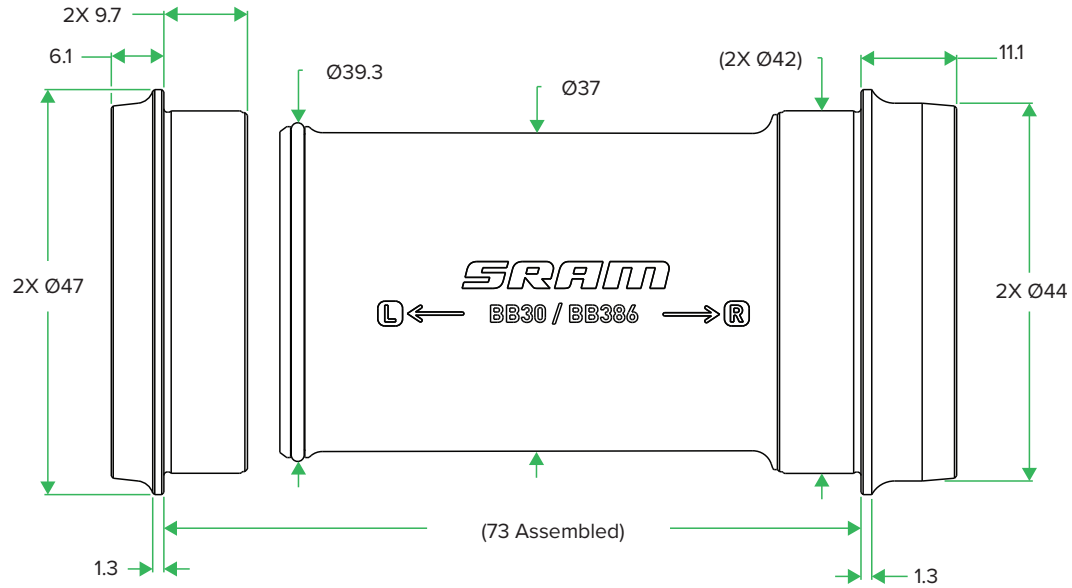


1 Cables and hoses must not contact the crankset spindle during operation; consider cable and hose clearances through the bottom bracket area of the frame.

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

DUB BB30 73-A

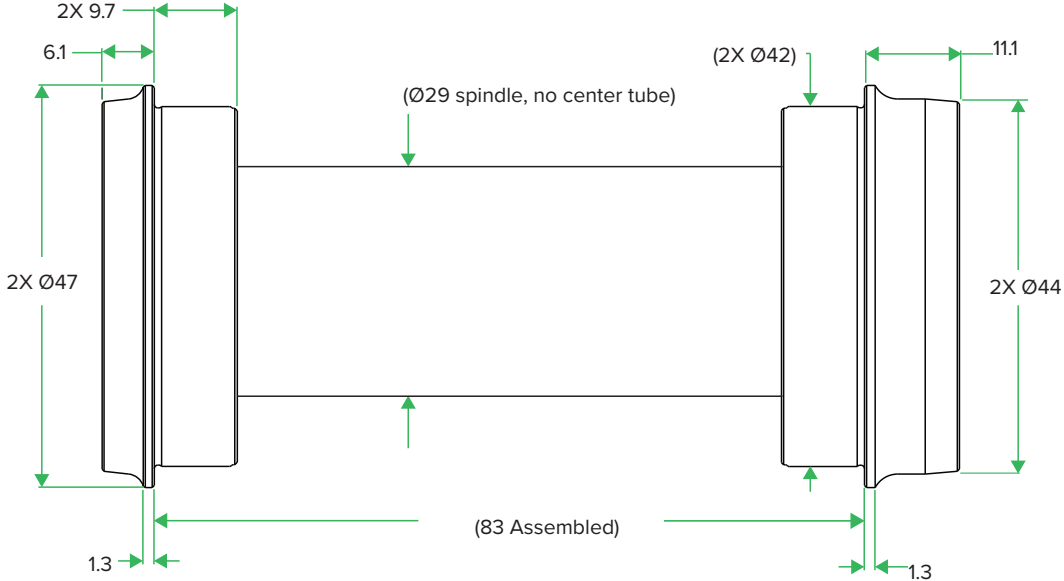
Bottom Bracket Specification



- 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.

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

Safety Guidelines for Rotor Size and Brake Pad Material

All SRAM Road Hydraulic Disc Brakes

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

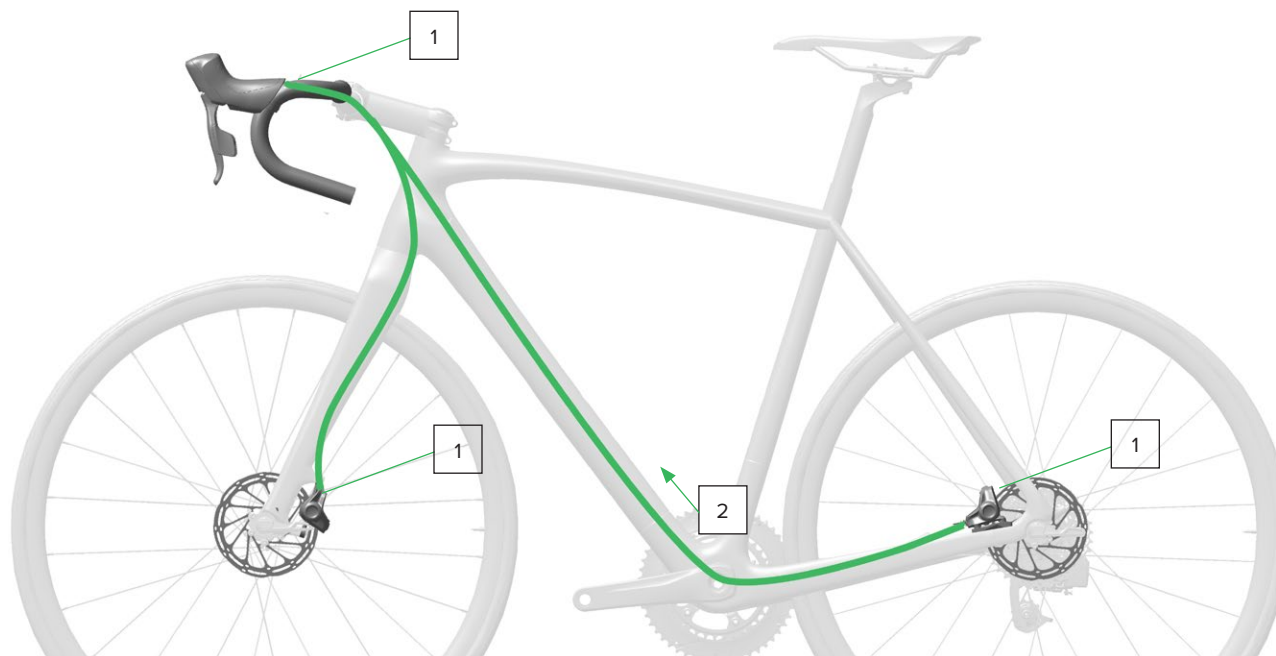
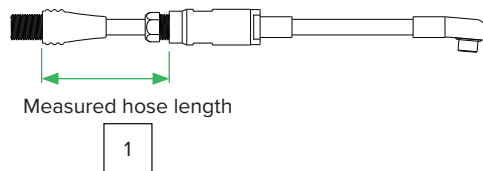
⚠WARNING - CRASH HAZARD

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 RED eTap AXS/ SRAM Force eTap AXS

Disc Brake Hose Length Specification

SJ (Stealth-a-majig)

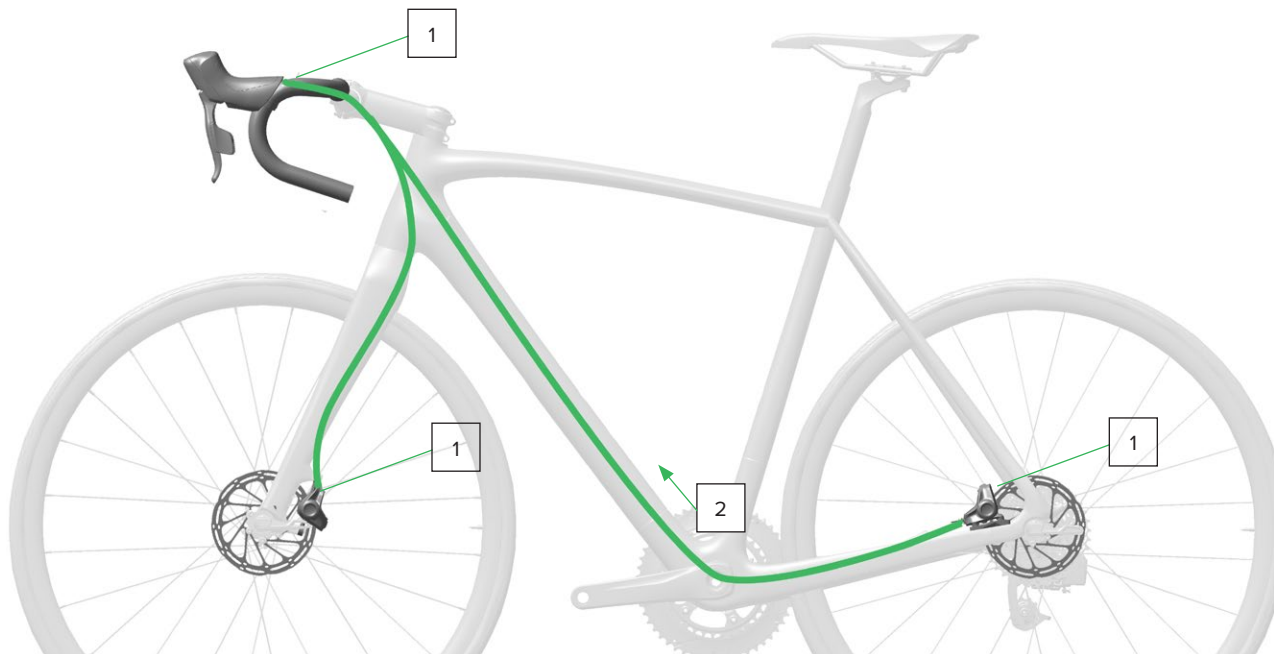
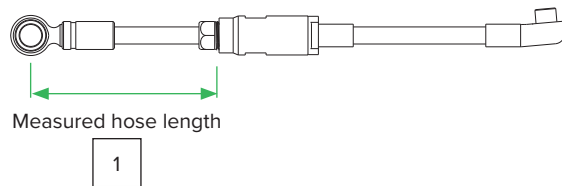


- 1 FG (Finished Good) hose equals the measured hose length from the hood/handlebar interface to the caliper plus 20 mm.
- 2 The SJ hose routing is from back to front of bike.
- 3 For internal routing, the SJ connection requires a hole in the frame or fork that is at least $\text{Ø}5.1$ mm.
- 4 Hose 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.**

SRAM RED 11sp eTap

Disc Brake Hose Length Specification

SJ (Stealth-a-majig)

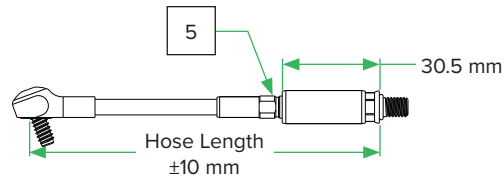


- 1 FG (Finished Good) hose equals the measured hose length from the hood/handlebar interface to the caliper plus 10 mm.
- 2 The SJ hose routing is from back to front of bike.
- 3 For internal routing, the SJ connection requires a hole in the frame or fork that is at least $\text{Ø}5.1$ mm.
- 4 Hose 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.**

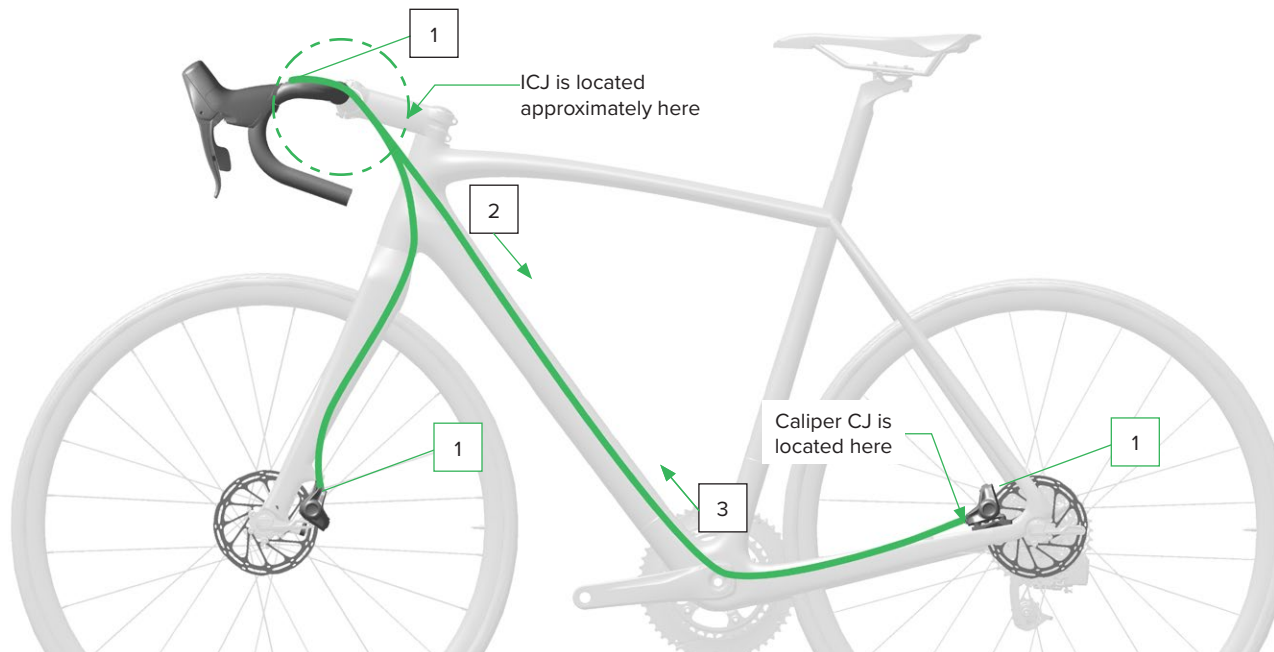
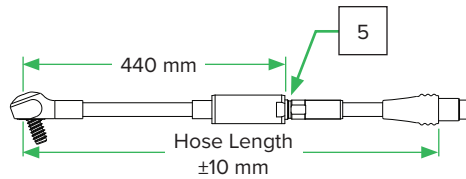
SRAM RED HRD/ SRAM Force HRD/ SRAM Rival HRD/ SRAM Apex HRD/ S-700 HRD

Disc Brake Hose Length Specification

CJ (Connectamajig™)



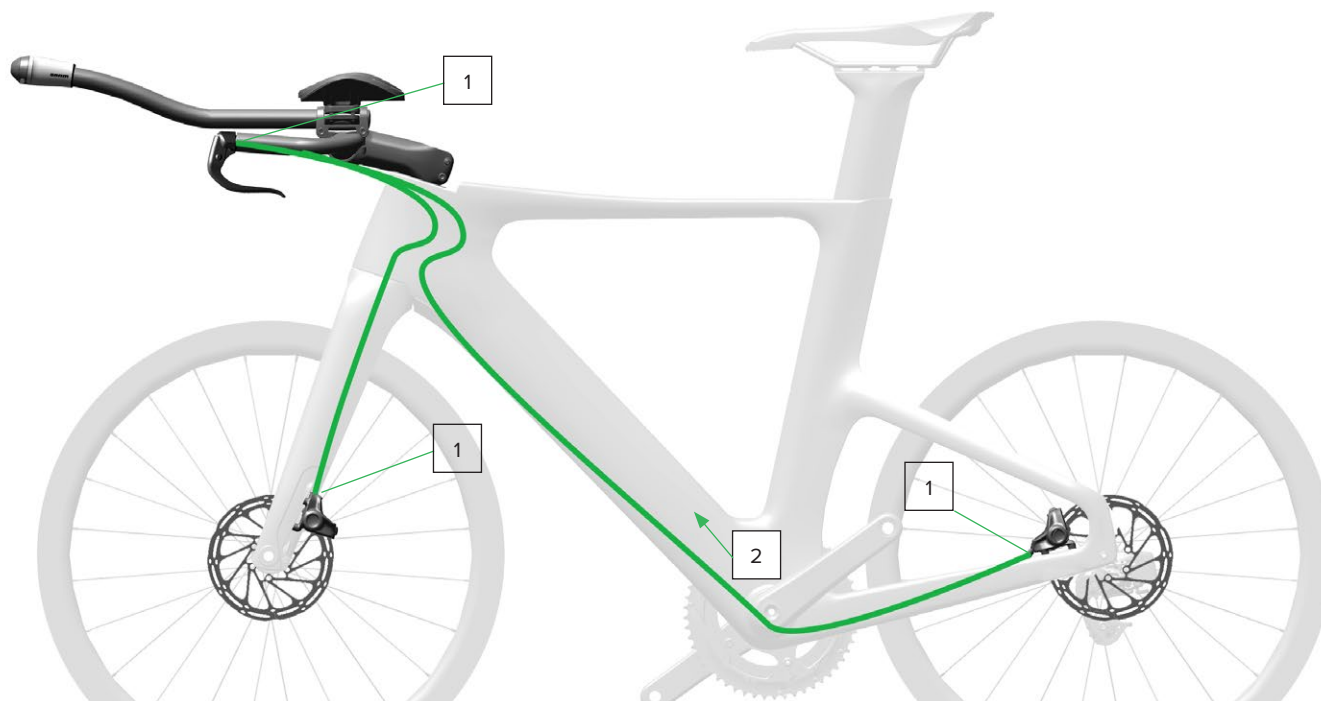
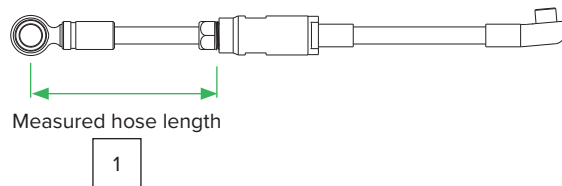
ICJ (Inline Connectamajig)



- 1 Measure the hose length from the hood/handlebar interface to the caliper and add 80 mm to total hose length.
- 2 The CJ hose routing is from front to back of the bike.
- 3 The ICJ hose routing is from back to front of bike.
- 4 For internal routing, the CJ connection requires a hole in the frame or fork that is at least $\varnothing 7.5$ mm.
- 5 Install torque is 2.0 N-m.
- 6 Hose bend radius at 20° C = 30 mm minimum.
- 7 Connect-a-majig for initial assembly only. A bleed is required if the system is disconnected and reconnected more than three times. Do not exceed 24 hours while disconnected.
- 8 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.**

S-900 Aero HRD

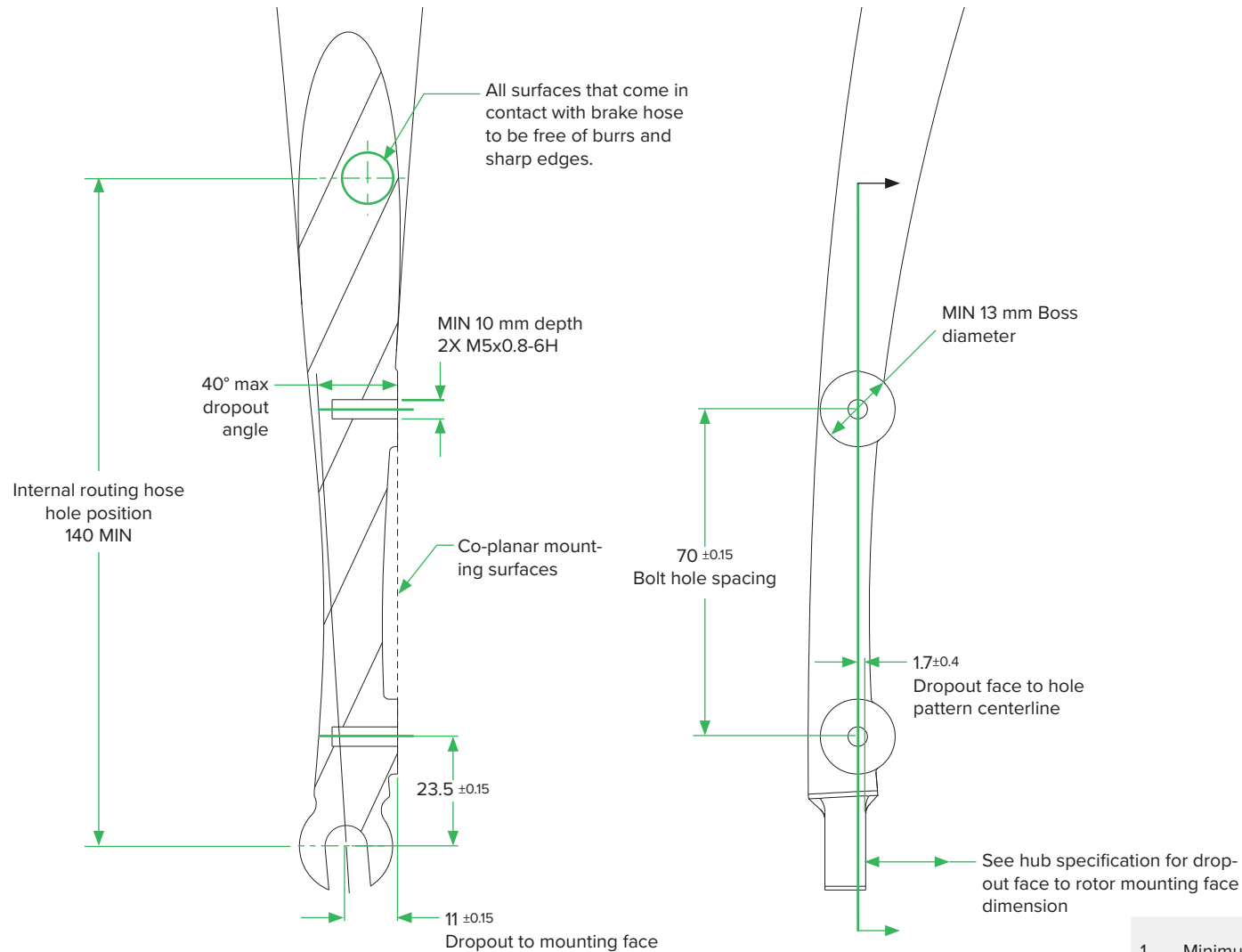
Disc Brake Hose Routing Specification



- 1 FG (Finished Good) hose equals the hose length from the end of the handlebar 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 $\text{Ø}5.1$ 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.**

Flat Mount Fork Specification

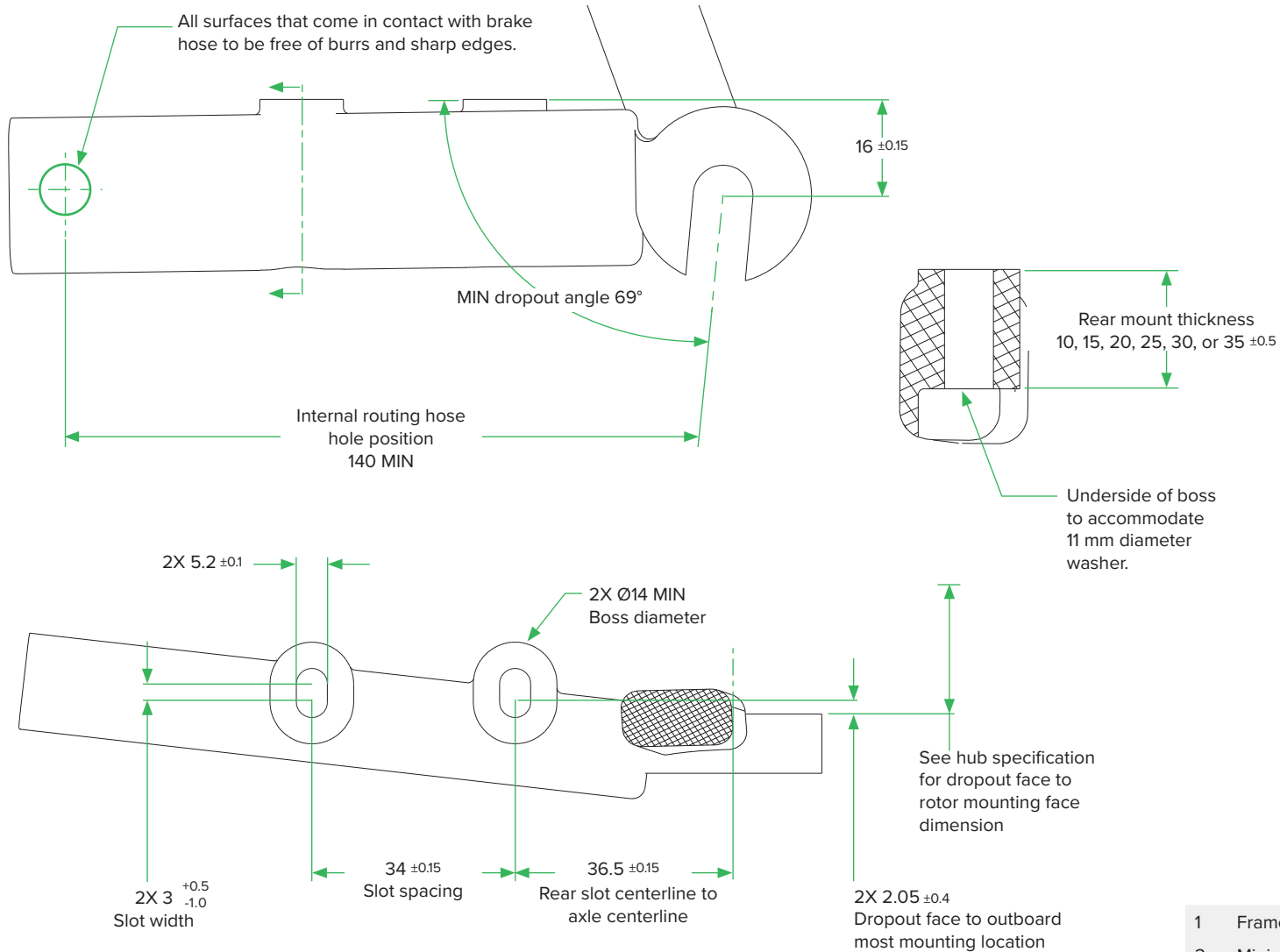
All SRAM Flat Mount Calipers



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

Flat Mount Frame Specification

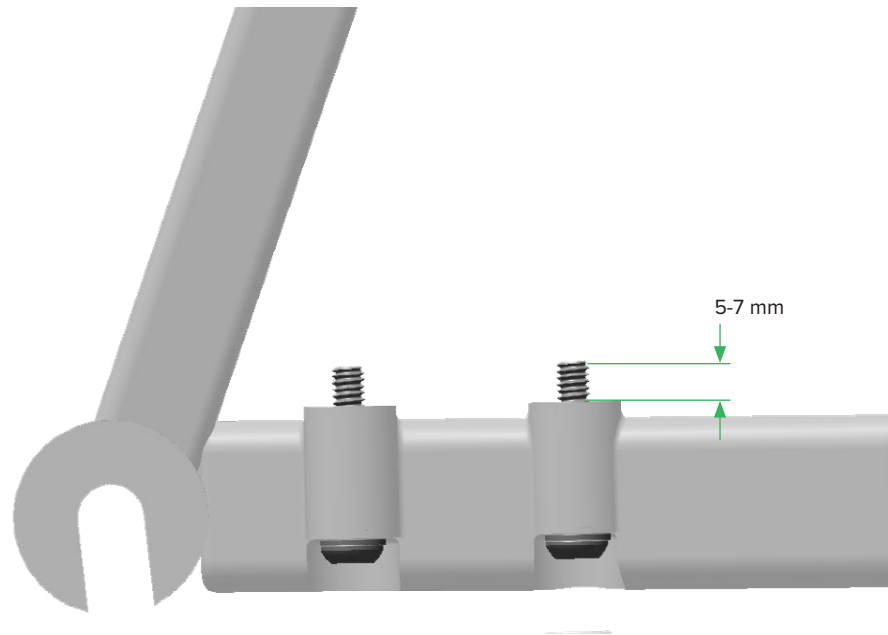
All SRAM Flat Mount Calipers



- 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 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.

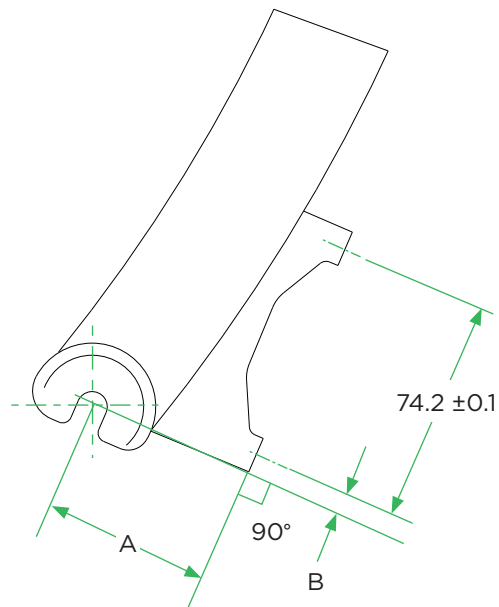
1 Available in rear bolt lengths: 17, 22, 27, 32, 37, and 42 mm

Post Mount Fork Specification

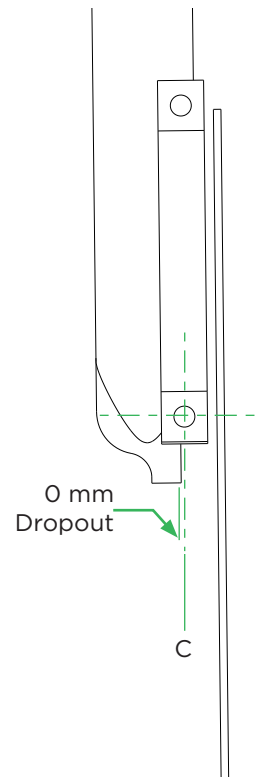
All SRAM Post Mount Calipers

| 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

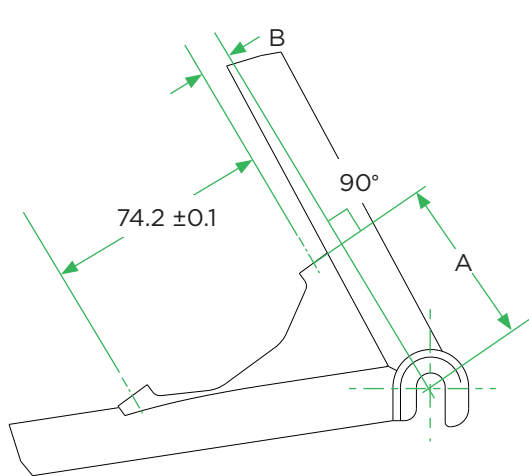


Post Mount Frame Specification

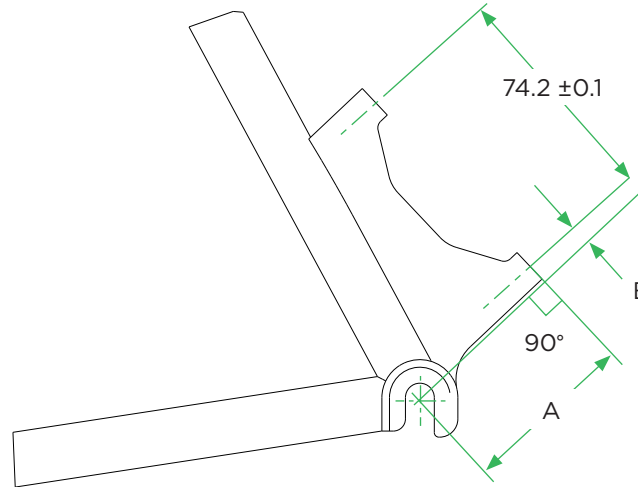
All SRAM Post Mount Calipers

| 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 | | |

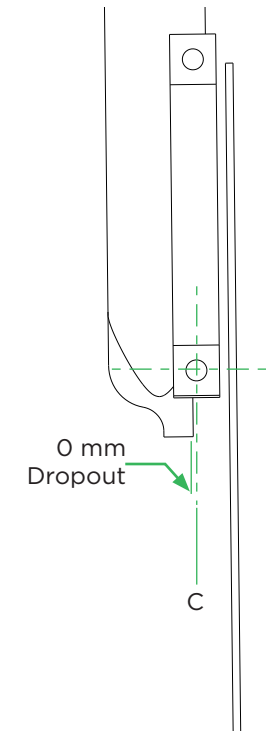
Chainstay Mount



Seatstay Mount



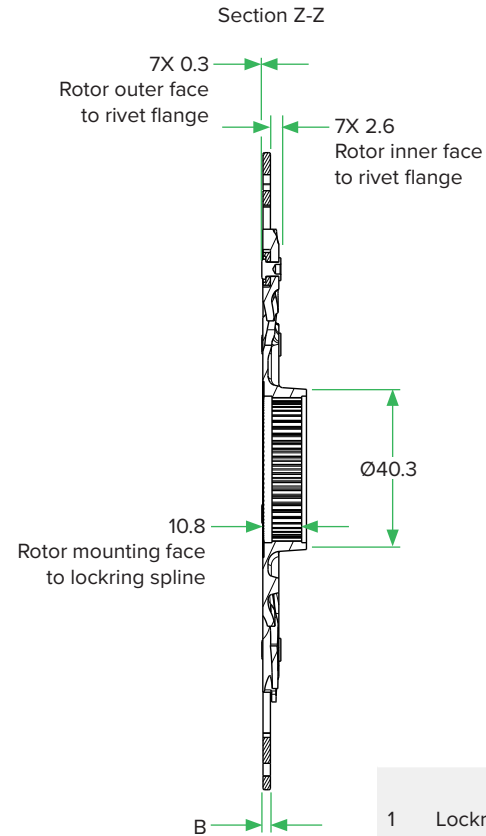
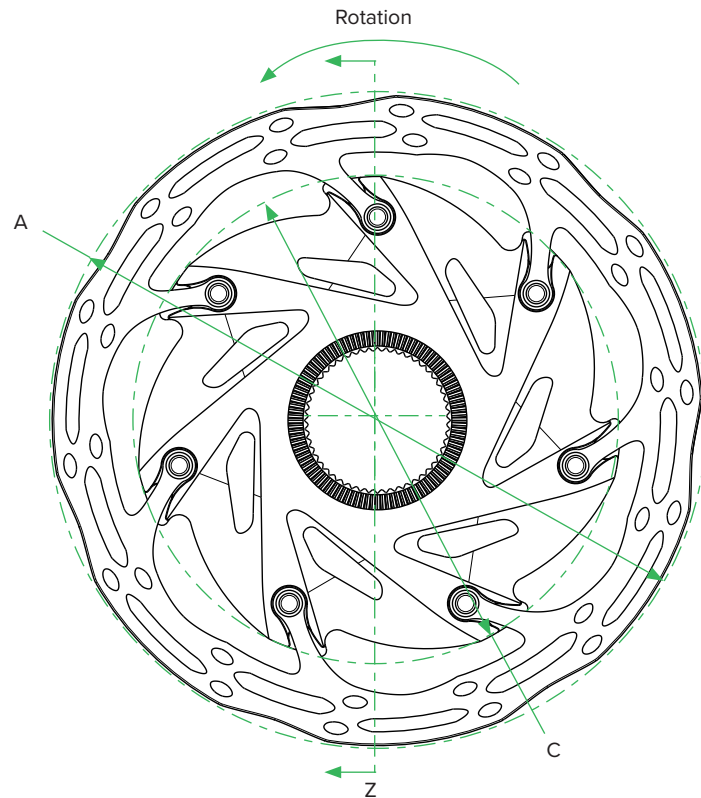
Frame Mount Dropout



SRAM CenterLine XR

Two-piece Center Locking Rotor Dimensions

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

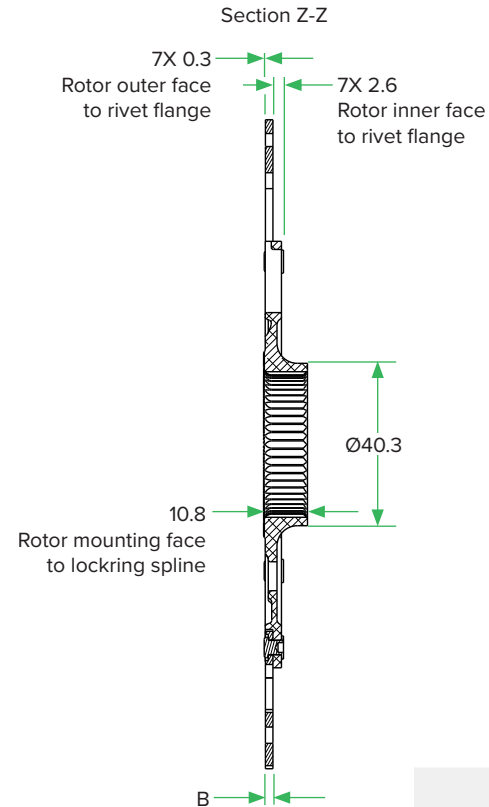
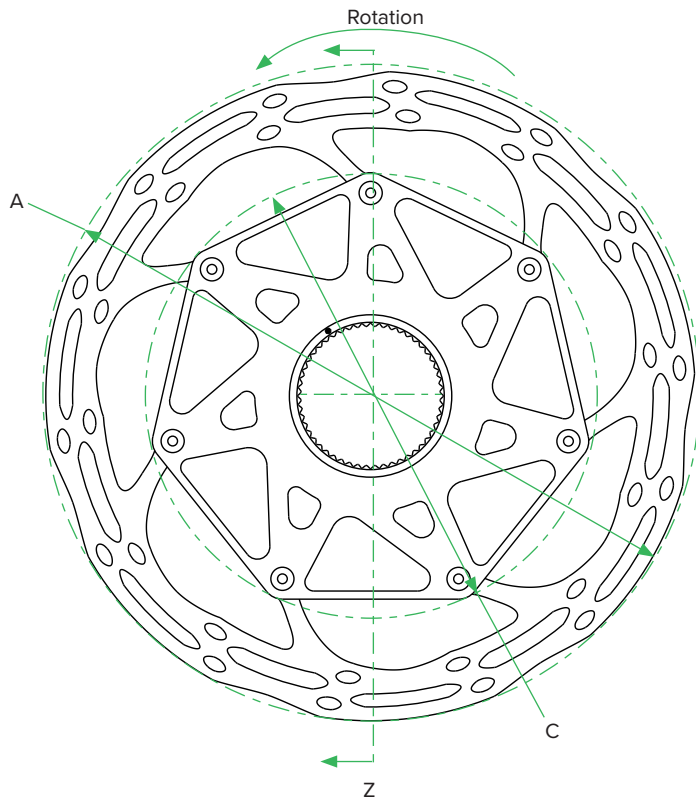


1 Locking torque to 40 N-m (354 in-lb).

SRAM CenterLine X

Two-piece Center Locking Rotor Dimensions

| Rotor | Rotor Size | Radiused 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 |

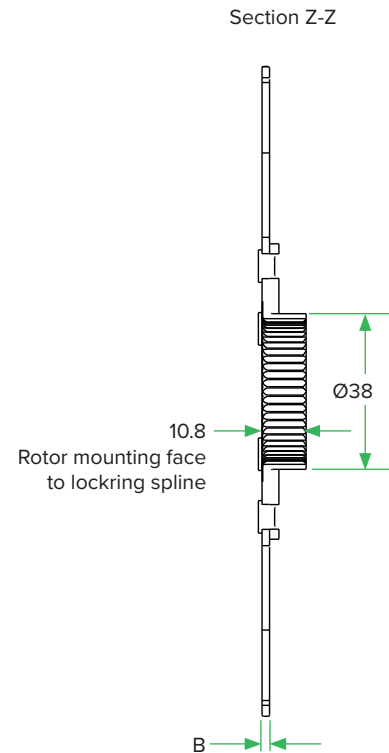
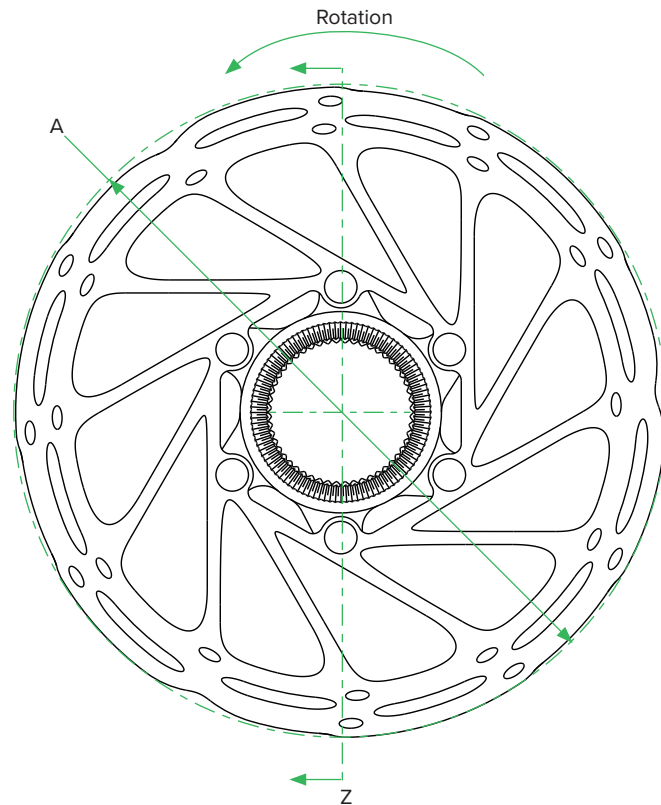


1 Lockring torque to 40 N-m (354 in-lb).

SRAM CenterLine/ SRAM Paceline

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 | |

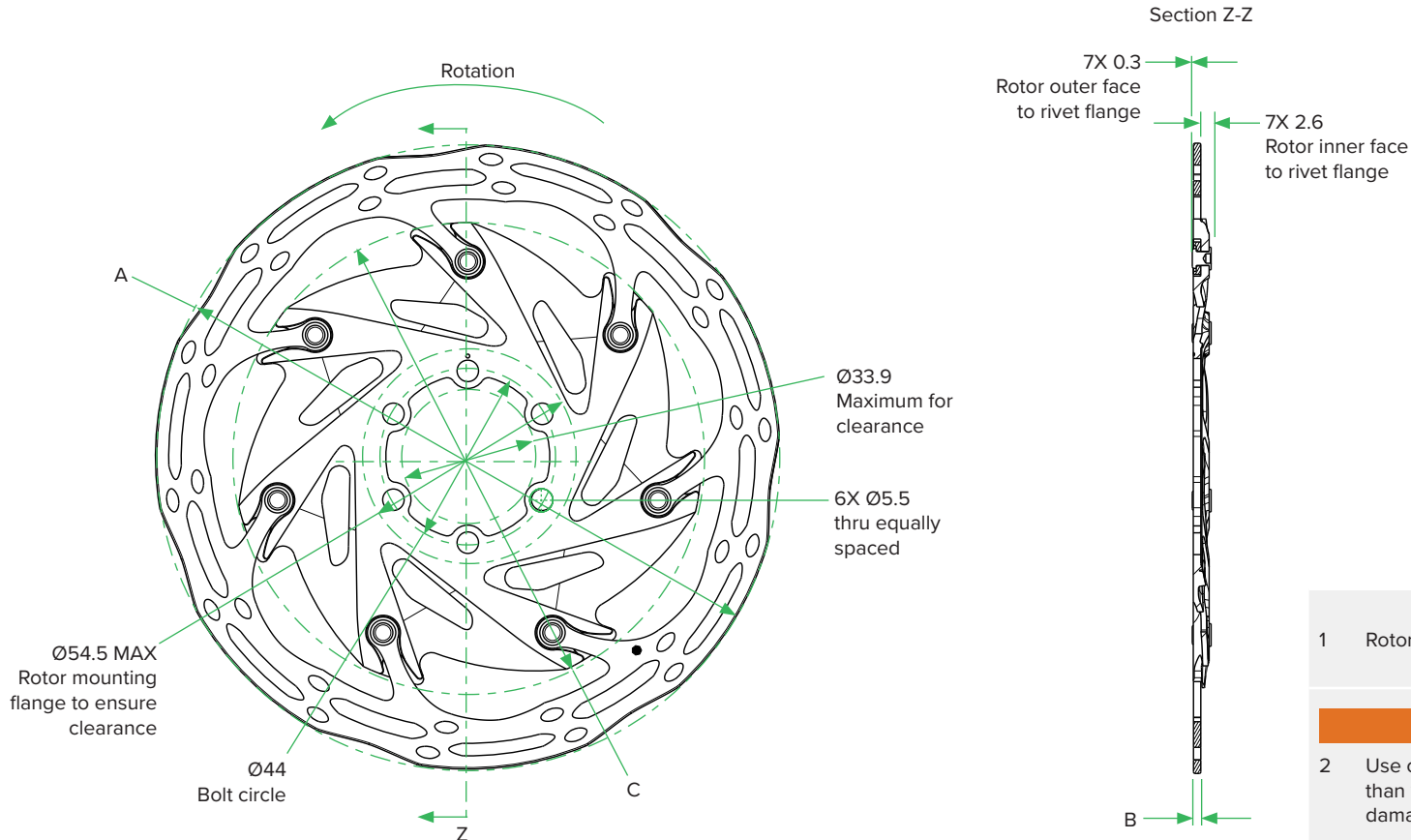


1 Locking torque to 40 N-m (354 in-lb).

SRAM CenterLine XR

Two-piece 6-Bolt Rotor Dimensions

| Rotor | Rotor Size | Radiused 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).

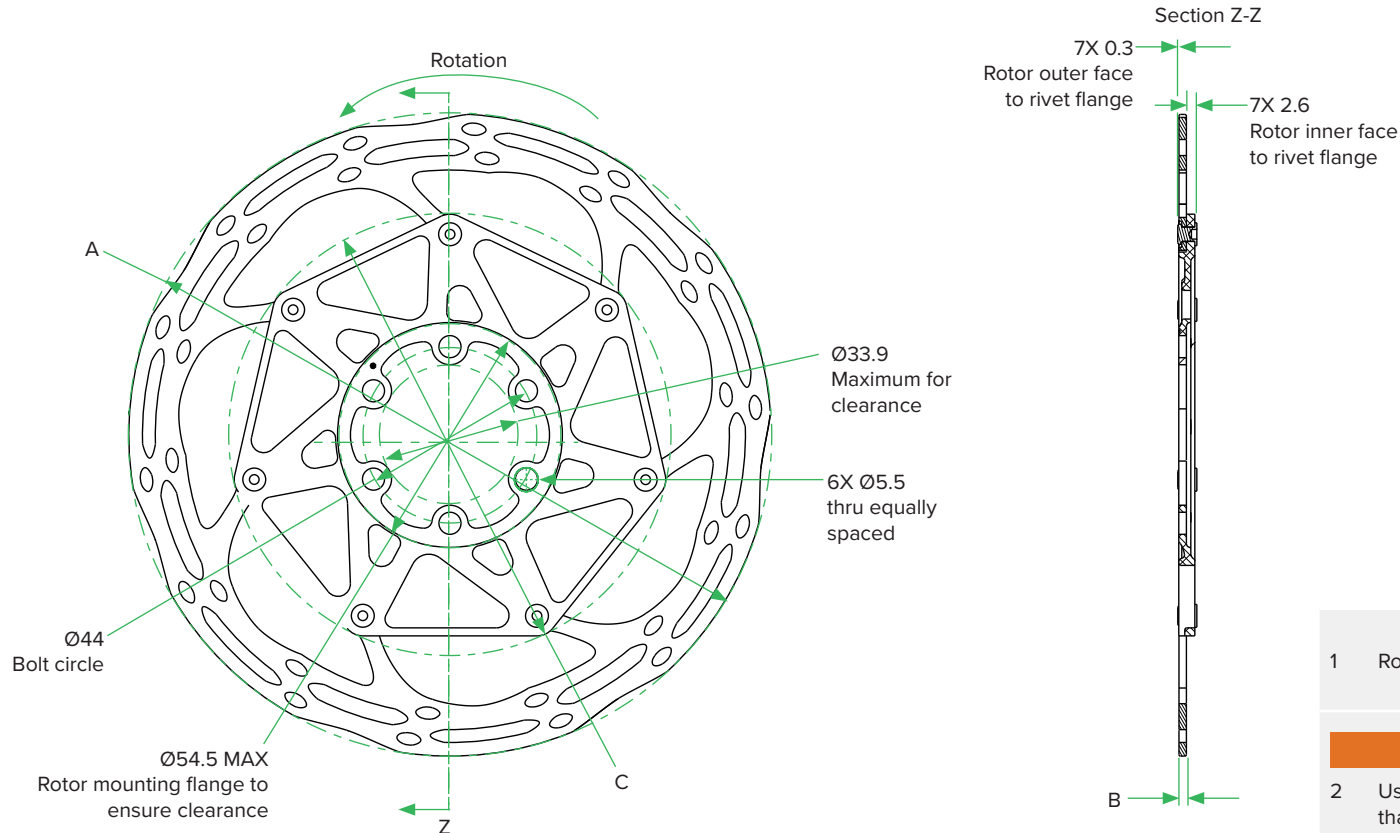
⚠WARNING

- 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 | Radiused 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).

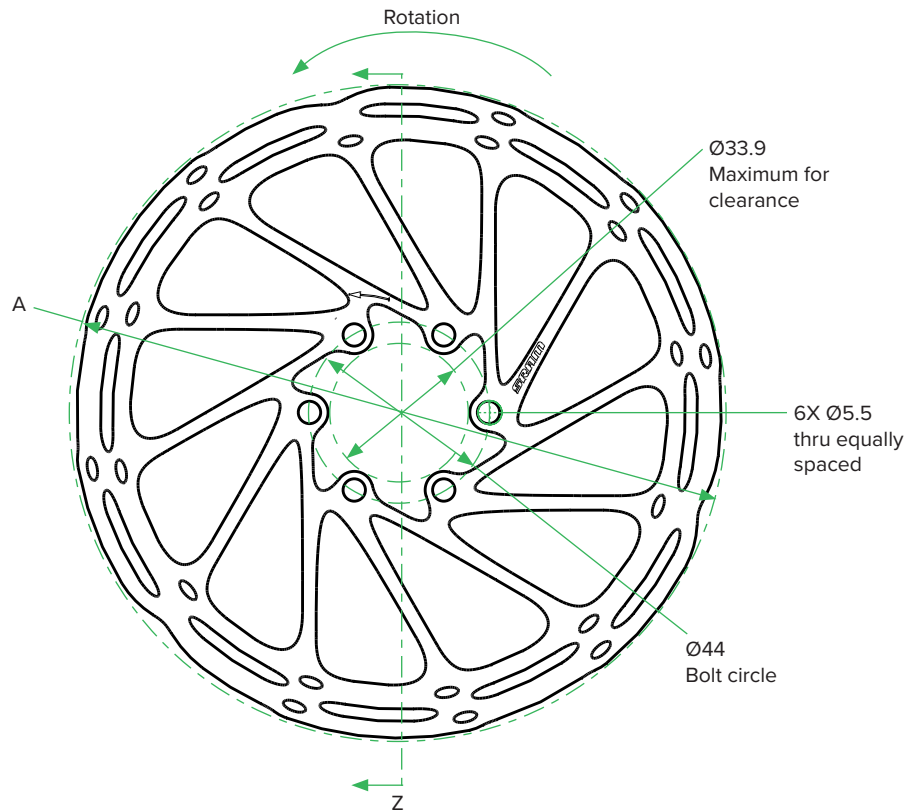
⚠WARNING

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

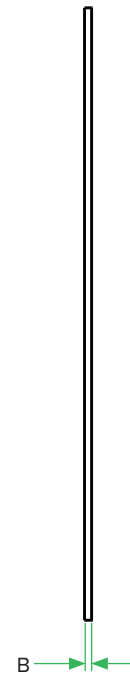
SRAM CenterLine/ SRAM Paceline

One-piece 6-Bolt Rotor Dimensions

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



Section Z-Z



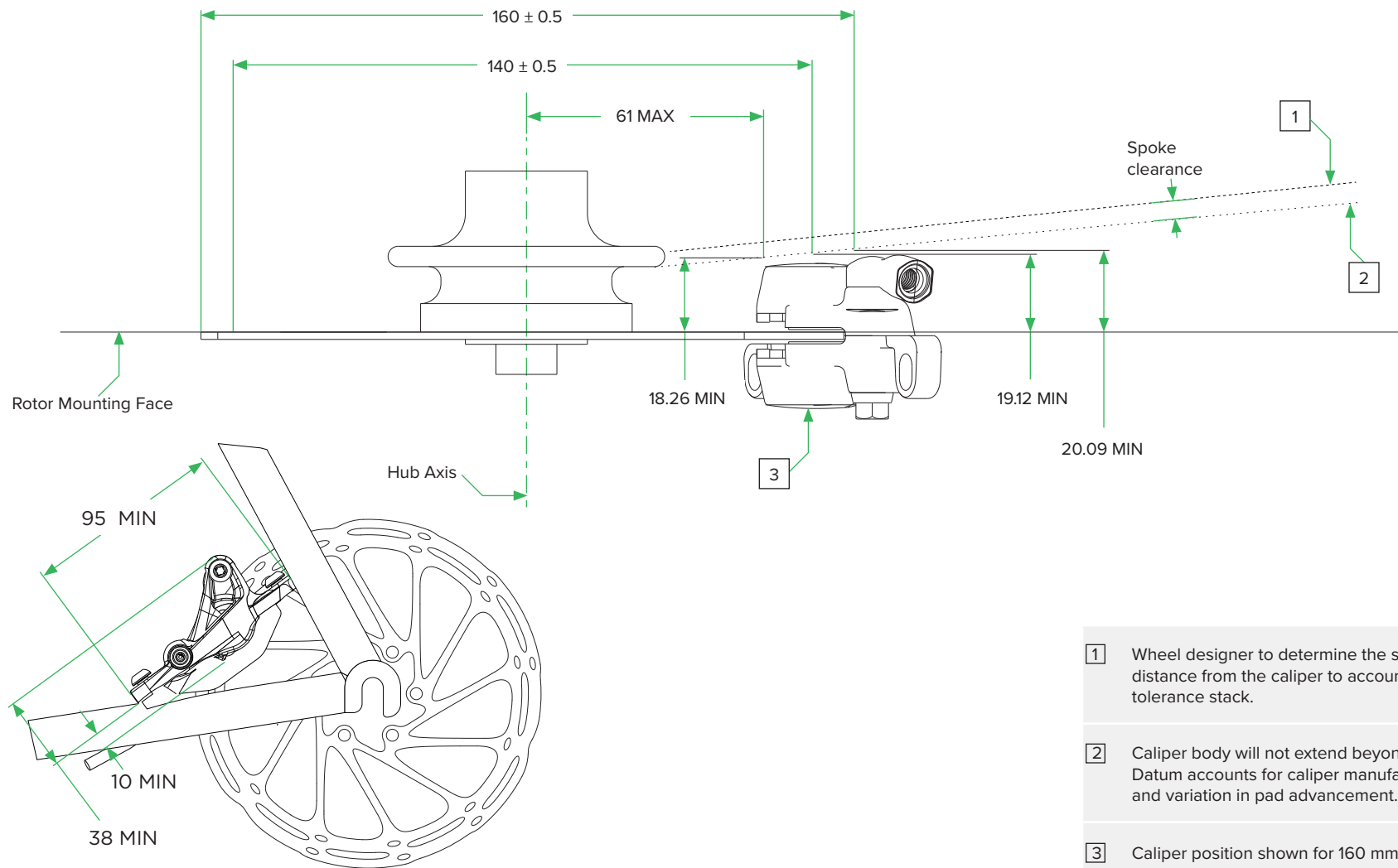
- 1 Rotor mounting bolt torque value is 6.2 N-m (55 in-lb).

⚠ 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

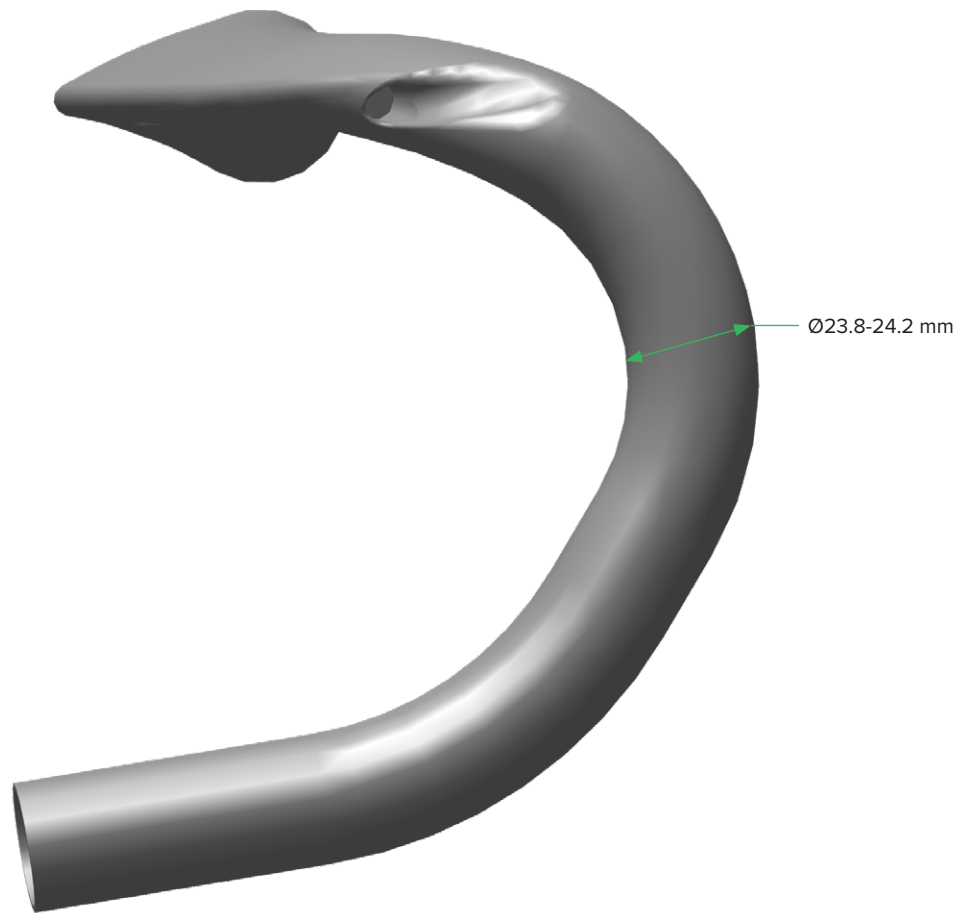
Road Disc Brakes



- 1 Wheel designer to determine the safe clearance distance from the caliper to account for wheel flex and tolerance stack.
- 2 Caliper body will not extend beyond this datum. Datum accounts for caliper manufacturing tolerances and variation in pad advancement.
- 3 Caliper position shown for 160 mm rotor.

Dropbar Guidelines

All Road Shift-Brakes and Brake Levers

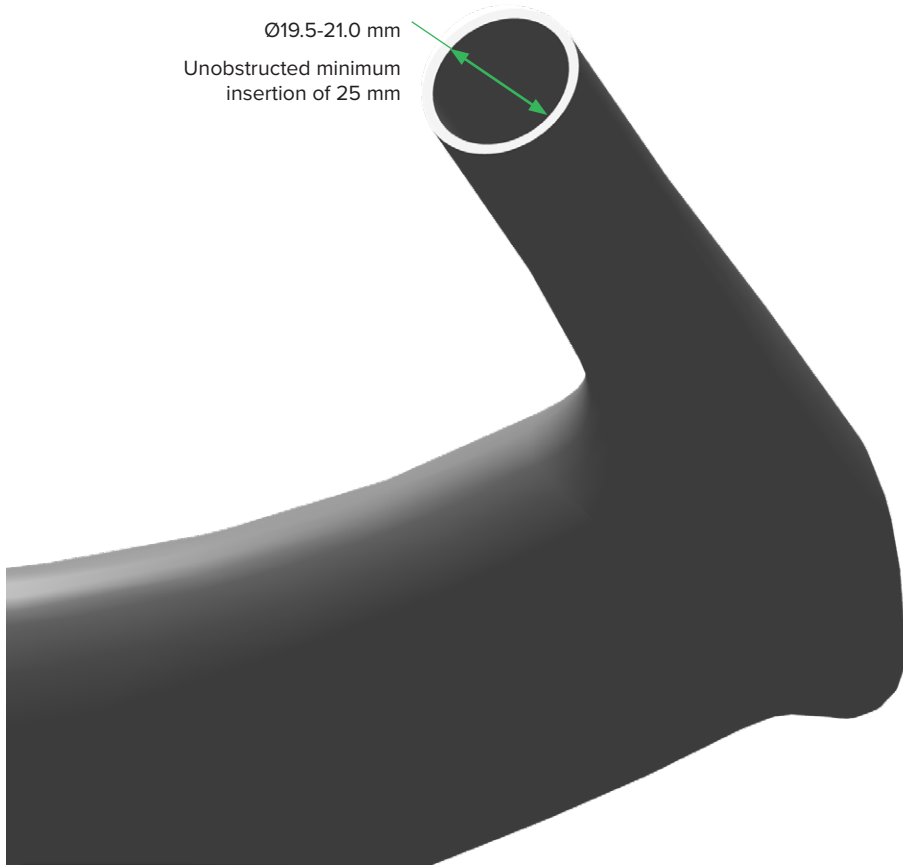


- 1 The cable pull on a HRD brake lever with seat dropper control is 8.8 mm.

S-900 Aero HRD

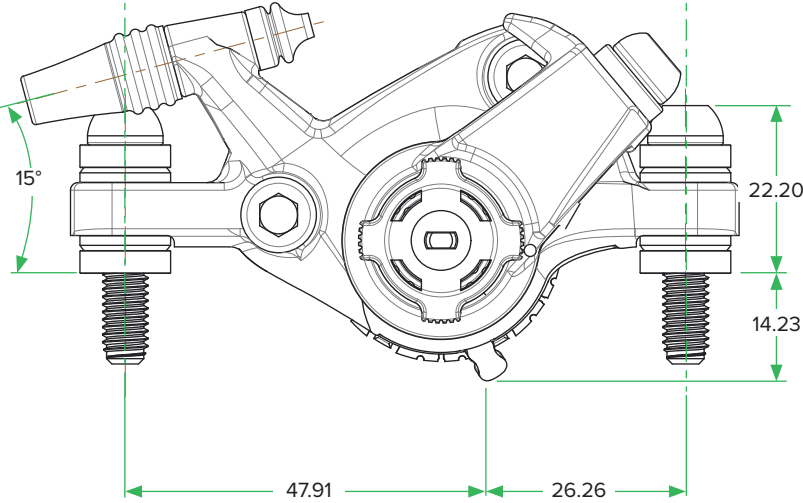
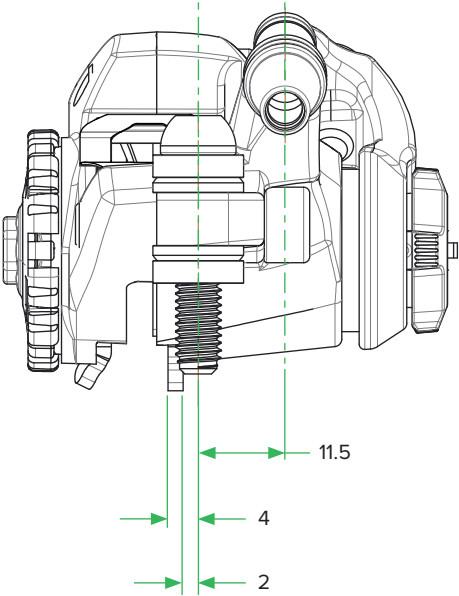
Hydraulic Aero Brake Lever Bar Guidelines

Ø19.5-21.0 mm
Unobstructed minimum
insertion of 25 mm



BB7/ BB5 Road

Mechanical Disc Brake Clearance



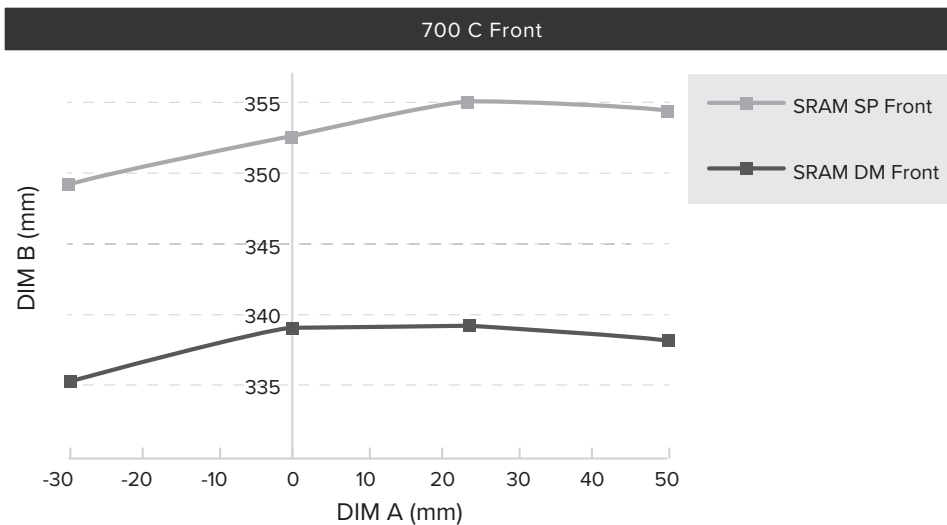
Front Rim Brake Caliper

Direct Mount and Single Pivot Design Dimensions

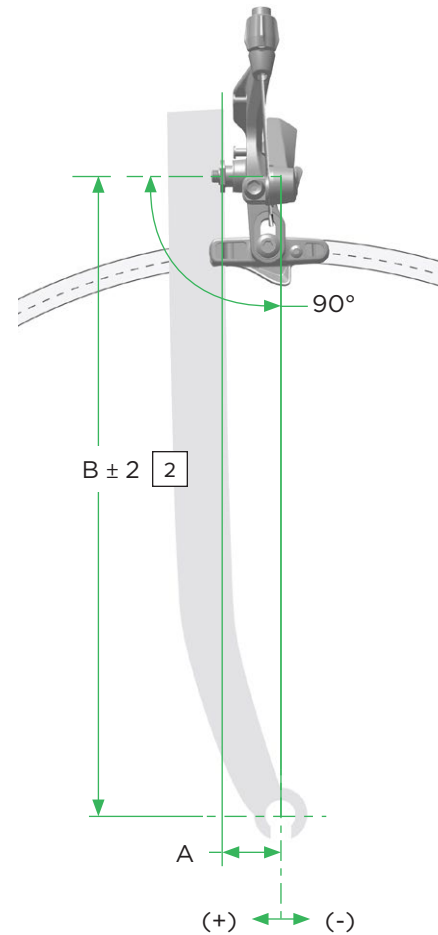
Brake Caliper Pivot Location

| 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 | |

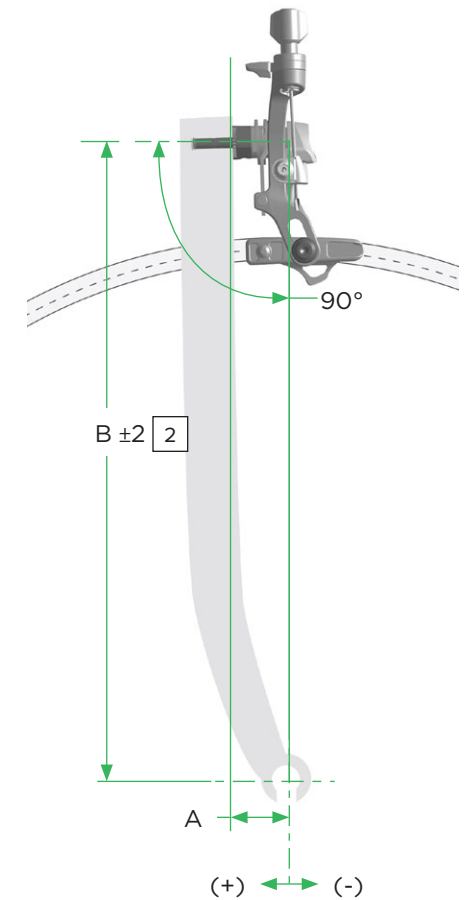
- 1 For increased tire clearance, make mounting features to the + side of the "B" dimension tolerance limit.
- 2 For 650c wheels, subtract 26 mm from the 700c "B" dimensions.
- 3 Mount only to the front side of the fork.



Direct Mount Front Rim Brake Caliper



Single Pivot Front Rim Brake Caliper



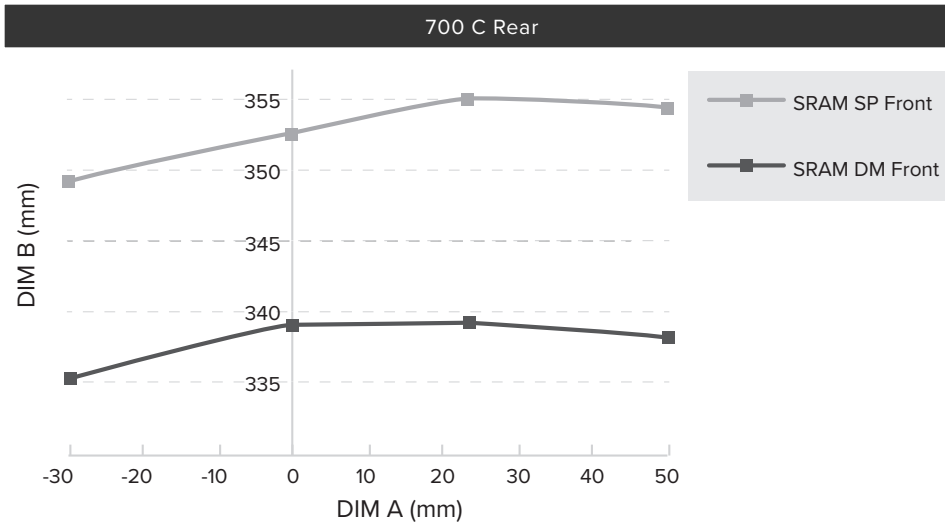
Rear Rim Brake Caliper

Direct Mount and Single Pivot Design Dimensions

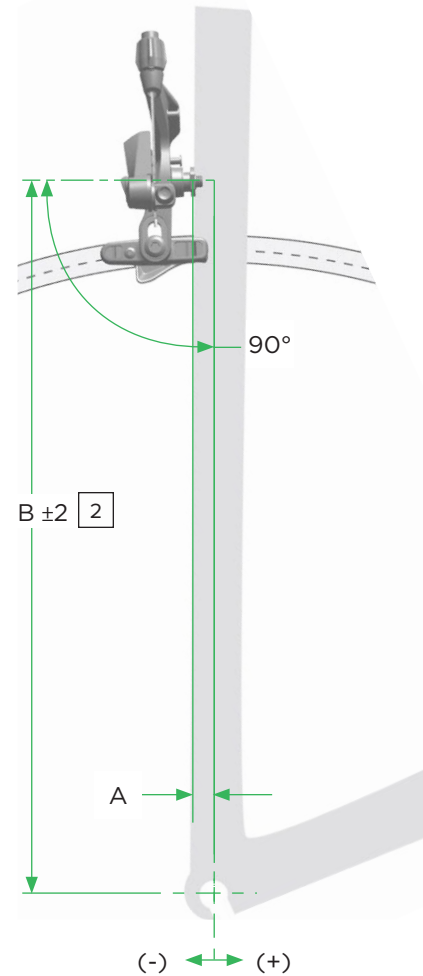
Brake Caliper Pivot Location

| 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 | |

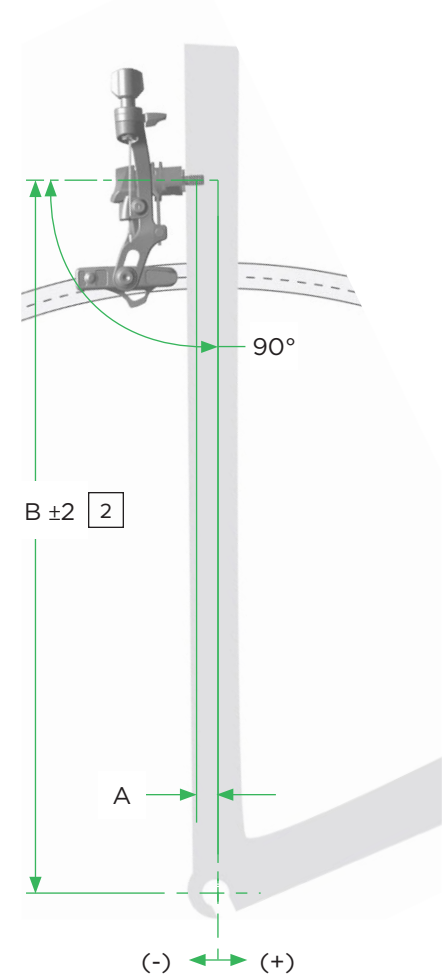
- 1 For increased tire clearance, make mounting features to the + side of the "B" dimension tolerance limit.
- 2 For 650c wheels, subtract 26 mm from the 700c "B" dimensions.
- 3 Mount only to the back side of the seatstay. Do not mount under bottom bracket or on the front side of the seatstay.



Direct Mount Rear Rim Brake Caliper

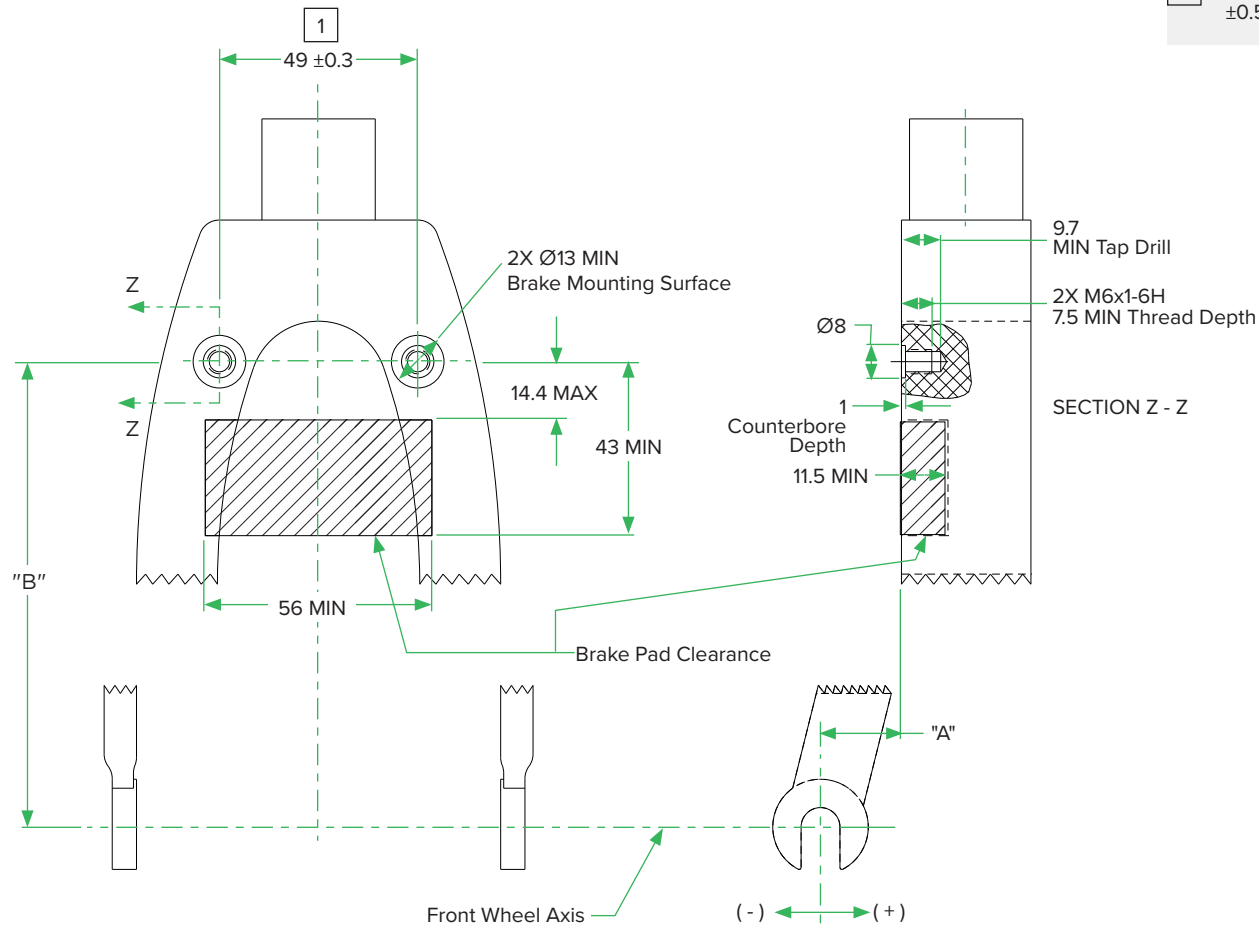


Single Pivot Rear Rim Brake Caliper



Front Direct Mount

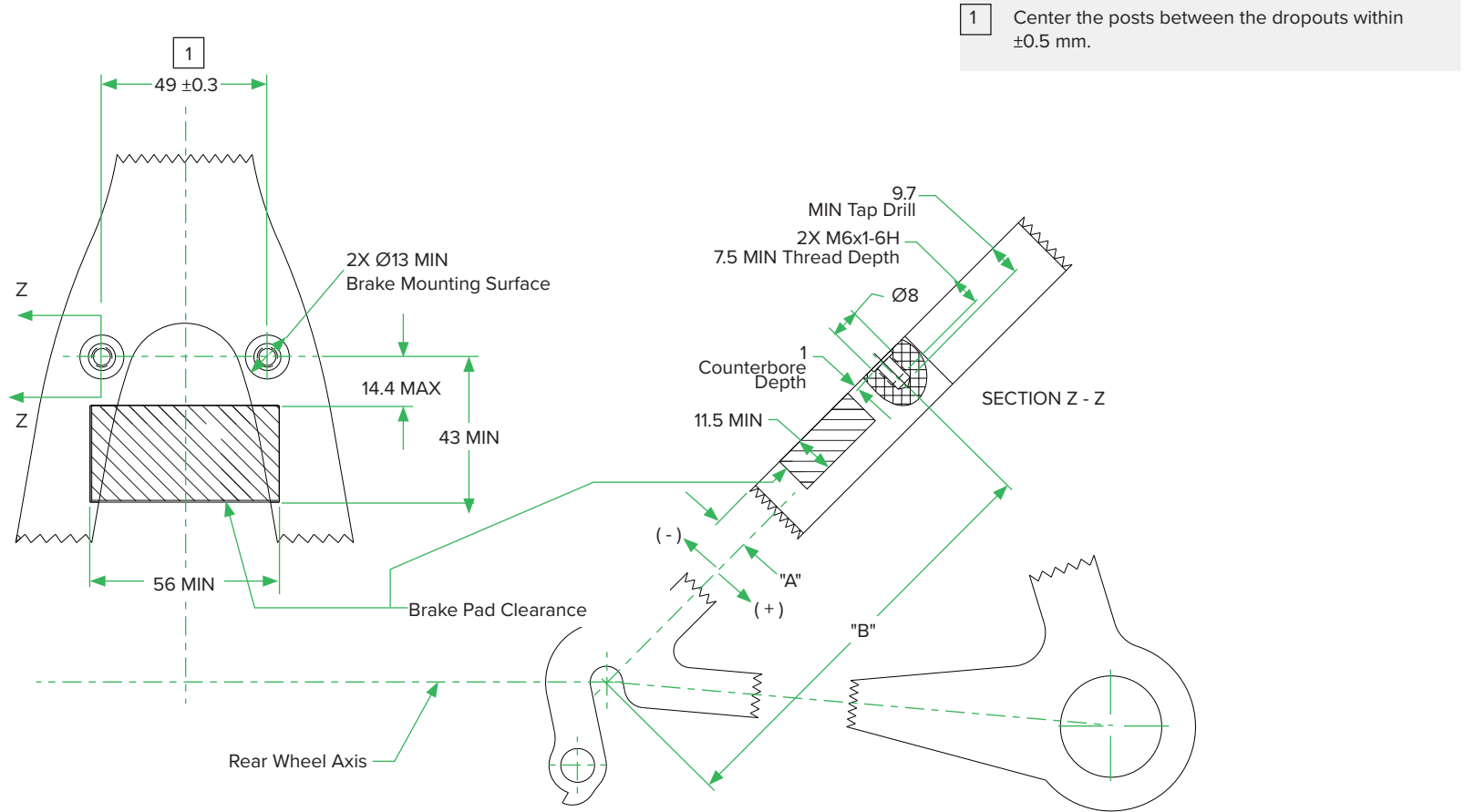
Mounting Dimensions



1 Center the posts between the dropouts within ± 0.5 mm.

Rear Direct Mount

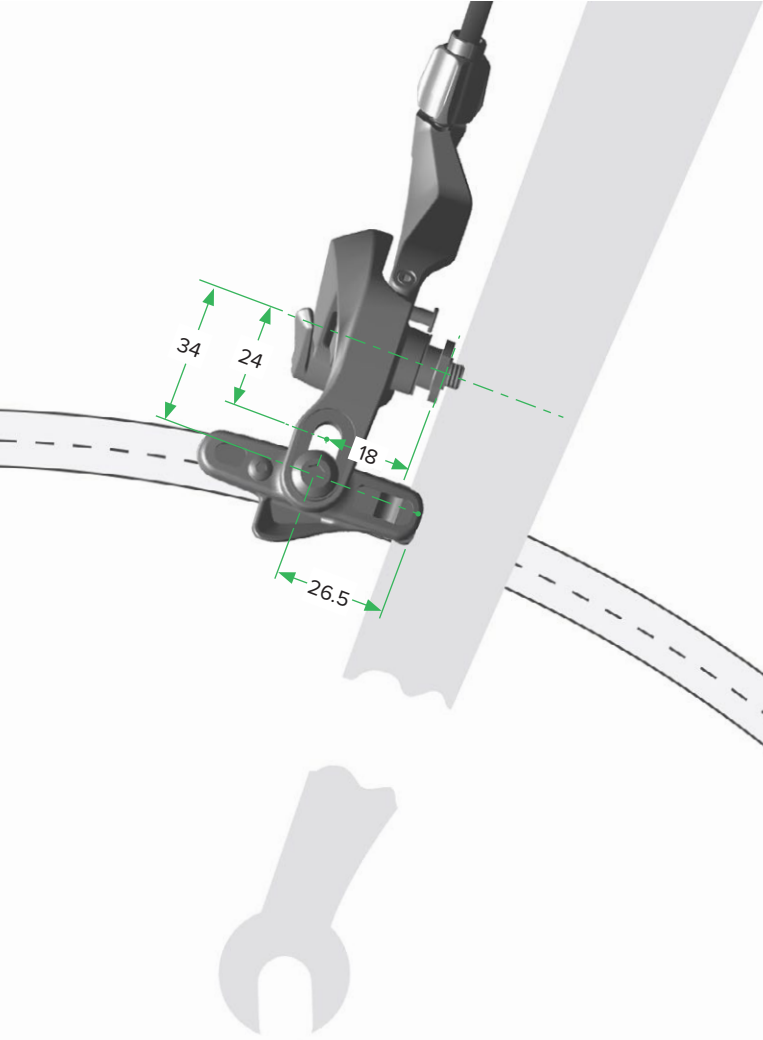
Mounting Dimensions



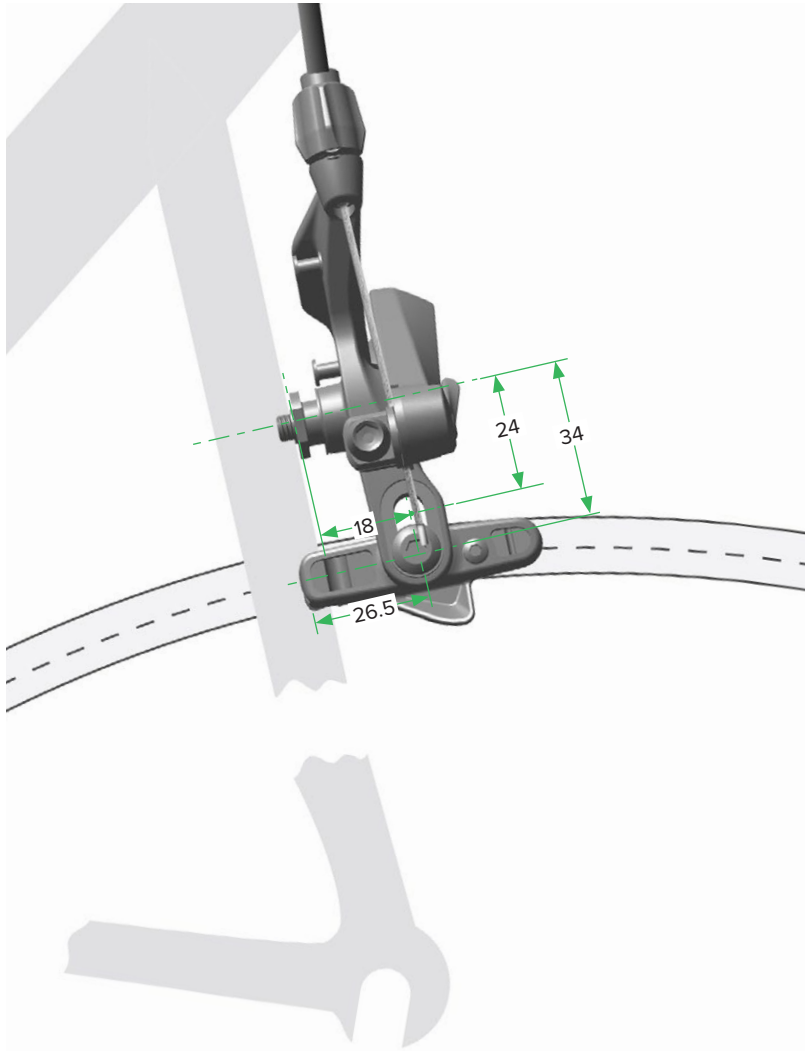
Direct Mount

Rim Brake Caliper Design Dimensions

Front Rim Brake Caliper



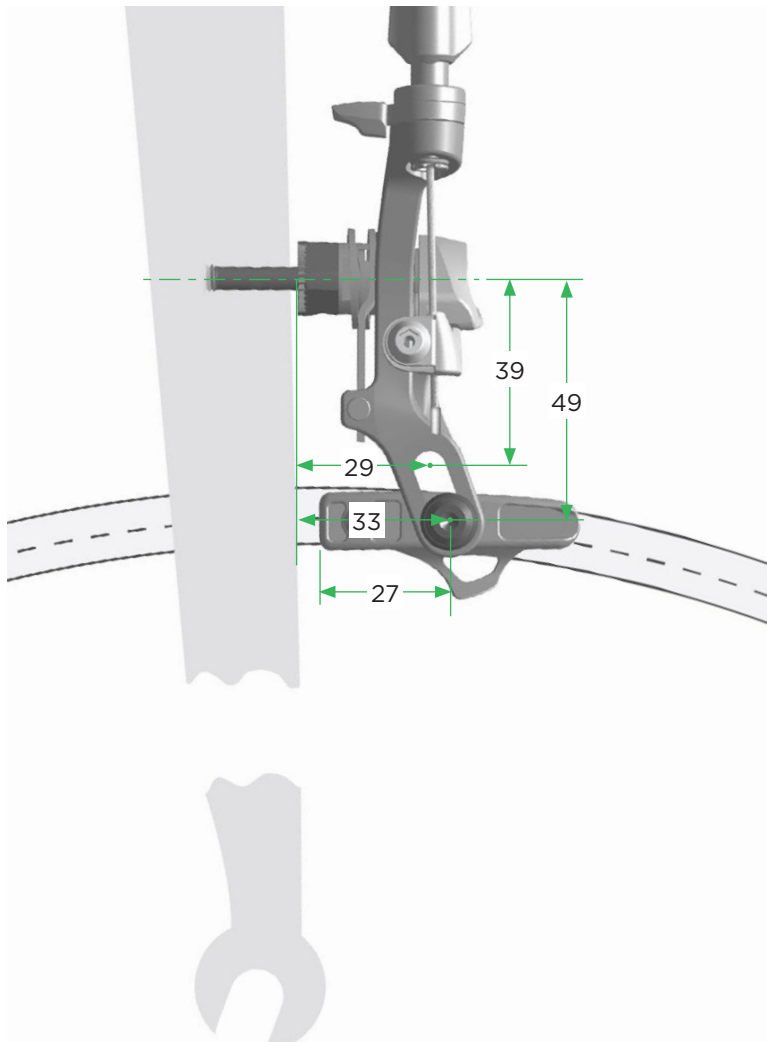
Rear Rim Brake Caliper



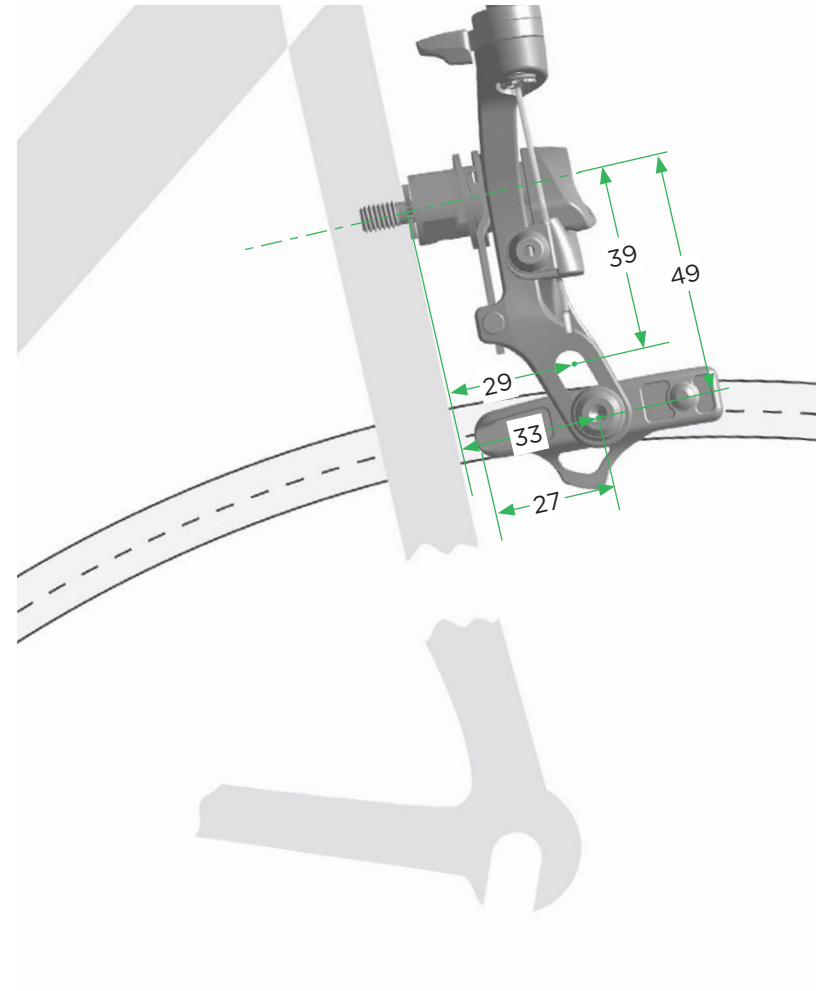
Single-Post Mount

Rim Brake Caliper Design Dimensions

Front Rim Brake Caliper



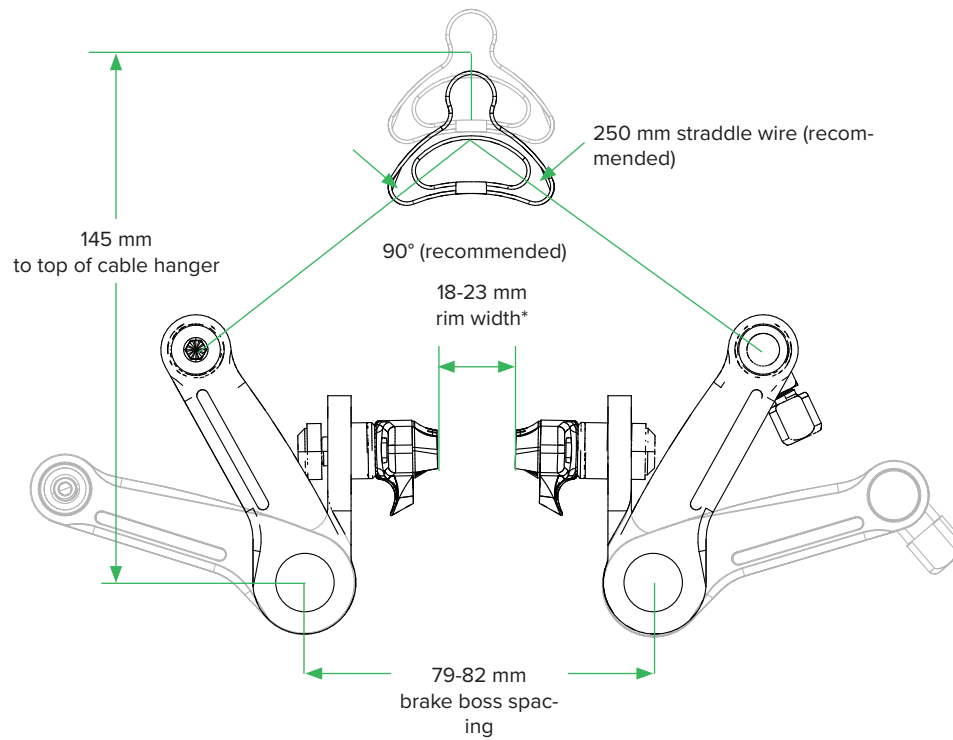
Rear Rim Brake Caliper



Shorty Ultimate

Dual Mounted Brake Caliper

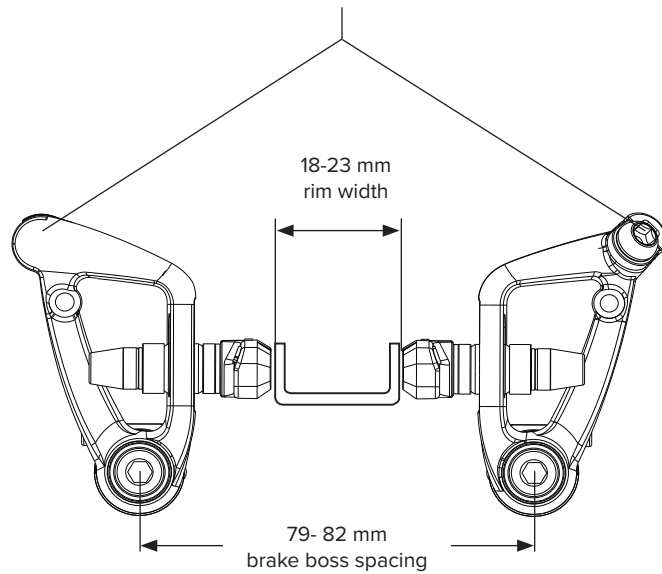
1 For wheel rims wider than 23 mm, consult the spare parts catalog on www.sram.com/service for part numbers.



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 |

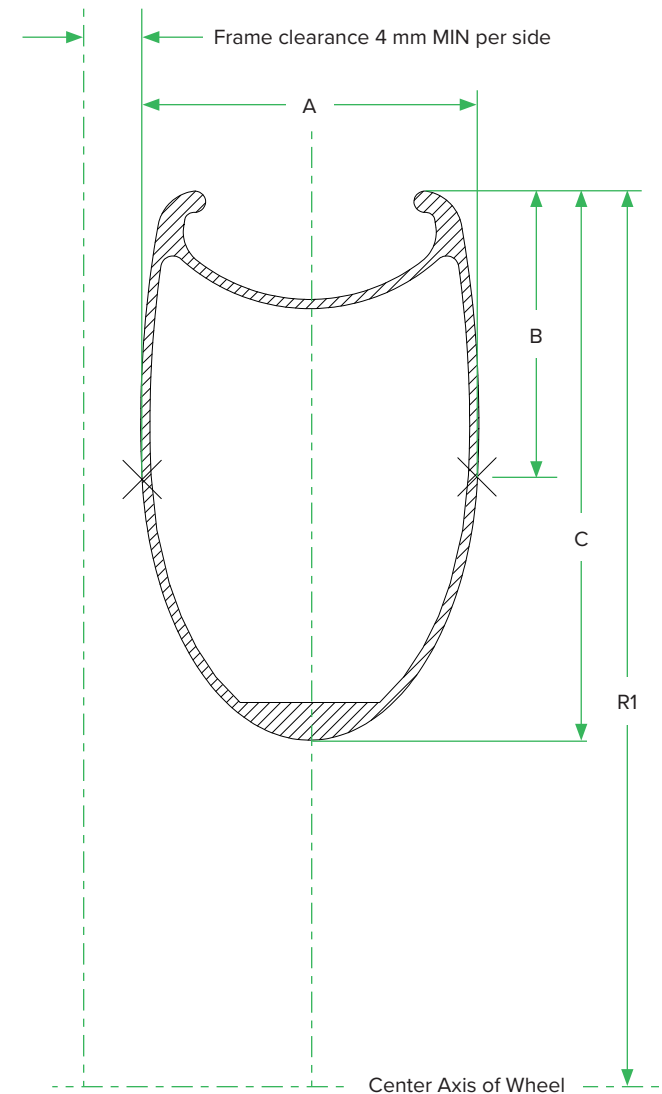


Wheels and Hubs

Zipp Wheels

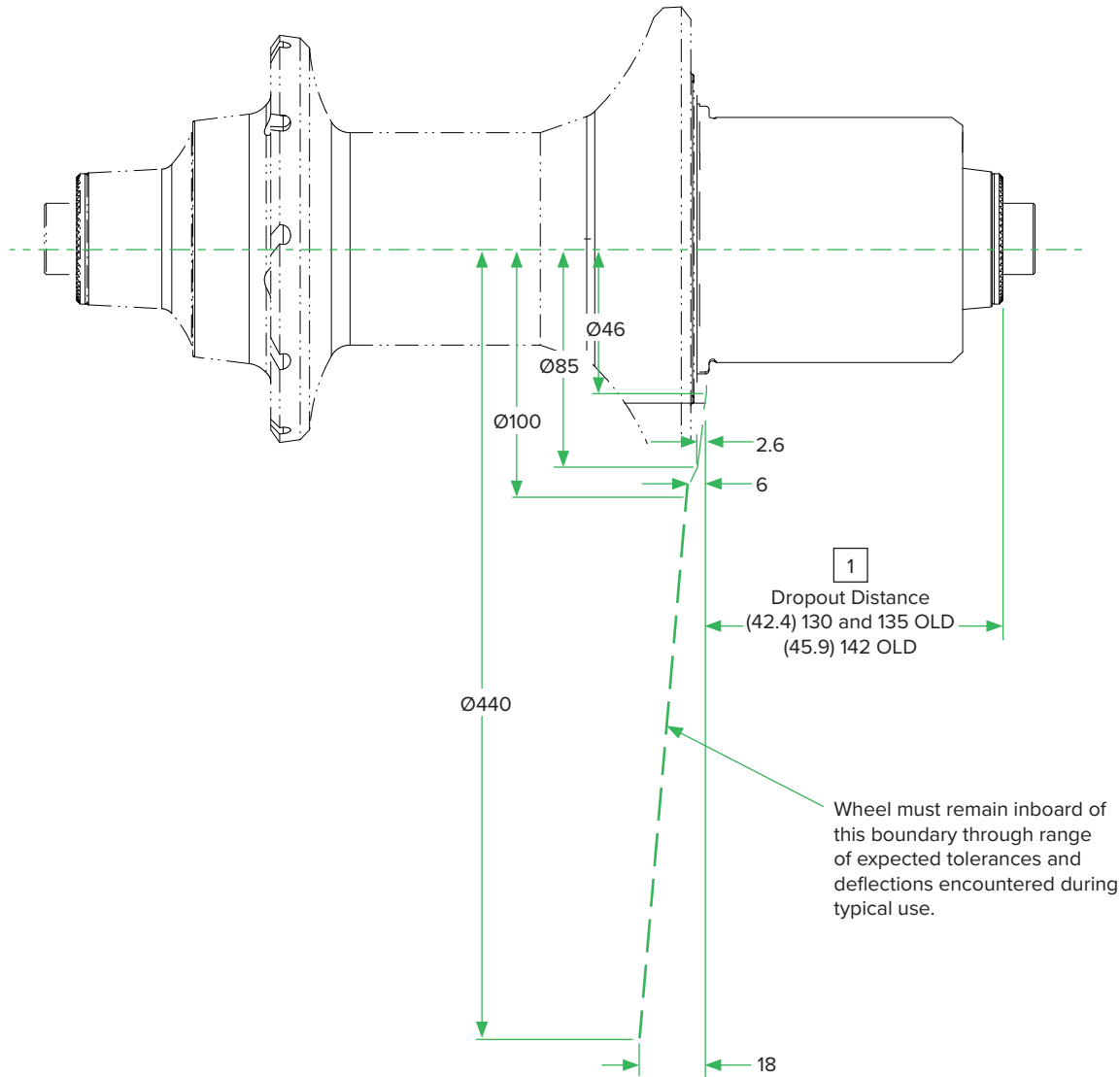
Rim/Disc Design Parameters

| | 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 | | | | |



Rear Derailleur Wheel Spoke Clearance

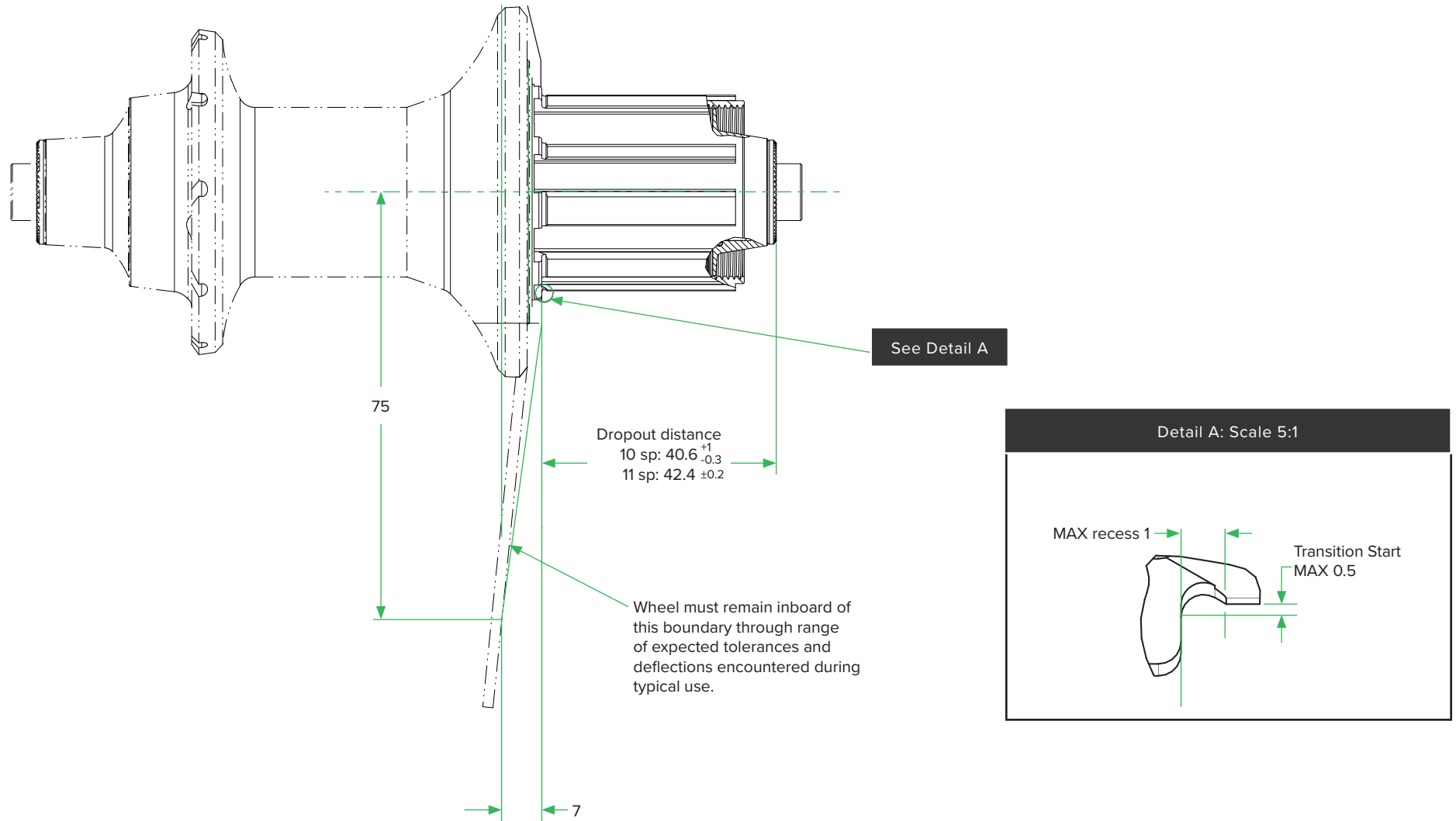
XDR



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

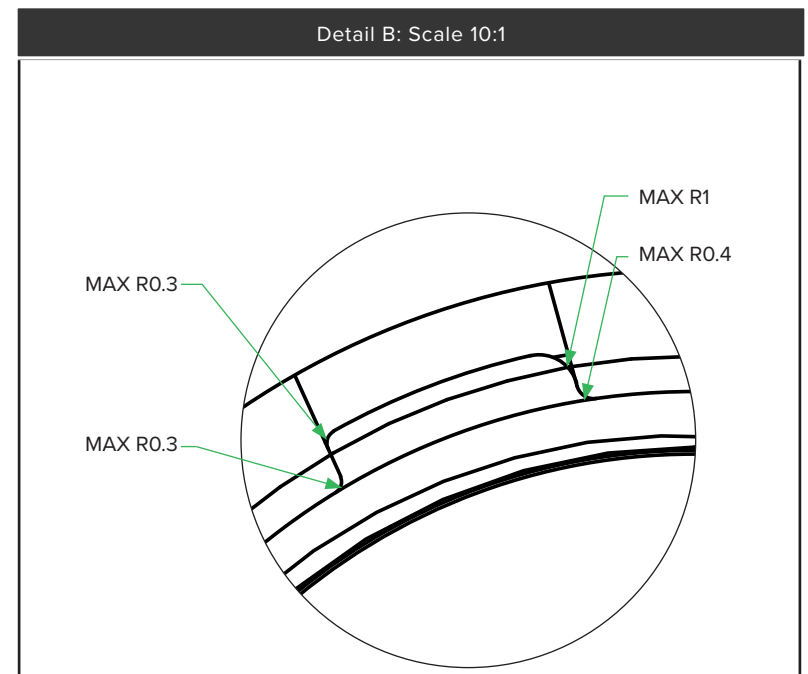
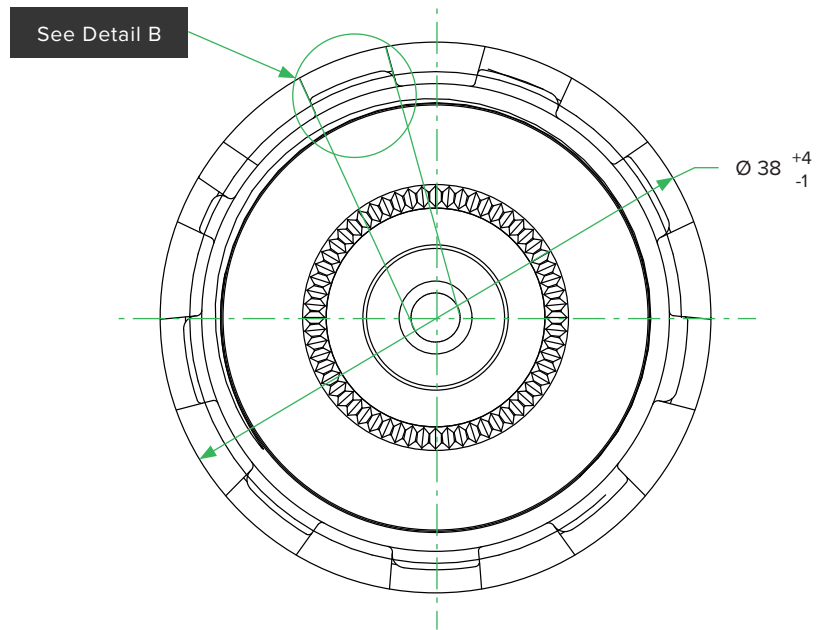
Driver and Wheel Standard

10 and 11 speed



Driver and Wheel Standard

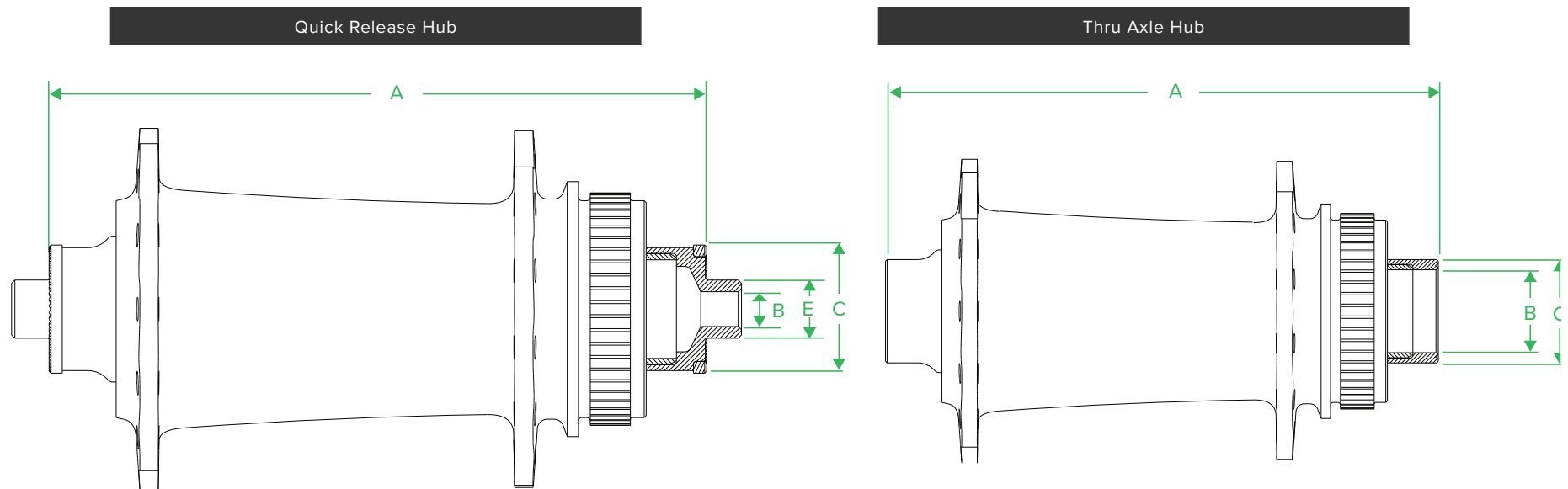
10 and 11 speed



Zipp Hubs with Center Locking Disc Brake Mount

Front Hub Specifications

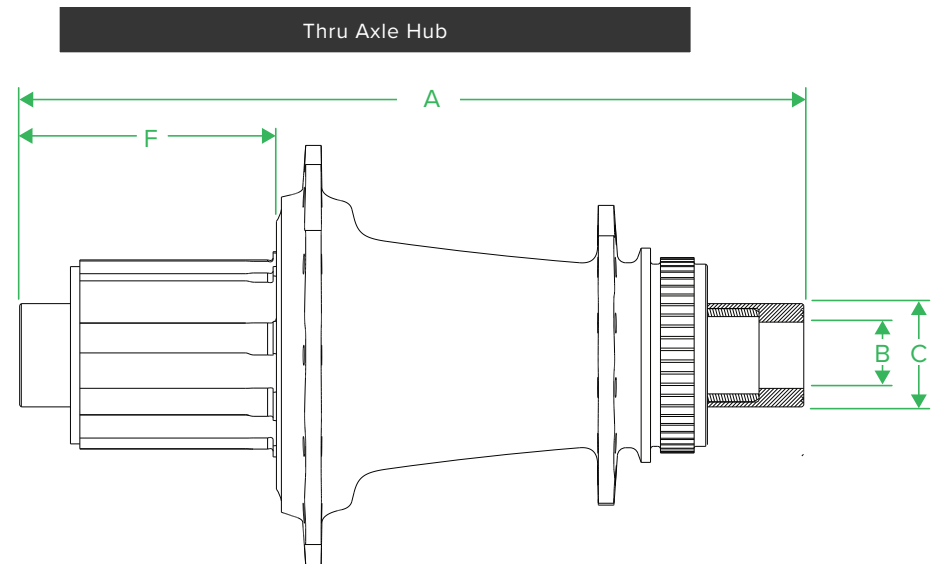
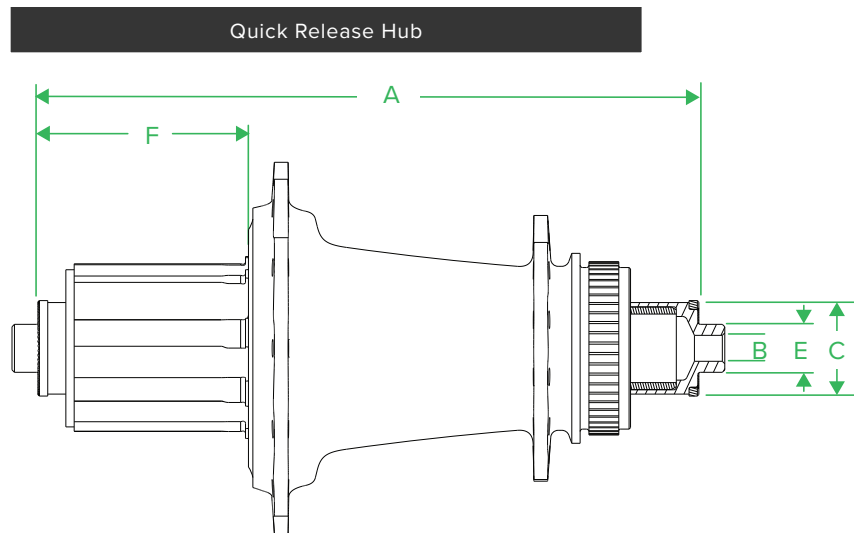
| | A (mm) | B (mm) | C (mm) | E (mm) |
|------------------------|--------------|--------------|--------------|---------------|
| 9x10 Quick Release Hub | 100.0 ± 0.75 | Ø 5.3 ± 0.1 | Ø 19.5 ± 0.1 | Ø 8.85 ± 0.05 |
| 12x100 Thru Axle Hub | | Ø 12.0 ± 0.1 | Ø 18.7 ± 0.1 | N/A |
| 15x100 Thru Axle Hub | | Ø 15.0 ± 0.1 | | |



Zipp Hubs with Center Locking Disc Brake Mount

Rear Hub Specifications

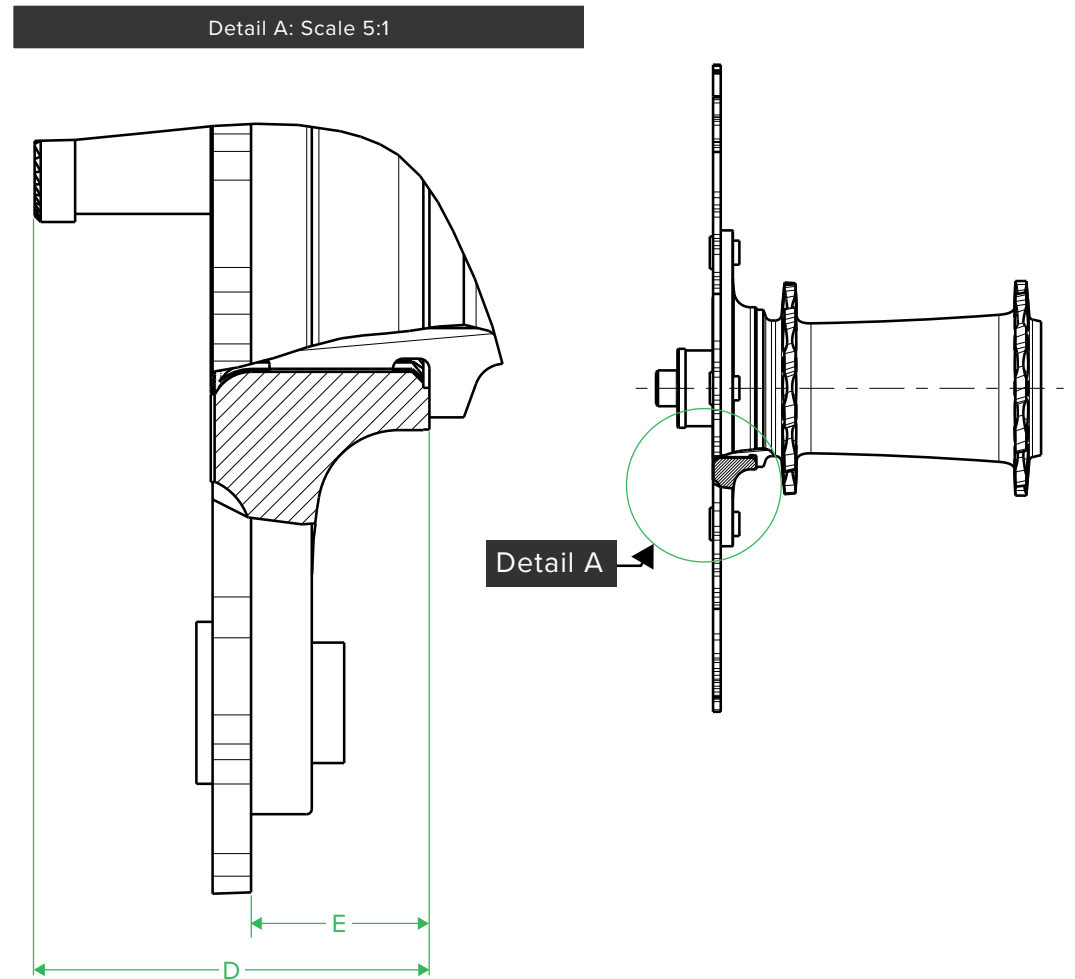
| | A (mm) | B (mm) | C (mm) | E (mm) | F (mm) |
|--------------------------|-------------|--------------|--------------|---------------|------------|
| 10x135 Quick Release Hub | 135.0 ± 0.5 | Ø 5.3 ± 0.1 | Ø 19.5 ± 0.1 | Ø 9.85 ± 0.05 | 42.4 ± 0.2 |
| 12x135 Thru Axle Hub | | Ø 12.0 ± 0.1 | Ø 18.7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



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 | 19.5 | | 8.5 | 9.0 |
| 12x100 Thru Axle Hub | | | | |
| 15x100 Thru Axle Hub | | | | |
| 10x135 Quick Release Hub | 24.25 | | | |
| 12x135 Thru Axle Hub | 27.25 | | | |
| 12x142 Thru Axle Hub | | | | |

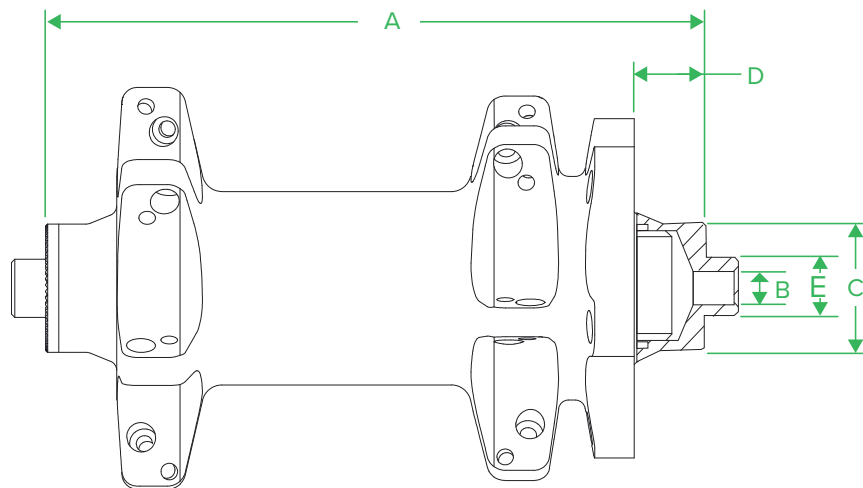


Zipp Hubs with ISO 6 Bolt Disc Brake Mount

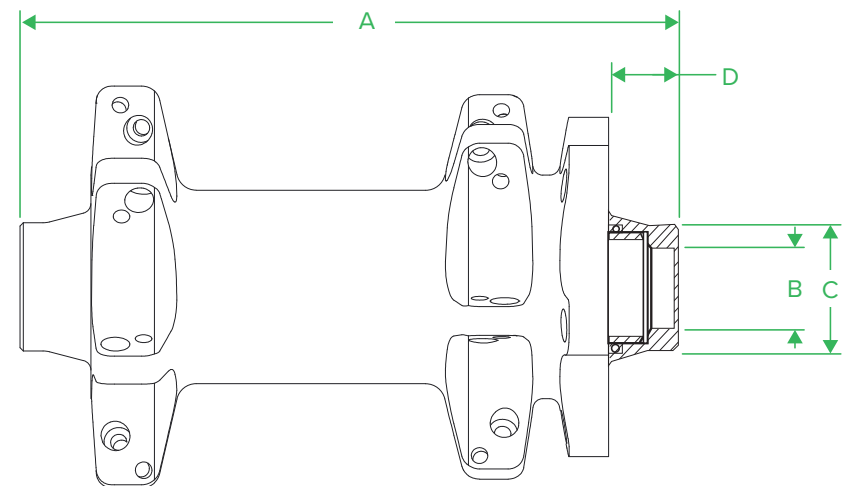
Front Hub Specifications

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

Quick Release Hub



Thru Axle and Thru-bolt Hub

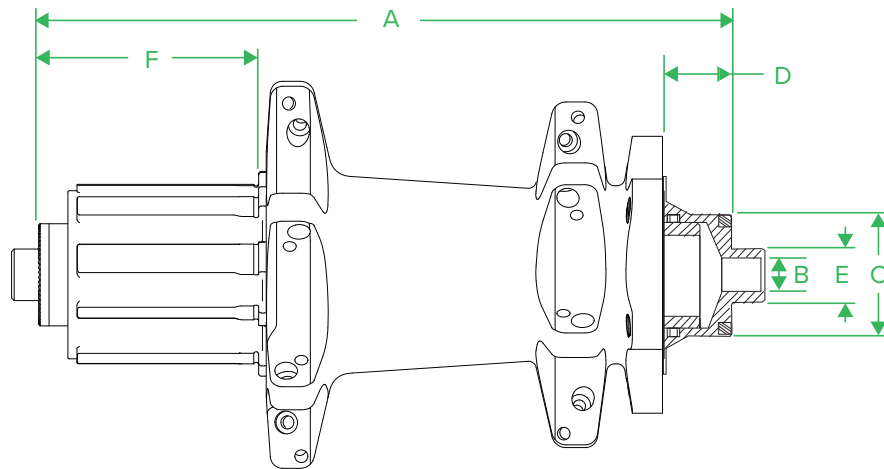


Zipp Hubs with ISO 6 Bolt Disc Brake Mount

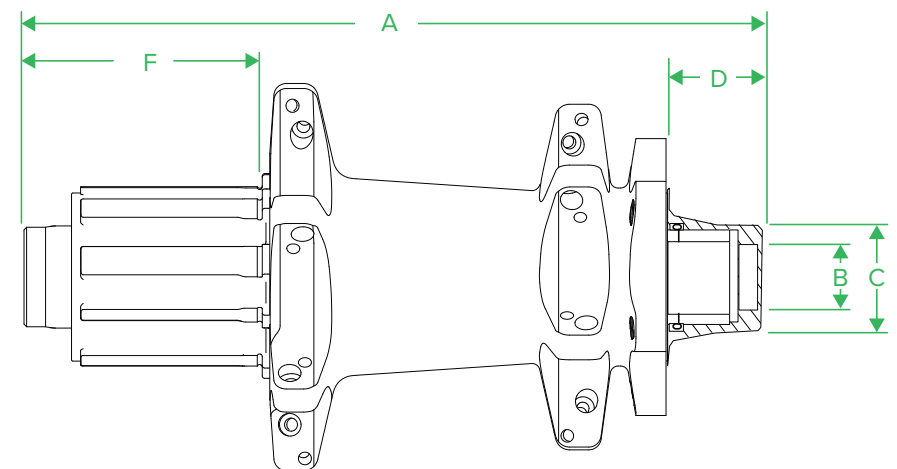
Rear Hub Specifications

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

Quick Release Hub



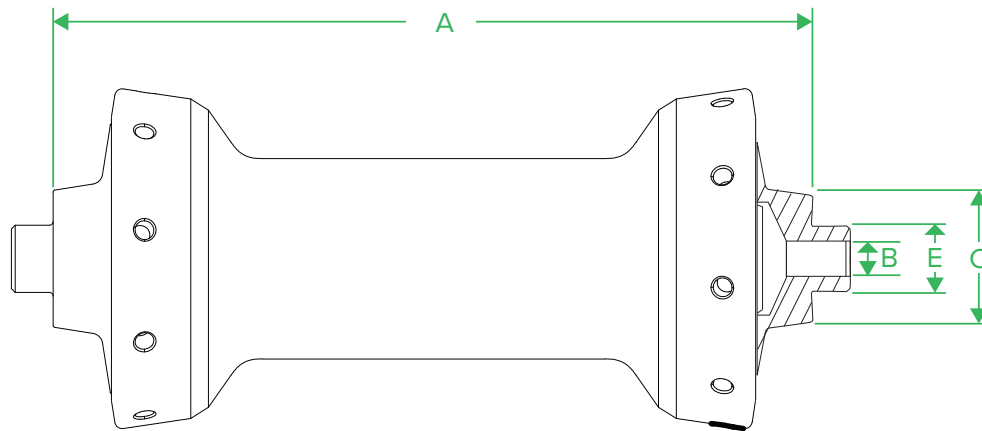
Thru Axle and Thru-bolt Hub



Zipp Rim Brake Hubs

Front Hub Specifications

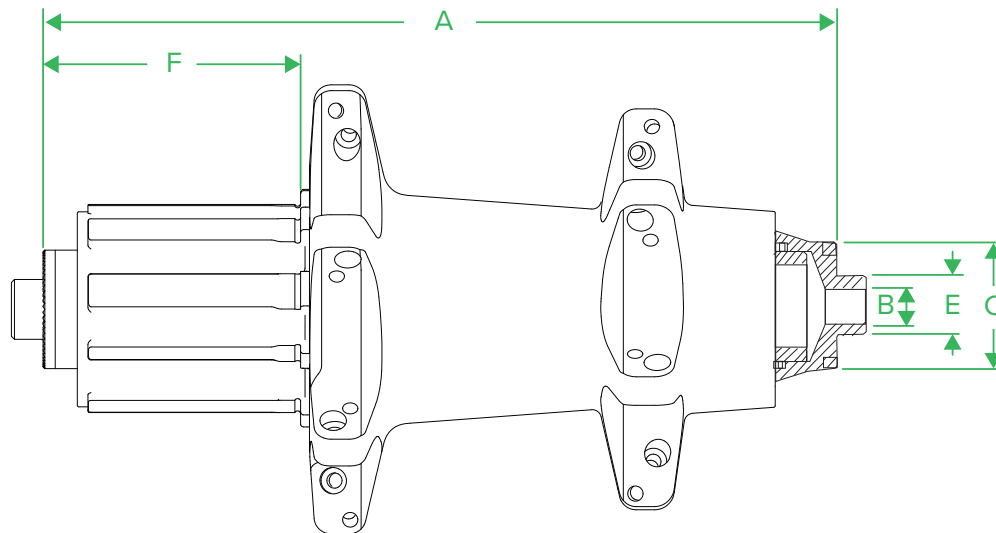
| | A (mm) | B (mm) | C (mm) | E (mm) |
|-------------------------|----------------|-------------------------|------------------------------|---------------------------|
| 9x100 Quick Release Hub | 100 ± 0.75 | $\text{Ø } 5.3 \pm 0.1$ | $\text{Ø } 18.3 \text{ MAX}$ | $\text{Ø } 8.85 \pm 0.05$ |



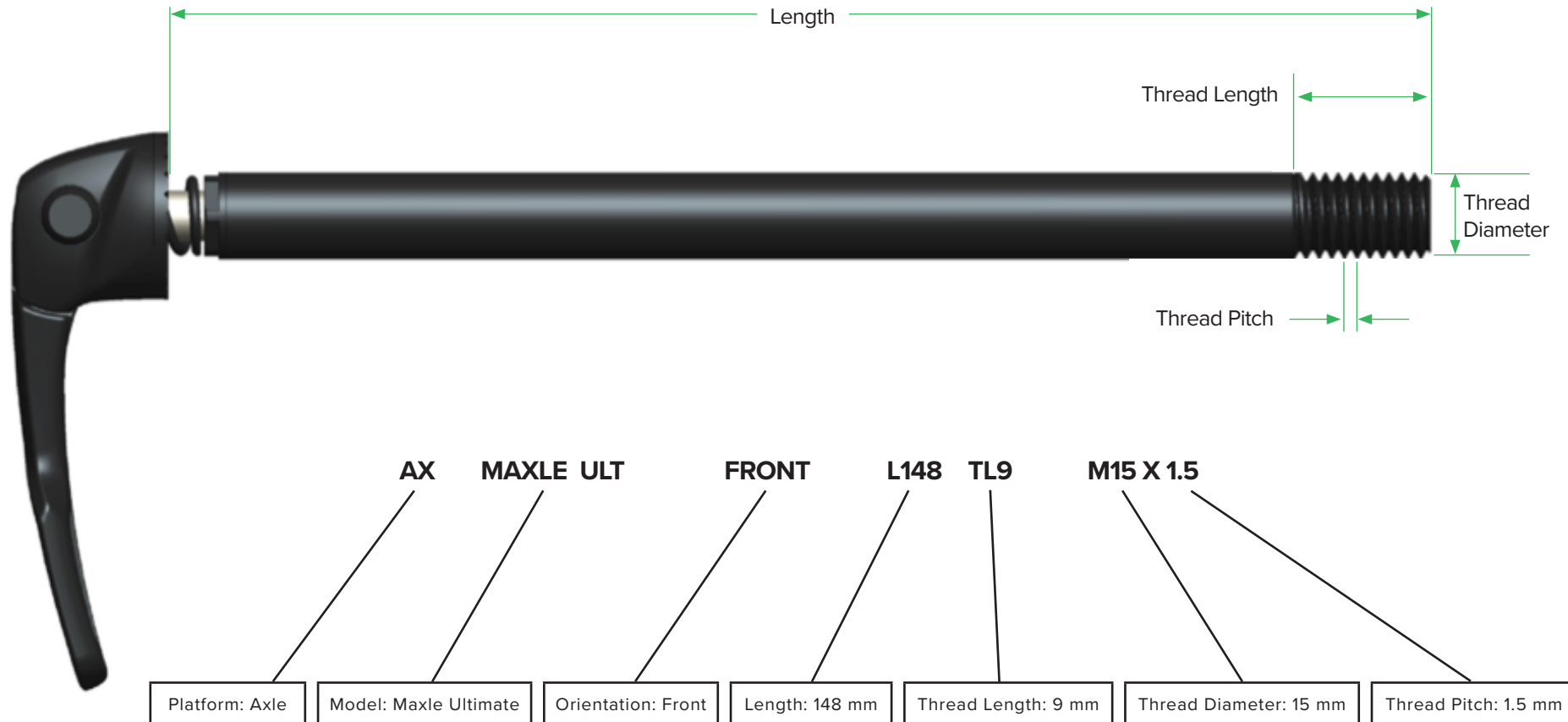
Zipp Rim Brake Hubs

Rear Hub Specifications

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



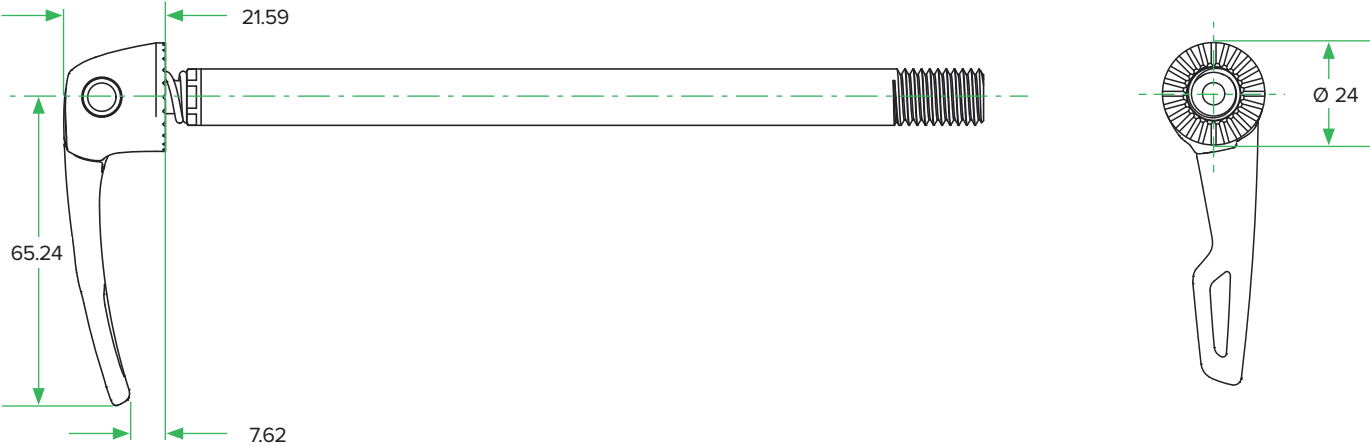
Maxle Description Decoder



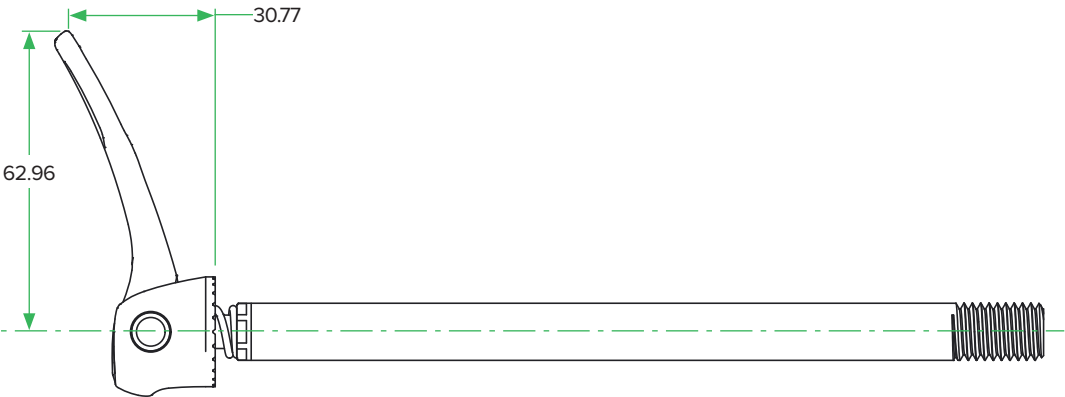
Maxle Ultimate

Frame / Fork Clearance

Lever in Closed Position

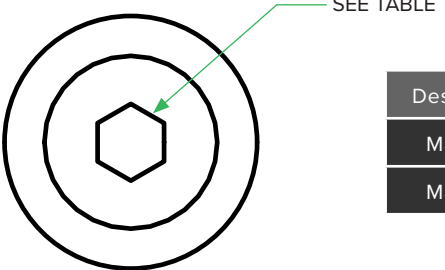
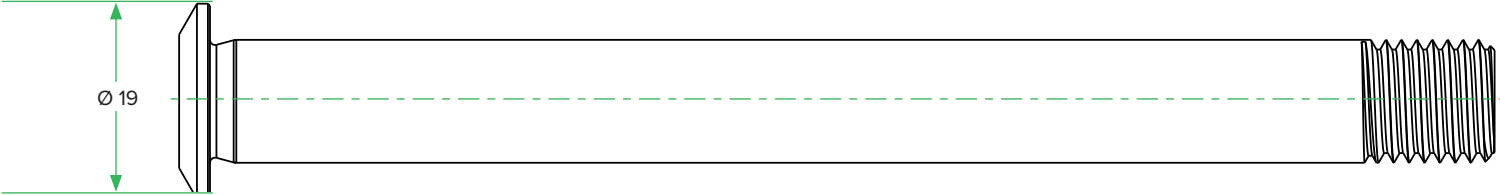


Lever in Open Position



- 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



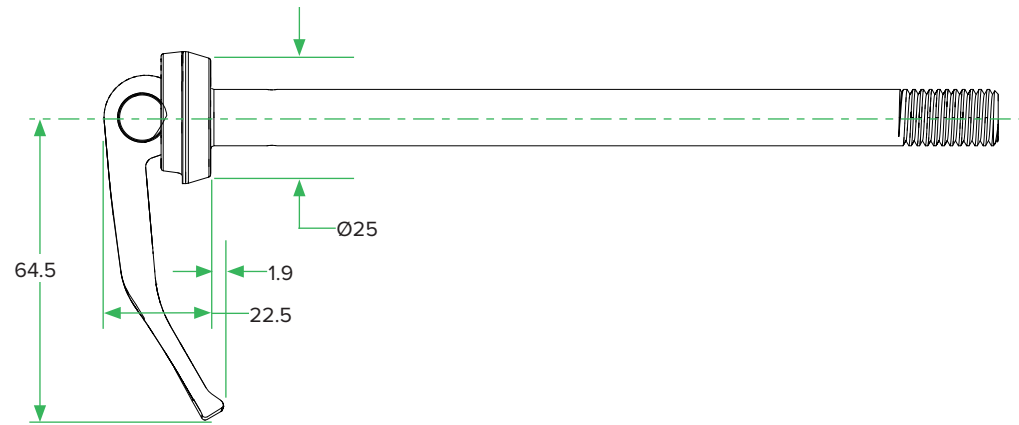
| Description | Hex Size | Torque Value |
|-------------|----------|--------------|
| Maxle 12 | 5 | 9-13.5 N·m |
| Maxle 15 | 6 | 9-13.5 N·m |

- 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.

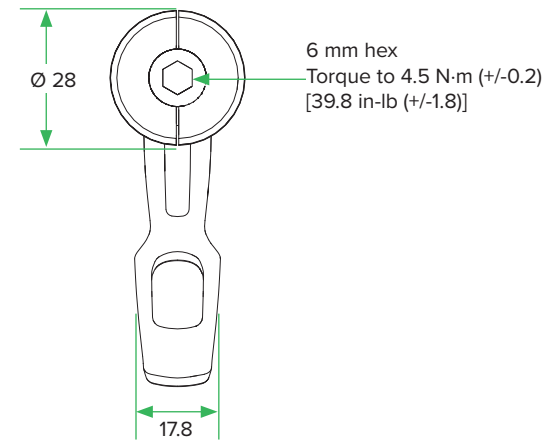
Maxle Lite & Maxle

Frame / Fork Clearance

Lever in Closed Position



Lever in Open Position

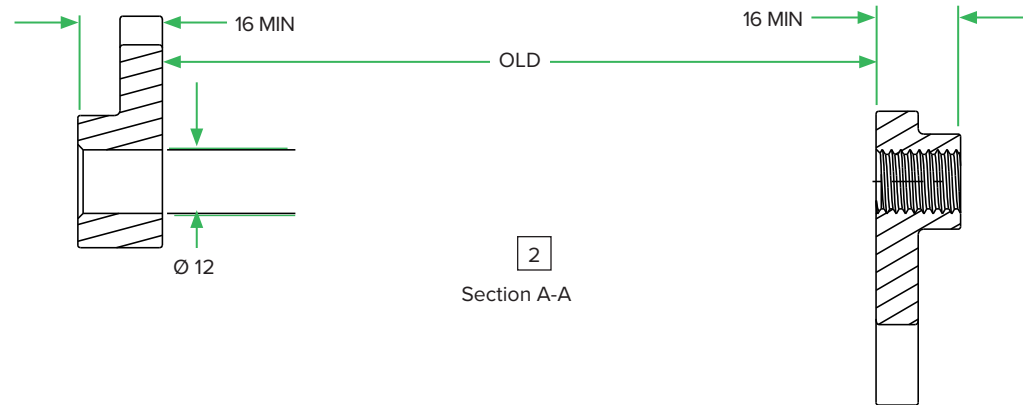
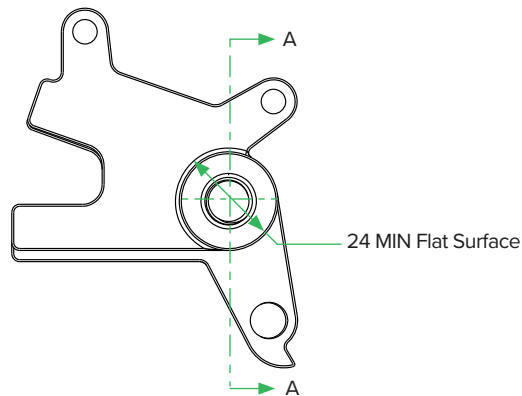
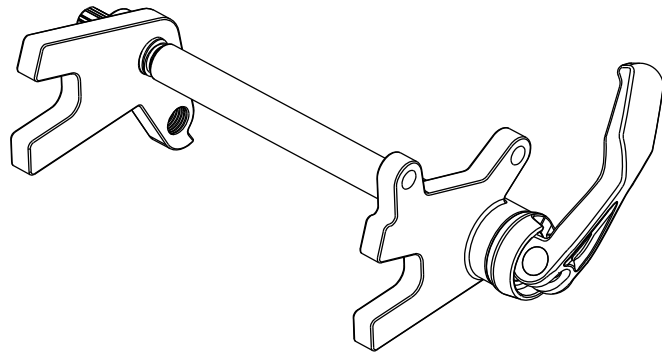


- 1 Drawing is not to scale.
- 2 Customer is responsible for ensuring hub, frame, and axle compatibility.
- 3 The frame manufacturer is responsible for ensuring the frame and/or fork assemblies using Maxles are compliant with existing safety standards.

Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth

Rear Frame Specification

Frame Dropouts with Maxle Installed



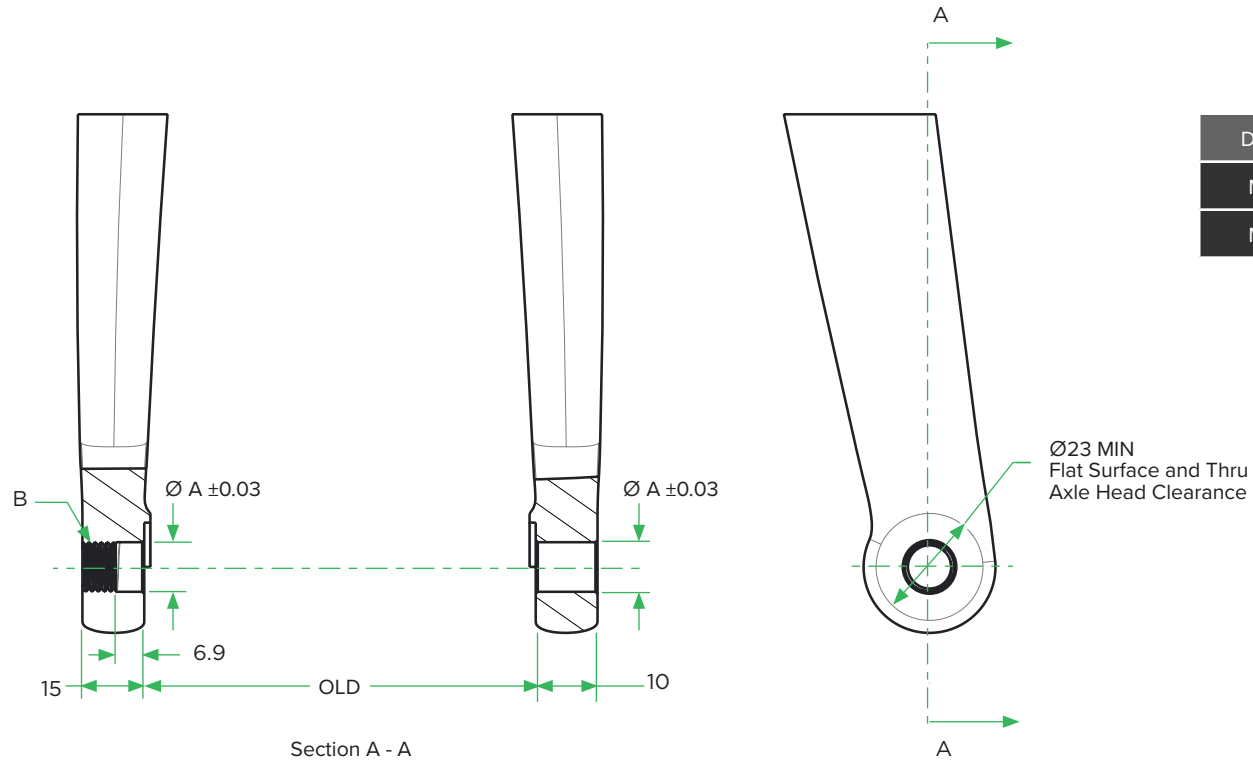
2
Section A-A

| 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

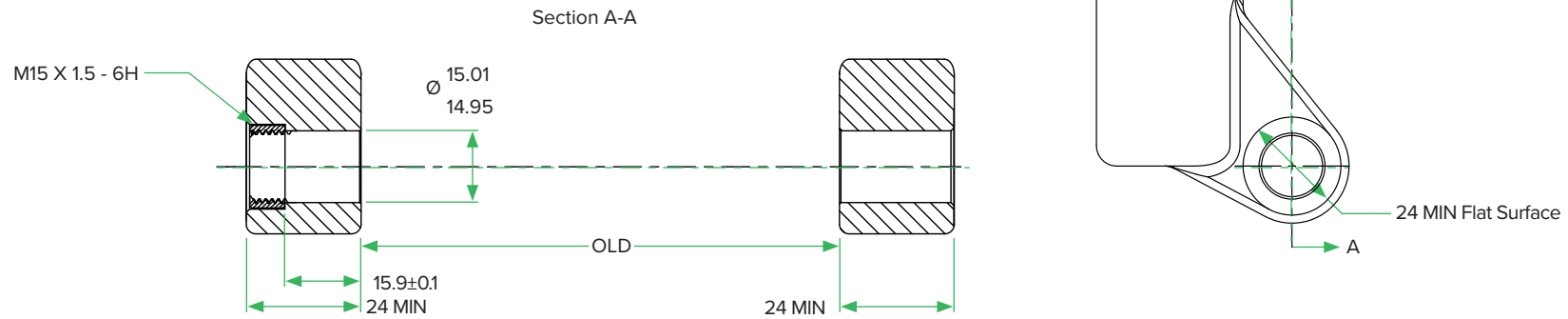
Fork Specification



| Description | A | B |
|-------------|-------|----------------|
| MAXLE 15 | 14.98 | M15 X 1.5 - 6H |
| MAXLE 12 | 12.03 | M12 X 1.5 - 6H |

Maxle, Maxle Lite, Maxle Ultimate, Maxle Stealth

Fork Specification



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