

2015

# MTB DRIVETRAIN

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Frame Fit Specifications



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**1X11™ & X01 DH™**

### **Important information about X01 DH compatibility**

This document is intended to communicate general frame fit guidelines for the X01 DH group set. For more detailed information, please contact your SRAM Account Manager.

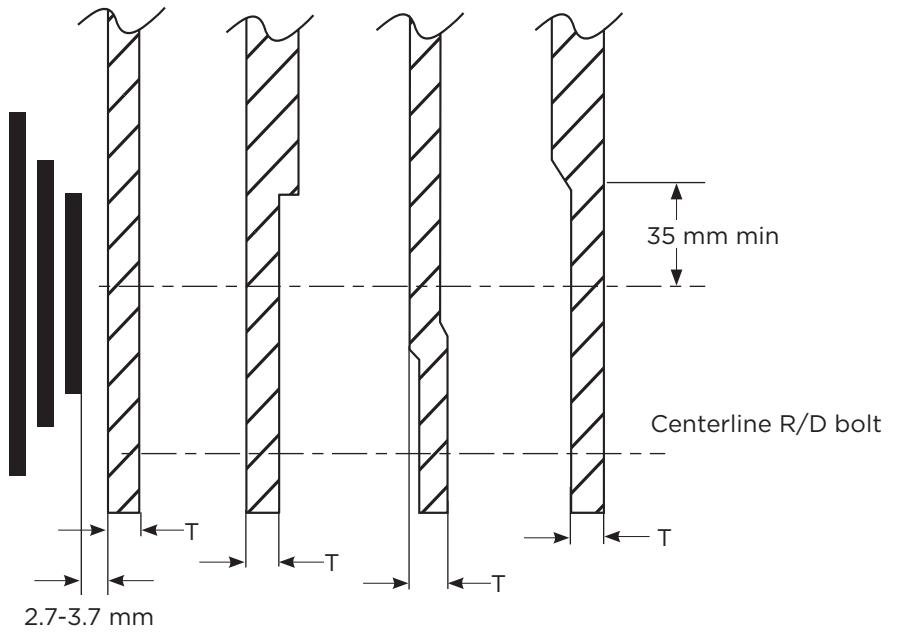
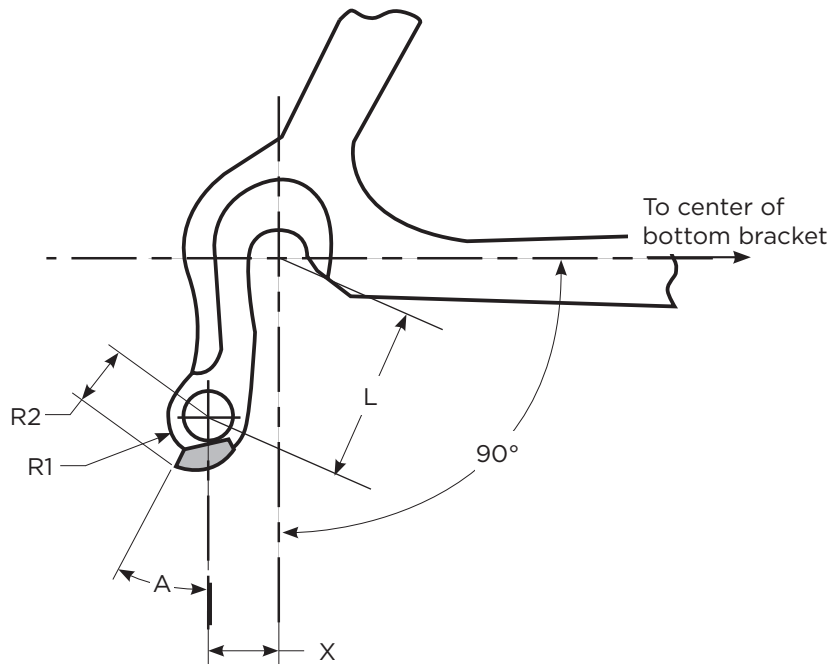
The X01 DH group set is only compatible with X01 DH designed components from SRAM. The X01 DH cassette is exclusively compatible with the SRAM XD™ Driver Body.

# Rear Derailleurs

# 1 x 11 & X01 DH Rear Derailleurs

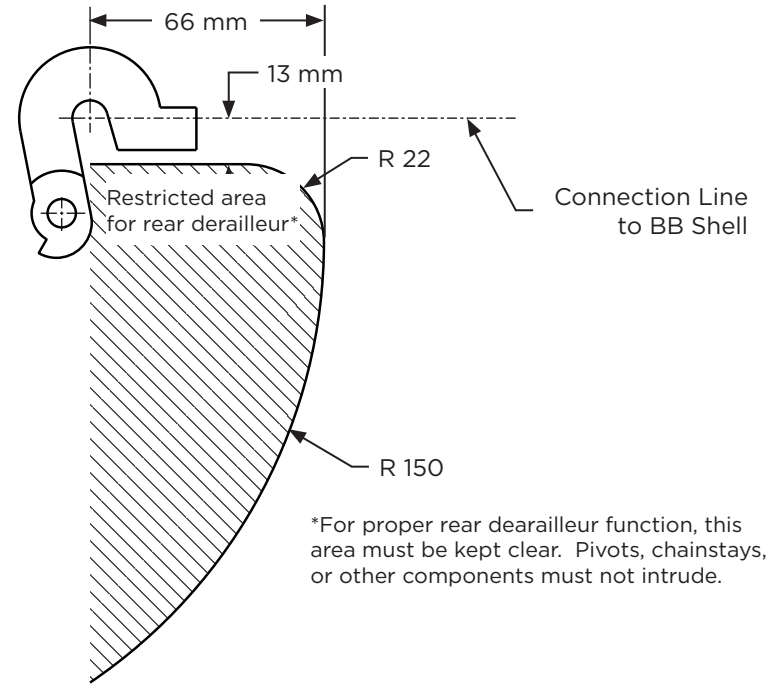
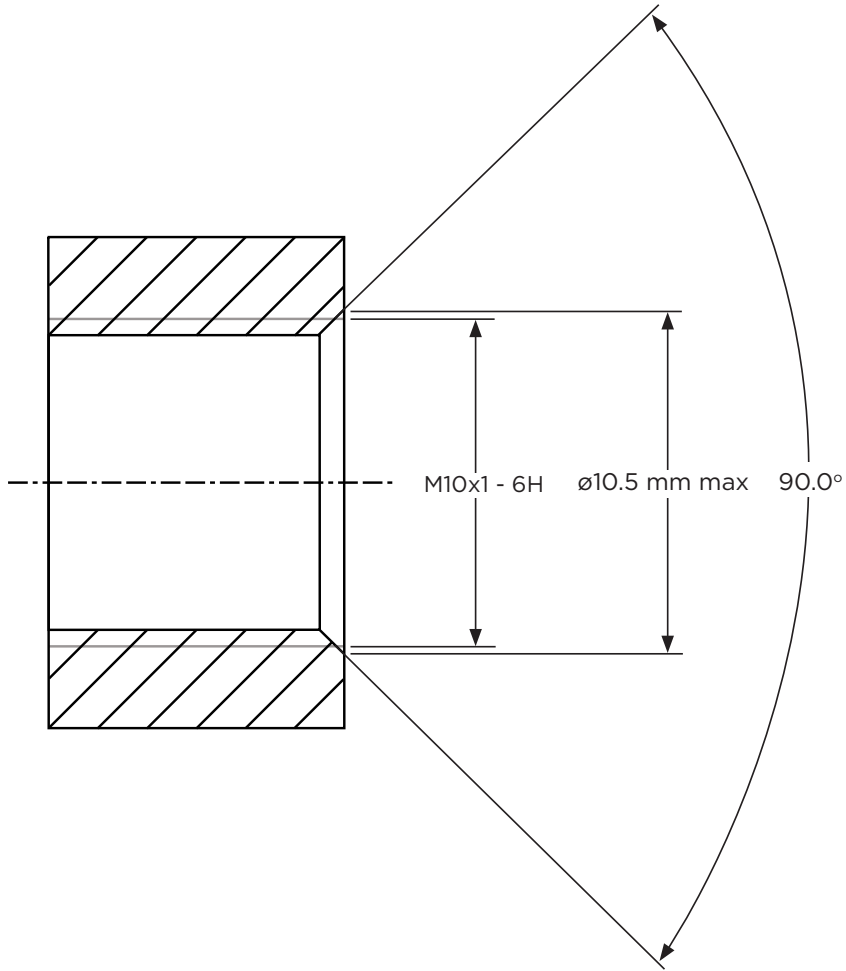
Rear Derailleur Hanger Specifications						
	L	X	A	R1	R2	T
Actuation Ratio	28-29 mm	6-10 mm	25°-30°	8.5 mm (max)	11.5-13.5 mm	7-9 mm
	30-36 mm	7.5-10 mm				

## Rear Derailleur Hanger



# 1 x 11 & X01 DH Rear Derailleurs

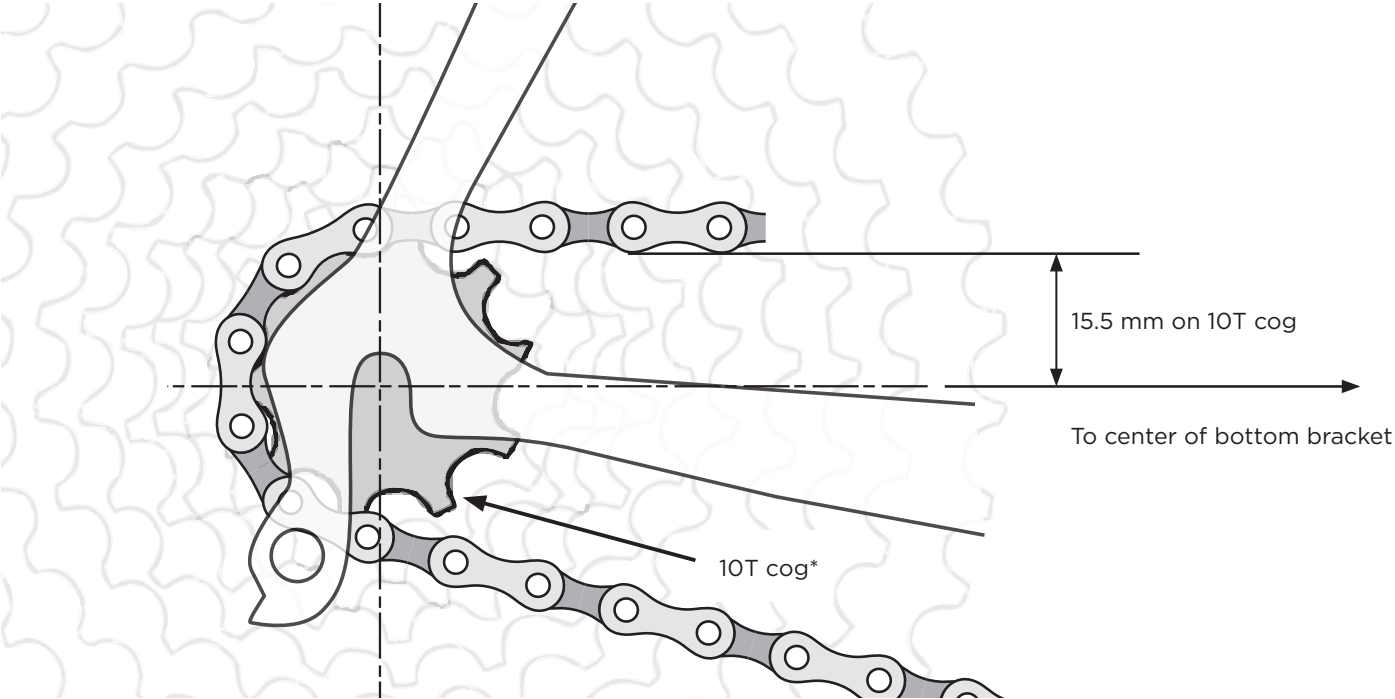
## REAR DERAILLEUR HANGER



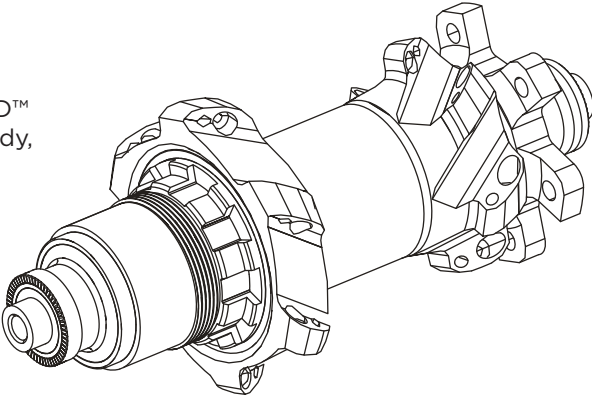


# Chainstay Clearance

# 1 x 11 & X01 DH Chainstay Clearance



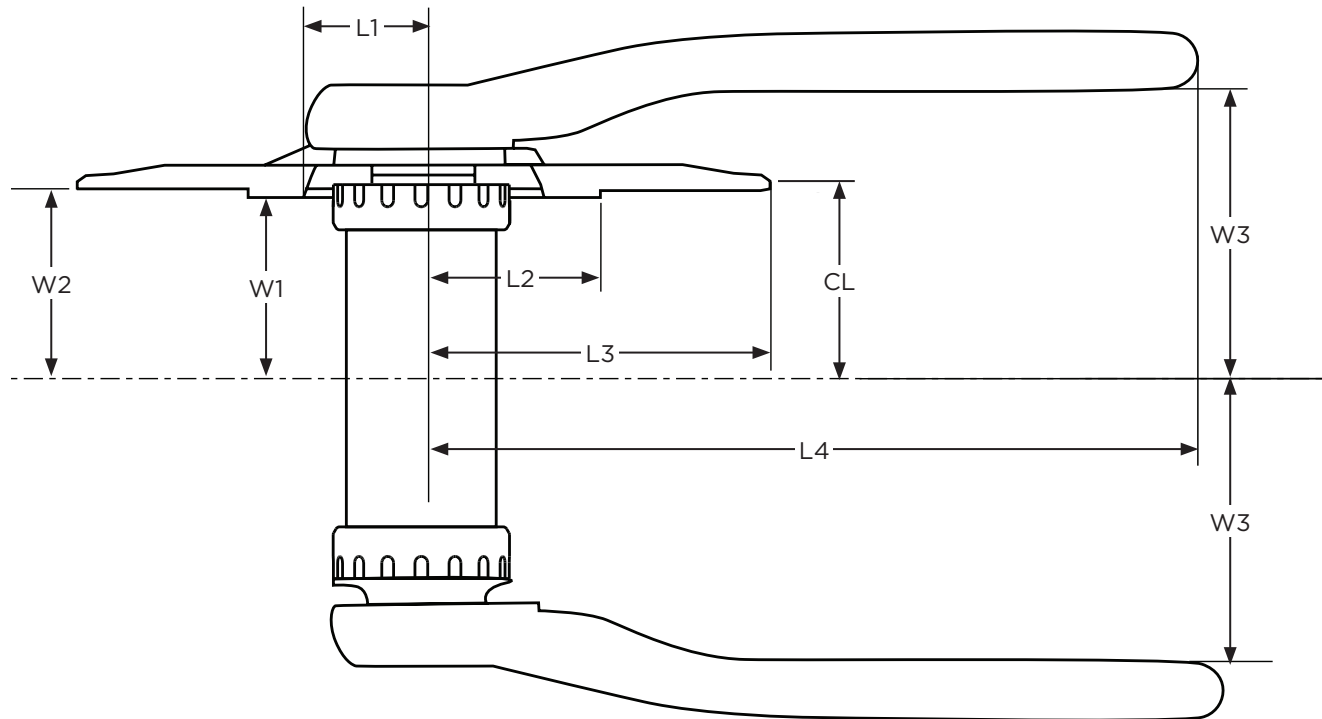
\*SRAM 1x11 cassettes are exclusively compatible with the SRAM XD™ Driver Body. For a list of companies using the SRAM XD Driver Body, go to - <http://www.xddriverbody.com/>



# Cranksets

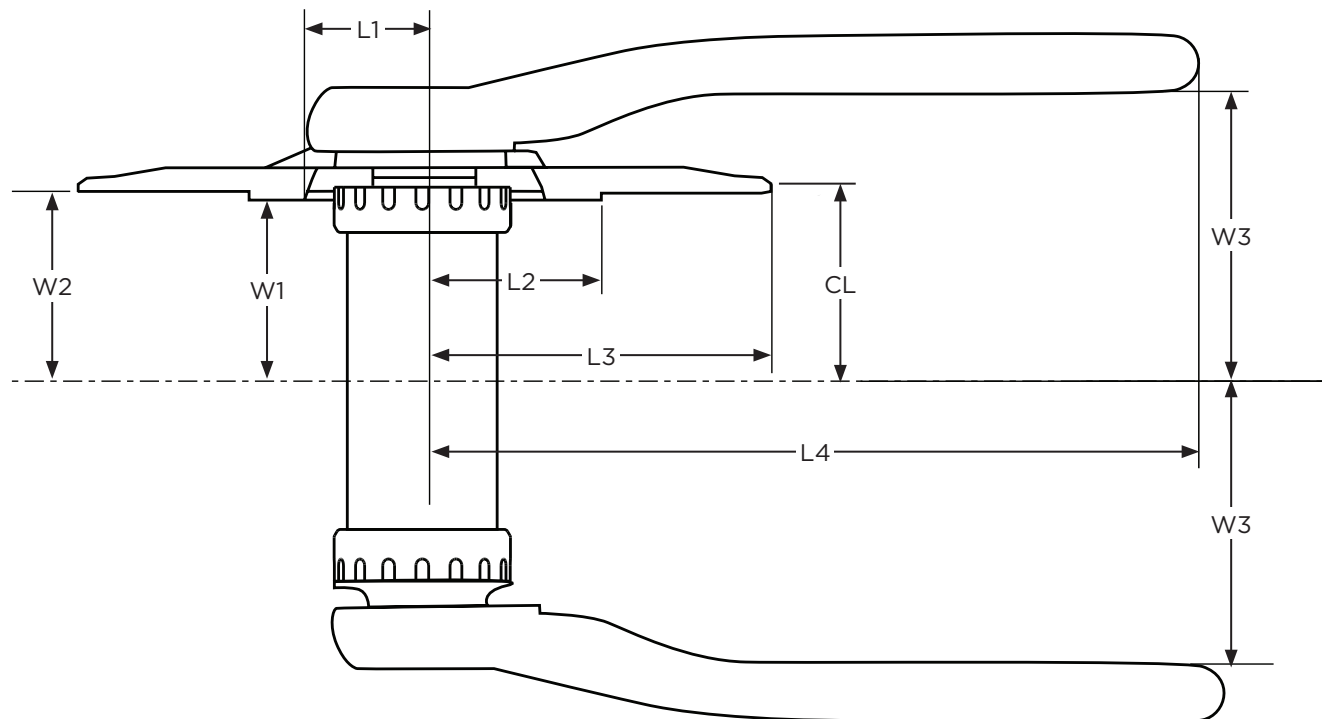
# XX1 Cranksets

Crankset Frame Clearance Information								
Chain Ring	L1	L2	L3	L4	W1	W2	W3	CL (chainline)
28	27 mm	41 mm	60.5 mm	195 mm	45.5 mm	46.5 mm	64.5 mm [Q156]	49 mm
30			64.5 mm					
32			68.5 mm					
34			72.5 mm					
36			76.5 mm					
38			80.5 mm					
<b>Q-factor</b> : Q156, Q168								
<b>Bottom Bracket Type(s)</b> : GXP : BB30 : Pressfit™ 30 : Pressfit™ GXP MTB								



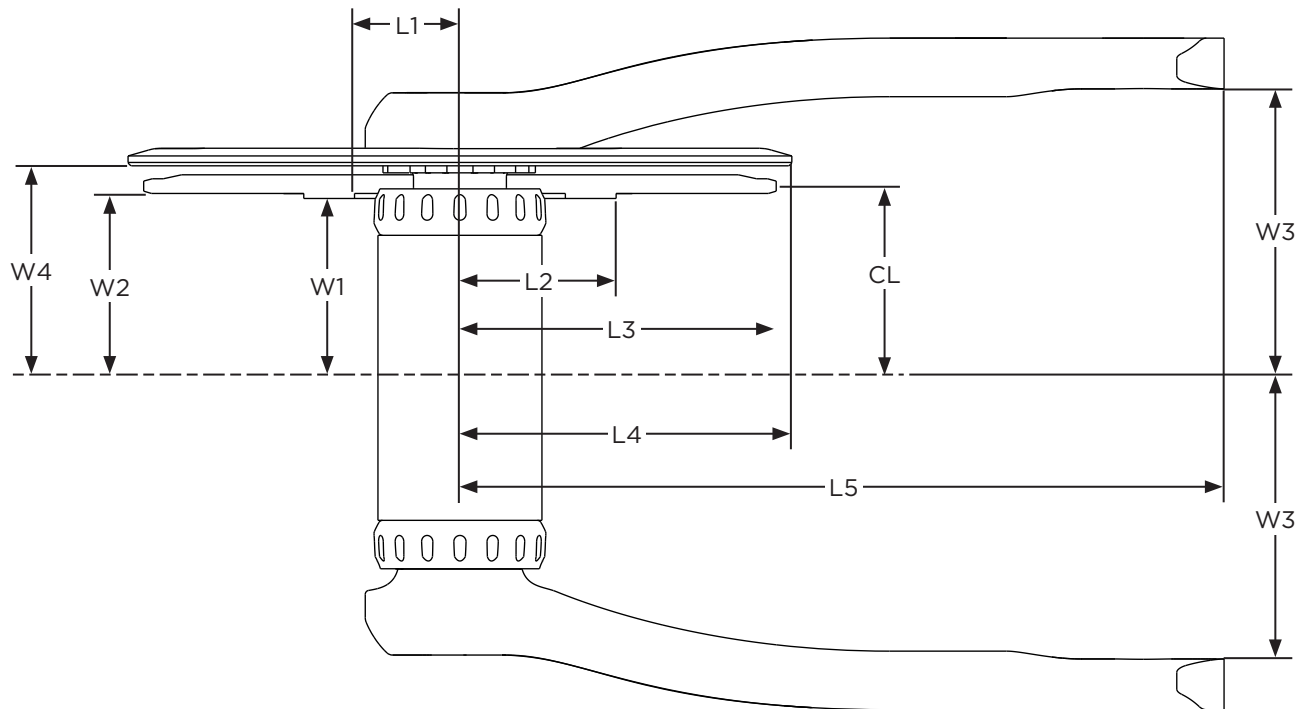
# XX1 Cranksets for fat bikes

Crankset Frame Clearance Information								
Chain Ring	L1	L2	L3	L4	W1	W2	W3	CL (chainline)
28	27 mm	41 mm	60.5 mm	195 mm	63.5 mm	64.5 mm	86.5 mm (NDS) 89.5 mm (DS)	66.5 mm
30			64.5 mm					
								<b>Q-factor</b> : Q201
					<b>Bottom Bracket Type(s)</b> : GXP : Pressfit™ GXP MTB			



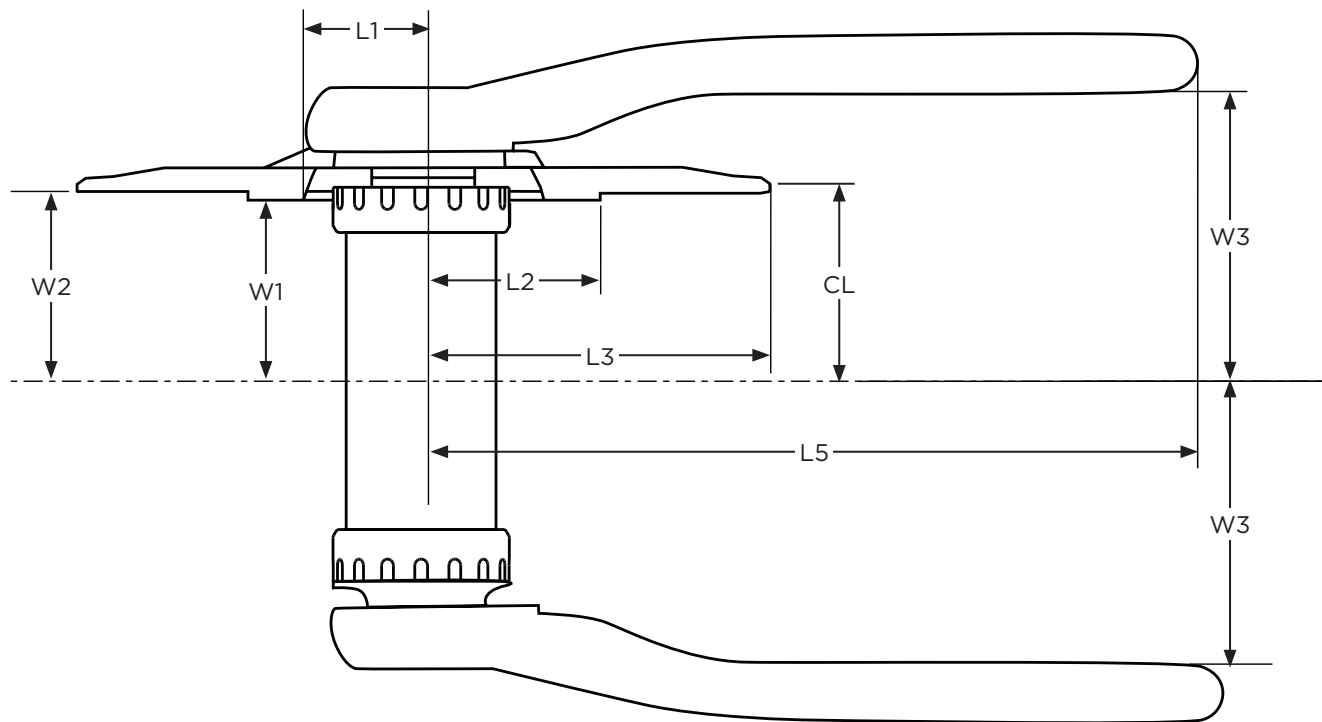
# X01 Cranksets

Crankset Frame Clearance Information										
Chain Ring	L1	L2	L3	L4	L5	W1	W2	W3	W4	CL (chainline)
30	23 mm	40 mm	64.5 mm	69.5 mm	195 mm	45.5 mm	46.5 mm	70.5 mm [Q168]	55.5 mm	49 mm
32			68.5 mm	73.5 mm						
34			72.5 mm	77.5 mm						
36			76.5 mm	81.5 mm						
38			80.5 mm	85.5 mm						
<b>Q-factor : Q168</b>										
<b>Bottom Bracket Type(s) :</b> GXP : BB30 : Pressfit™ 30 : Pressfit™ GXP MTB										



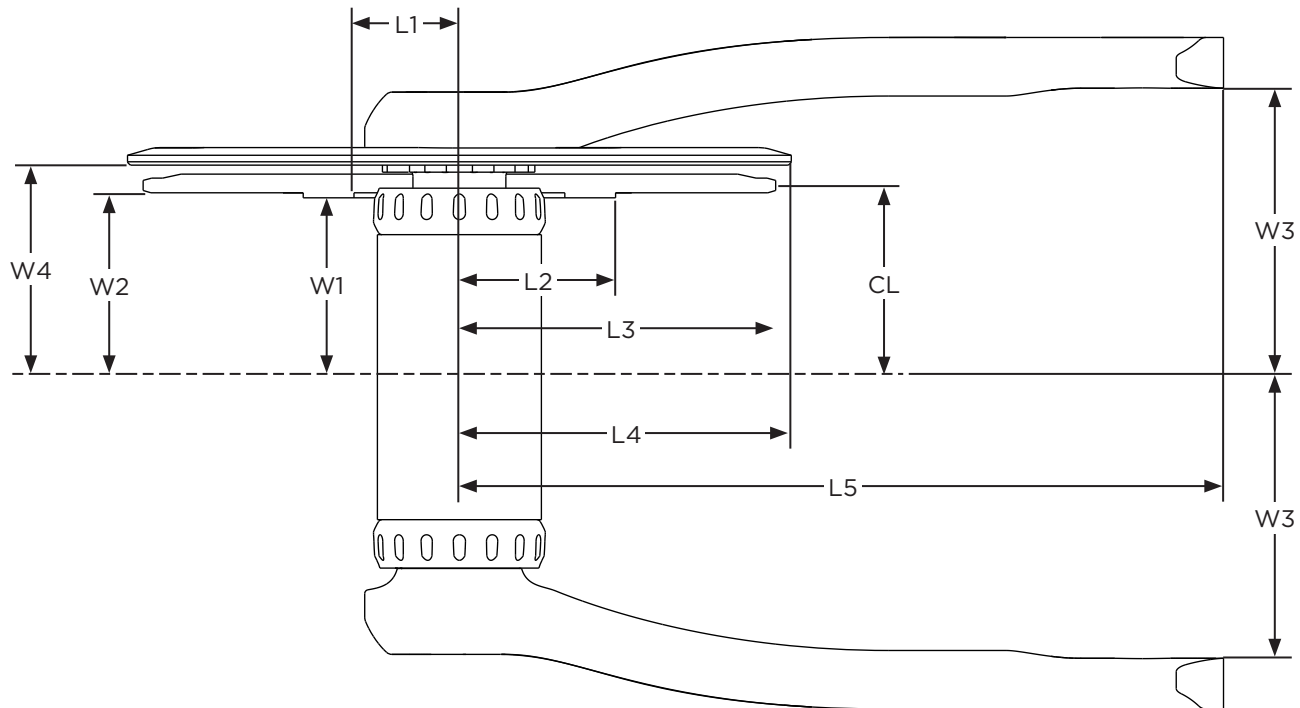
# X-SYNC™ X01™ DH Cranksets [1x7]

CRANKSET FRAME CLEARANCE INFORMATION								
Chain Ring	L1	L2	L3	L5	W1	W2	W3	CL (chainline)
32	23 mm	40 mm	68.5 mm	190 mm [170 mm crank arm]	55 mm	53 mm	78 mm	55 mm
34			72.5 mm					
36			76.5 mm					
38			80.5 mm					
								<b>Q-factor :</b> Q181
<b>Bottom Bracket Type(s) :</b> GXP : BB30 : PressFit™ 30 : PressFit™ GXP MTB								



# X1-1400 Cranksets

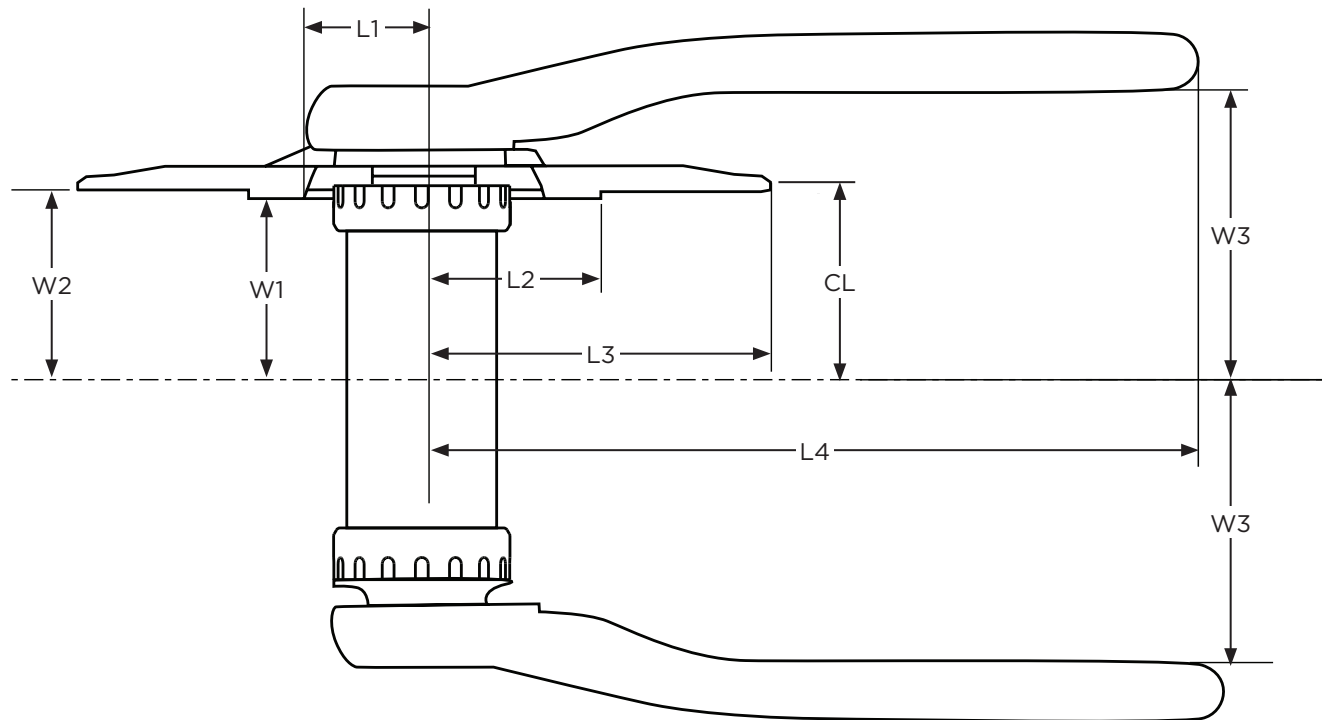
Crankset Frame Clearance Information										
Chain Ring	L1	L2	L3	L4	L5	W1	W2	W3	W4	CL (chainline)
30	23 mm	40 mm	64.5 mm	69.5 mm	201 mm	43.5 mm	46.5 mm	72 mm	55.5 mm	49 mm
32			68.5 mm	73.5 mm						
34			72.5 mm	77.5 mm						
36			76.5 mm	81.5 mm						
38			80.5 mm	85.5 mm						
										<b>Q-factor</b> : Q168
<b>Bottom Bracket Type(s)</b> : GXP : BB30 : Pressfit™ 30 : Pressfit™ GXP MTB										





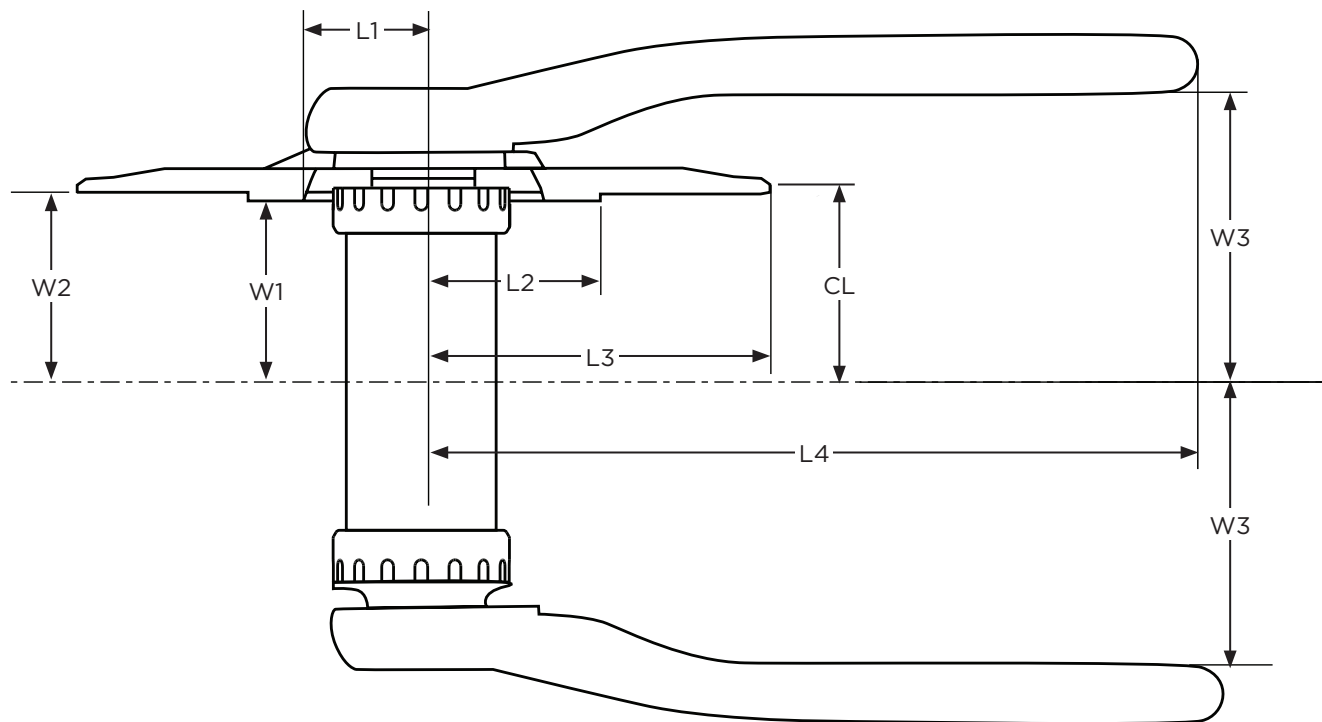
# X1-1200 & X1-1000 Cranksets

Crankset Frame Clearance Information								
Chain Ring	L1	L2	L3	L4	W1	W2	W3	CL (chainline)
30	25 mm	40 mm	64.5 mm	192 mm	49.5 mm	47.2 mm	72 mm	49 mm
32			68.5 mm					
34			72.5 mm					
36			76.5 mm					
38			80.5 mm					
								<b>Q-factor : Q168</b>
<b>Bottom Bracket Type(s) : GXP : BB30 : Pressfit™ 30 : Pressfit™ GXP MTB</b>								



# X1-1000 Cranksets for fat bikes

Crankset Frame Clearance Information								
Chain Ring	L1	L2	L3	L4	W1	W2	W3	CL (chainline)
30	27 mm	41 mm	64.5 mm	192 mm	67.0 mm	64.5 mm	88.0 mm (NDS) 89.5 mm (DS)	66.5 mm
32			68.5 mm					
								<b>Q-factor</b> : Q203
					<b>Bottom Bracket Type(s)</b> : GXP : Pressfit™ GXP MTB			



**XX<sup>TM</sup>**

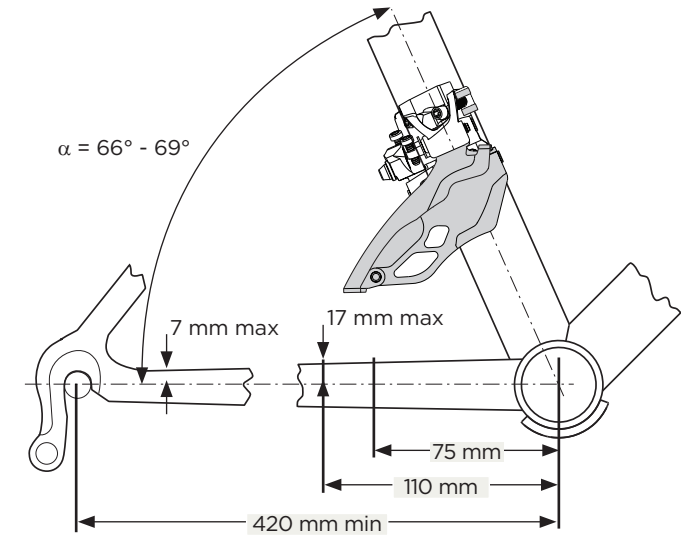
XX demands precise frame fit specifications that are unique to XX.

# Front Derailleurs

# XX™ Front Derailleurs - Low & High Clamp

		Clamp/Body Position*				Tire Clearance		
		Chain Ring	A	B	C	D	E	F
Low Clamp	39T	61 mm	76 mm	-	100 mm	40 mm	33 mm	
	42T	67 mm	82 mm					
High Clamp	39T	114 mm	129 mm	79 mm	-	Top Pull = 25 Bottom Pull = 32	34 mm	
	42T	120 mm	135 mm	85 mm				

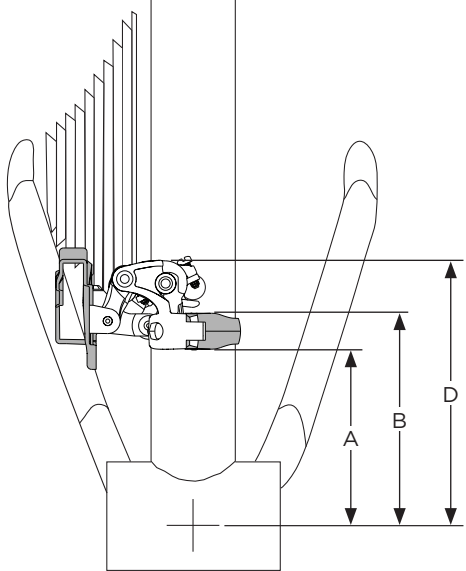
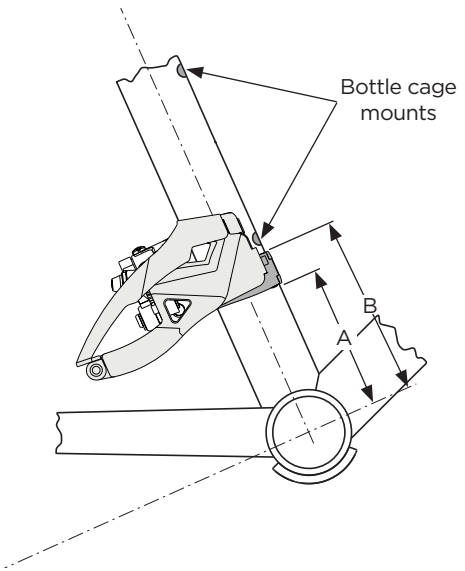
\* Be sure to leave adequate clearance between bottle cage mounts and front derailleur clamp.



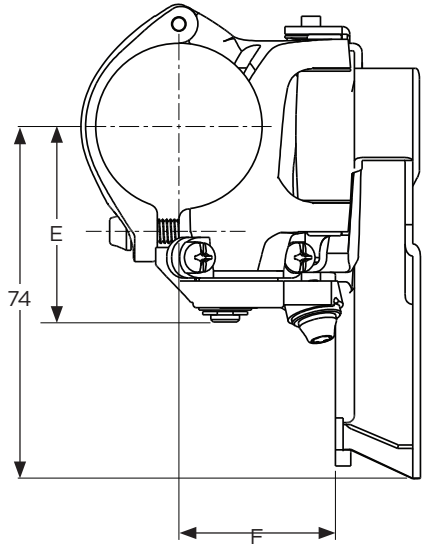
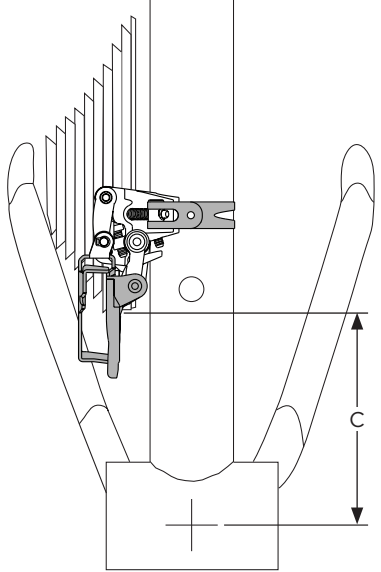
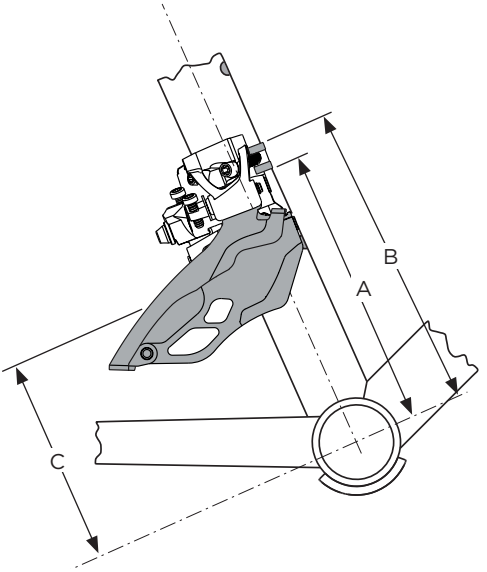
Front Derailleur Frame Compatibility and Capacity Information							
	Clamp Diameter	Rear Capacity	Index	Cable Routing	Chain Stay Angle ( $\alpha$ )	Chain Line	Material
Low Clamp	31.8 mm (use adaptor) 34.9 mm 38.2 mm	10 speed	Yes	Top Pull or Bottom Pull	66° - 69°	49.5 mm	Clamp - Forged Aluminum Cage - Steel
High Clamp	31.8 mm 34.9 mm 38.2 mm						Clamp - Steel Cage - Steel

# XX™ Front Derailleurs - Low & High Clamp

Low Clamp



High Clamp

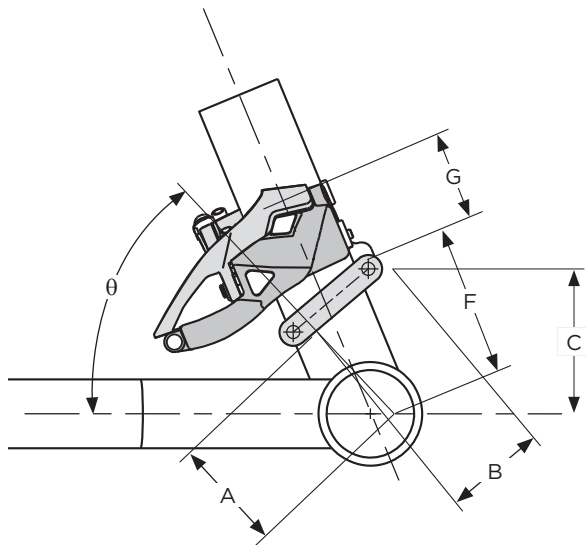


# XX™ Front Derailleurs - Low Direct Mount

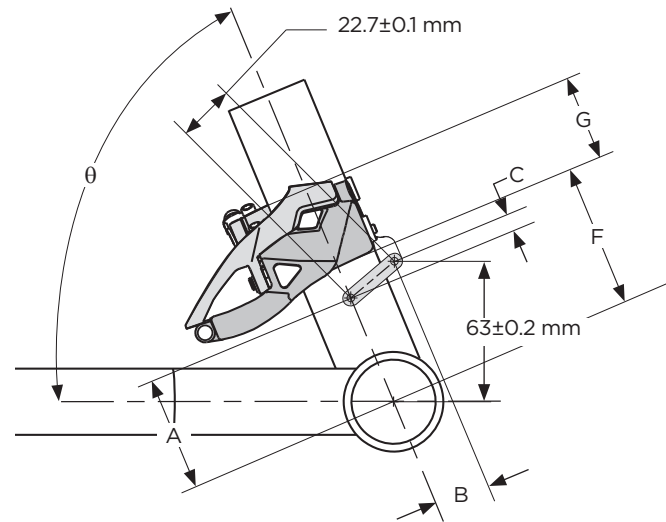
Mounting Hole Position (Swing Arm Fully Extended)								Front Derailleur Clearance (Swing Arm Fully Compressed)		
Low Direct Mount Type	$\theta$	A	B	C	D		E*	F	G	$d_{max}^*$
					68 mm BB shell width	73 mm BB shell width				
	S1	$45.5^\circ \pm 1^\circ$	48.9 mm $\pm 0.15$	42.7 mm $\pm 0.1$	63 mm $\pm 0.2$	14.8 mm $\pm 0.15$	17.3 mm $\pm 0.15$	-	65 mm	45 mm
S2	$66^\circ - 69^\circ$ ( $\theta = \alpha$ )	54 mm $\pm 0.15$	22.1 mm $\pm 0.05$	5 mm $\pm 0.05$	7 mm $\pm 0.15$	9.5 mm $\pm 0.15$	5 mm $\pm 0.1$	65 mm	45 mm	38.2 mm
S3										

\*Dimension can be found on page 6.

Low Direct Mount Type : S1



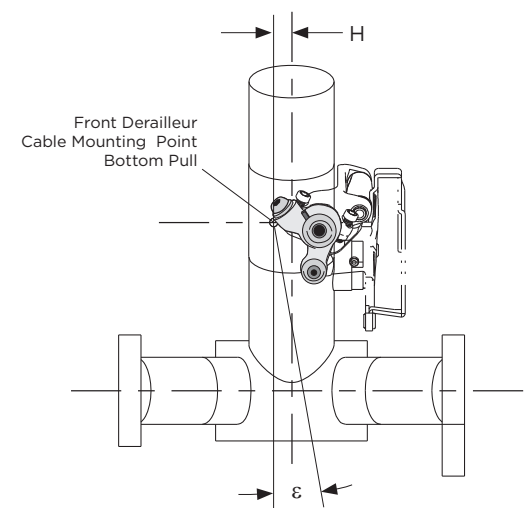
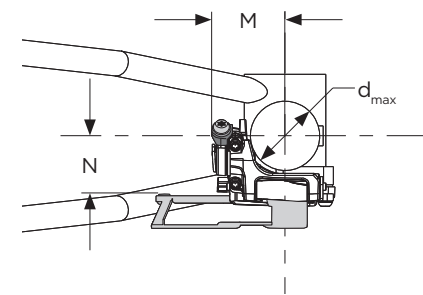
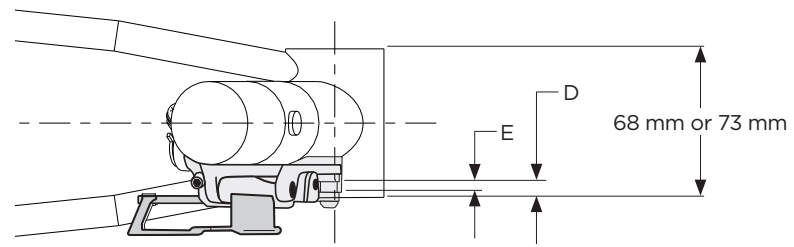
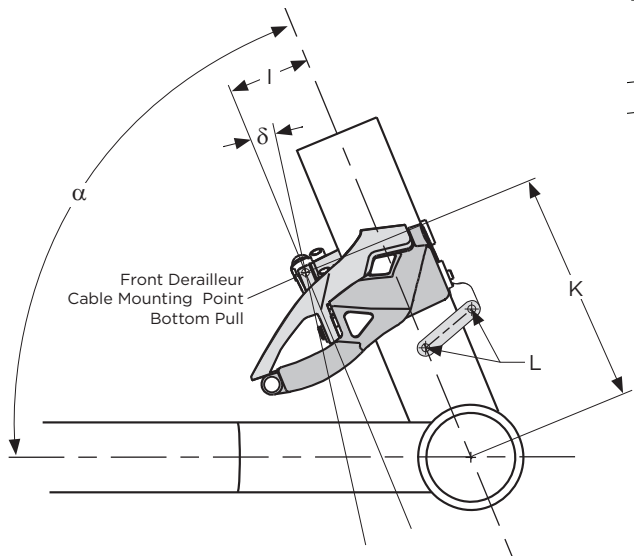
Low Direct Mount Type : S2 + S3



# XX™ Front Derailleurs - Low Direct Mount

Front Derailleur Cable Routing - Bottom Pull (Swing Arm Fully Extended)							Thread Dimension	Tire Clearance	
H	I	K Chainring Size			$\delta$	$\varepsilon$	L	M	N
		39T	42T	45T					
8 mm	35 mm	94 mm	100 mm	106 mm	10.5° max	10.5° max	M5.0x0.8-6H	40 mm	33 mm

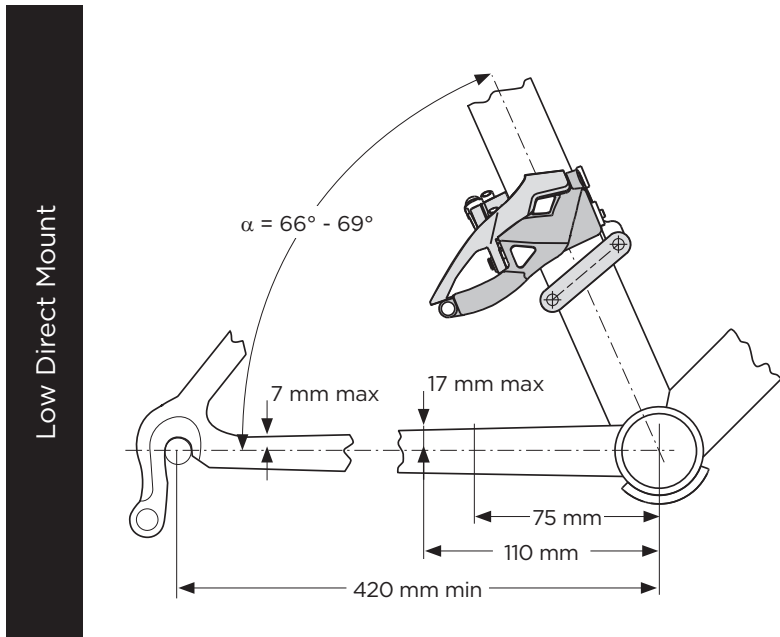
Low Direct Mount





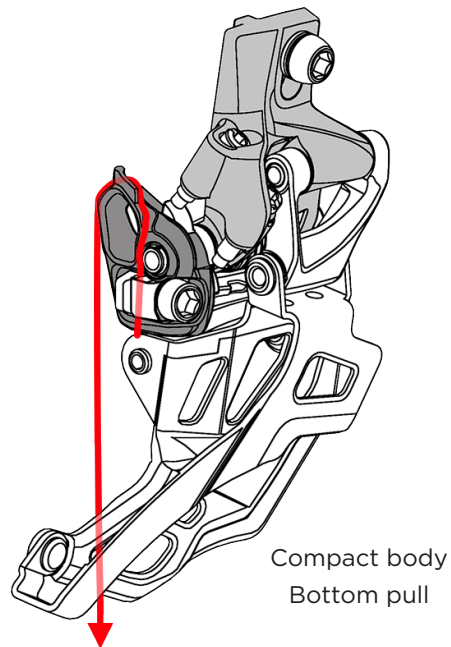
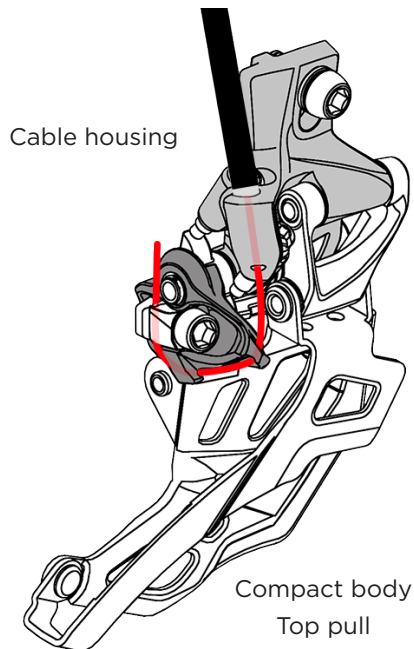
# XX™ Front Derailleurs - Low Direct Mount

Front Derailleur Frame Compatibility and Capacity Information					
Rear Capacity	Index	Cable Routing	Chain Stay Angle ( $\alpha$ )	Chain Line	Material
10 speed	Yes	Top Pull or Bottom Pull	66° - 69°	49.5 mm	Body - Forged Aluminum Cage - Steel



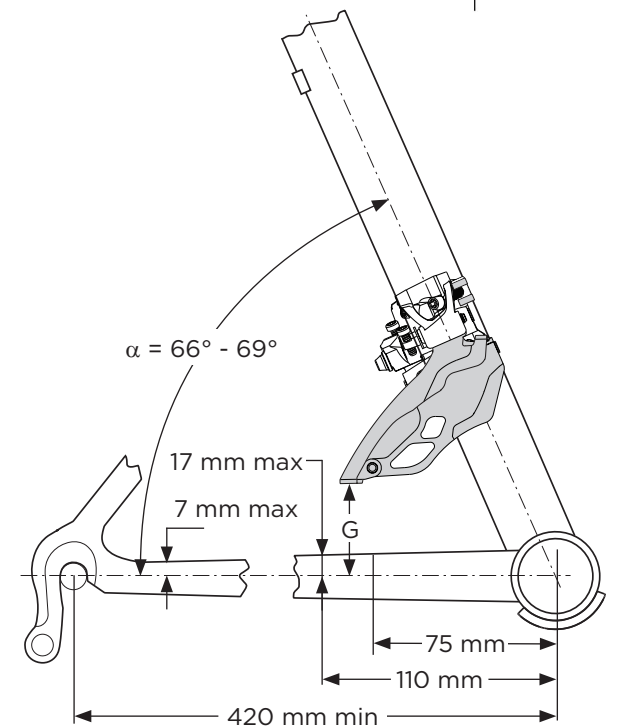
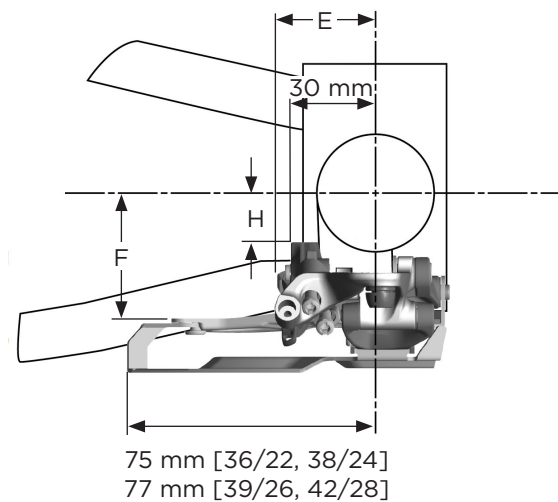
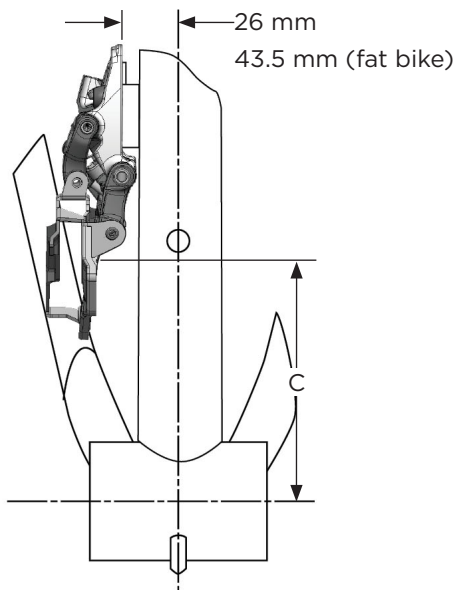
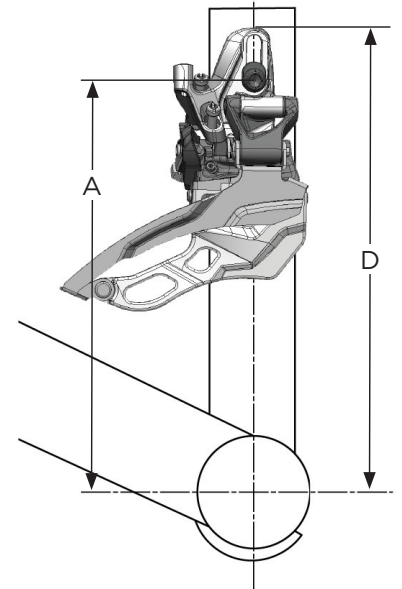
# XX™ Front Derailleurs - High Direct Mount

Front Derailleur - High Direct Mount Frame Compatibility and Capacity Information					
Chainring Combination	Rear Capacity	Index	Cable Routing	Chain Stay Angle $\alpha$	Chainline
39/26 42/28	10 speed	Yes	Top Pull Bottom Pull	66° - 69°	49.5 mm
36/22 38/24	10 speed	Yes	Top Pull Bottom Pull	66° - 69°	49 mm



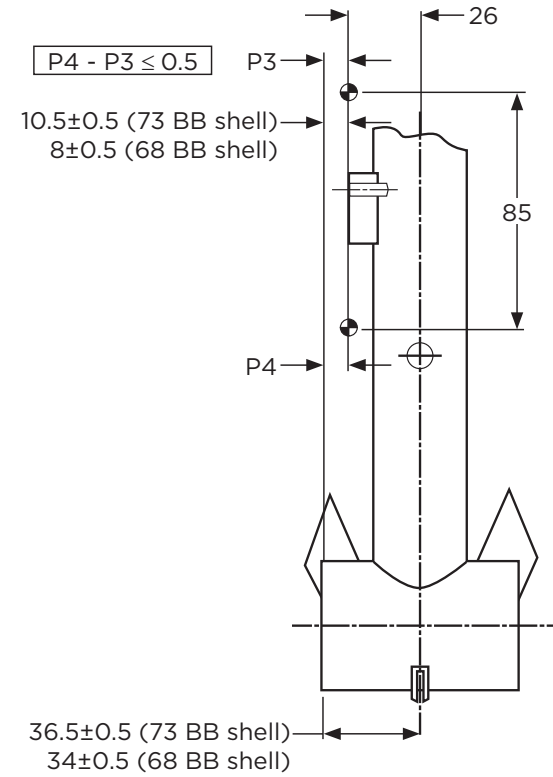
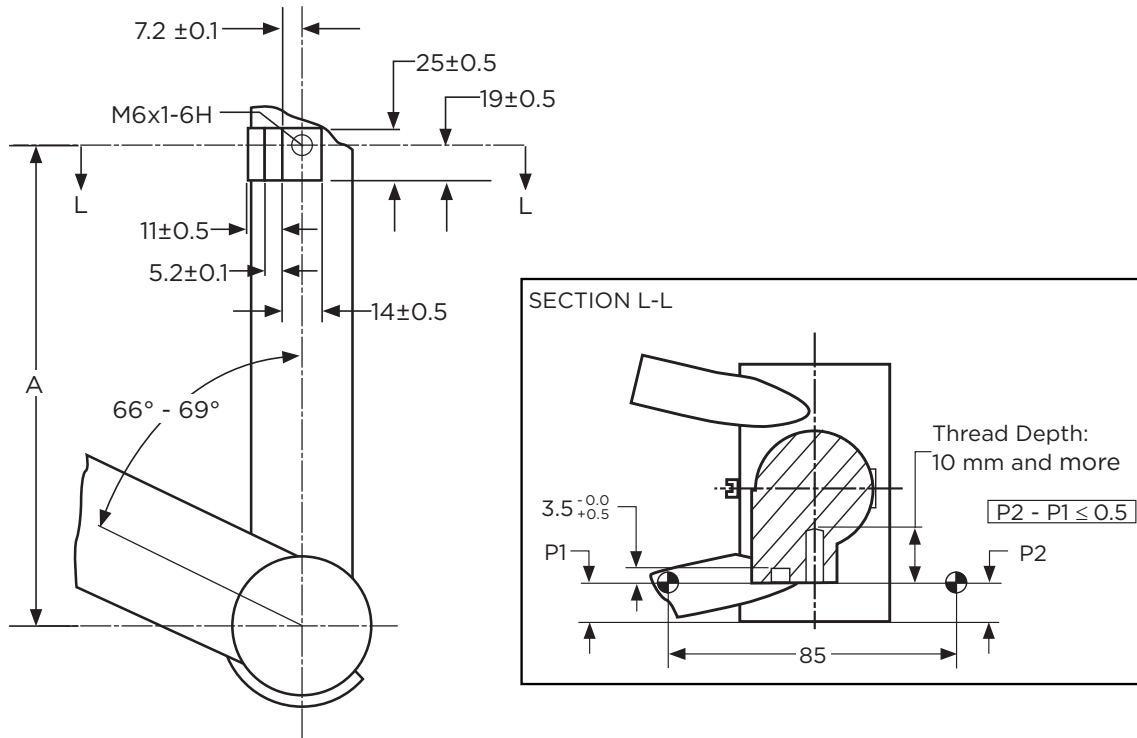
# XX™ Front Derailleurs - High Direct Mount

High Direct Mount Dimensions									
Chaining Combination	Cable Pull	A	C	D	E	F	G (mm)		H
							$\alpha = 66^\circ$	$\alpha = 69^\circ$	
36/22	Top	155 mm Compact	84 mm	164 mm Compact	34 mm	33 mm	18	23	14 mm
	Bottom								7 mm
38/24	Top	155 mm Compact	88 mm	169 mm Compact	34 mm	33 mm	22	27	14 mm
	Bottom								7 mm
39/26	Top	155 mm Compact	82 mm	163 mm Compact	34 mm	33 mm	22	27	14 mm
	Bottom								7 mm
42/28	Top	155 mm Compact	88 mm	169 mm Compact	34 mm	33 mm	28	33	14 mm
	Bottom								7 mm



Front Derailleurs

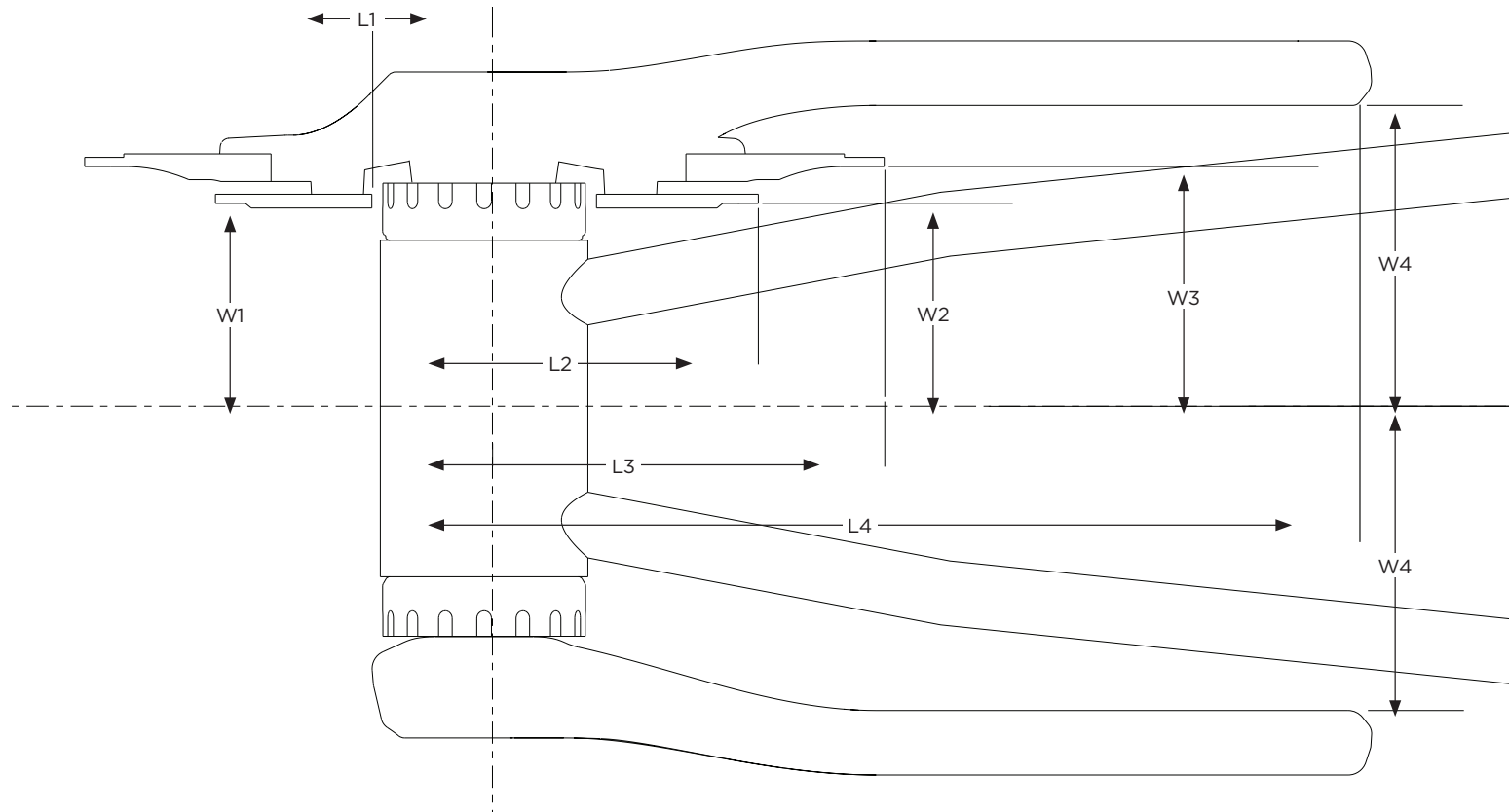
# XX™ Front Derailleurs - High Direct Mount



# Cranksets

# XX™ Cranksets

Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	W1	W2	W3	W4	W4	W4
39/26	31 mm	55 mm	81 mm	190 mm (175 mm crank arm length)	43.5 mm	44.5 mm	52.5 mm	65.7 mm	69.5 mm	70.5 mm
42/28		60 mm	87 mm							
<b>Q-factor</b>								Q156	Q164	Q166
<b>Bottom Bracket Type(s)</b>								GXP BB30 PressFit™ 30 PressFit™ GXP	BB30 PressFit™ 30	GXP PressFit™ GXP



**X0<sup>TM</sup> / X9<sup>TM</sup> / X7<sup>TM</sup> / X5<sup>TM</sup>**

# Front Derailleurs



# X0™ / X9™ / X7™ / X5™ Front Derailleurs - 10 Speed Overview

## Front Derailleur Notes: Common for all Front Derailleurs

Leave adequate clearance between bottle cage mounts and front derailleur clamp.

Be sure to consider the full travel range for suspension frames.

$\alpha$  = Chainstay angle (angle between seat tube and chainstay).

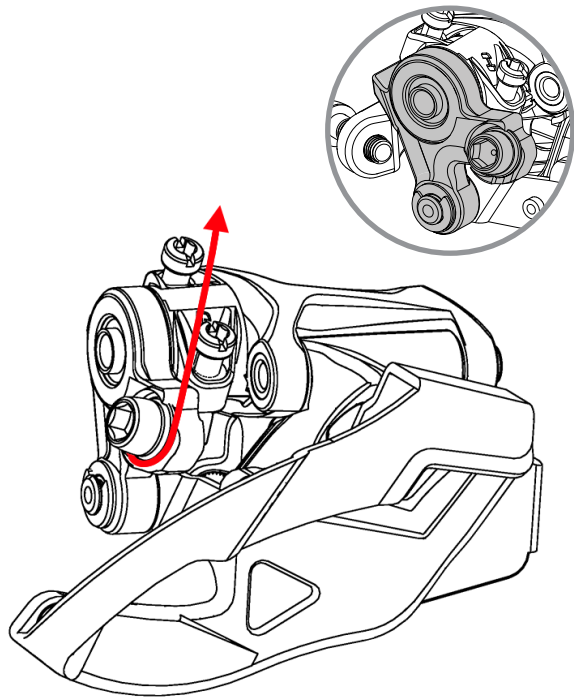
DP = Dual pull link  
TP = Top pull only link  
BP = Bottom pull only link

			Low Clamp Mount			Low Direct Mount		High Clamp Mount			High Direct Mount		Mid Direct Mount
Model	Type	Chainring Combination	Ø 31.8	Ø 34.9	Ø 38.2	S1	S3	Ø 31.8	Ø 34.9	Ø 38.2	155-160	155	-
X0	2x10	42/28 39/26	TP   BP <sup>1</sup>	TP   BP <sup>1</sup>	TP   BP <sup>1</sup>	TP   BP	TP   BP	DP <sup>1</sup>	DP <sup>1</sup>	DP <sup>1</sup>	DP	-	-
		38/24 36/22	TP   BP	TP   BP	-	-	TP   BP	DP   TP	DP   TP	DP	DP	TP   BP	-
		34/22	TP   BP	TP   BP	-	-	TP   BP	TP   BP	TP   BP	TP   BP	-	-	TP   BP
	3x10	44/33/22	TP   BP	TP   BP	TP   BP	TP   BP	TP   BP	DP   TP	DP   TP	DP	DP   TP	-	-
X9	2x10	42/28 39/26	TP   BP <sup>1</sup>	TP   BP <sup>1</sup>	-	TP   BP	TP   BP	DP <sup>1</sup>	DP <sup>1</sup>	DP <sup>1</sup>	DP	-	-
		38/24 36/22	-	-	-	-	-	-	-	-	-	-	-
	3x10	44/33/22	TP   BP	TP   BP	-	TP   BP	TP   BP	DP	DP	DP	DP	-	-
X7	2x10	42/28 39/26	DP <sup>1</sup>	DP <sup>1</sup>	-	DP	DP	DP   TP	DP   TP	-	DP	-	-
		38/24 36/22	DP	DP	-	-	DP	DP	DP	DP	-	DP   TP	-
		34/22	DP	DP	-	-	DP	DP	DP	DP	-	DP	-
	3x10	44/33/22	DP	DP	-	DP	DP	DP	DP	-	DP   TP	-	-
X5	2x10	42/28 39/26	DP <sup>1</sup>	DP <sup>1</sup>	-	-	DP	DP	DP	DP	-	-	DP
		38/24 36/22	-	-	-	-	DP	DP	DP	DP	-	-	DP
		34/22	DP	DP	-	-	DP	DP	DP	DP	-	DP	-
	3x10	44/33/22	DP <sup>1</sup>	DP <sup>1</sup>	-	-	DP	DP	DP	DP	-	DP	-

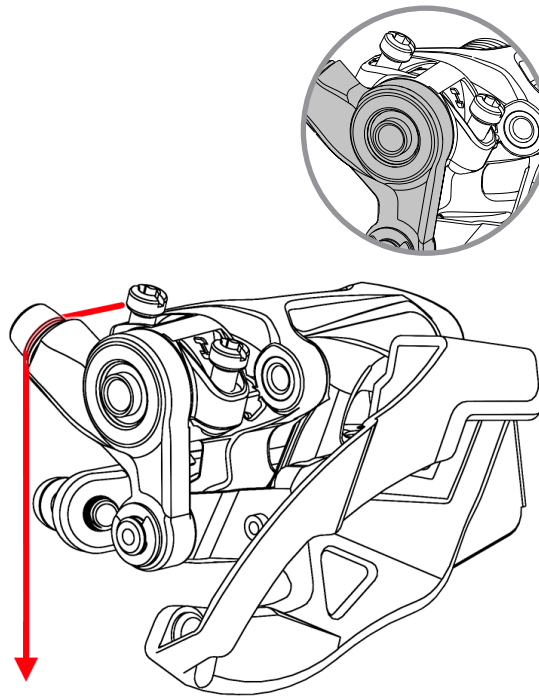
<sup>1</sup>Includes 48/32

# X0™ / X9™ / X7™ / X5™ Front Derailleurs - Low Clamp Mount

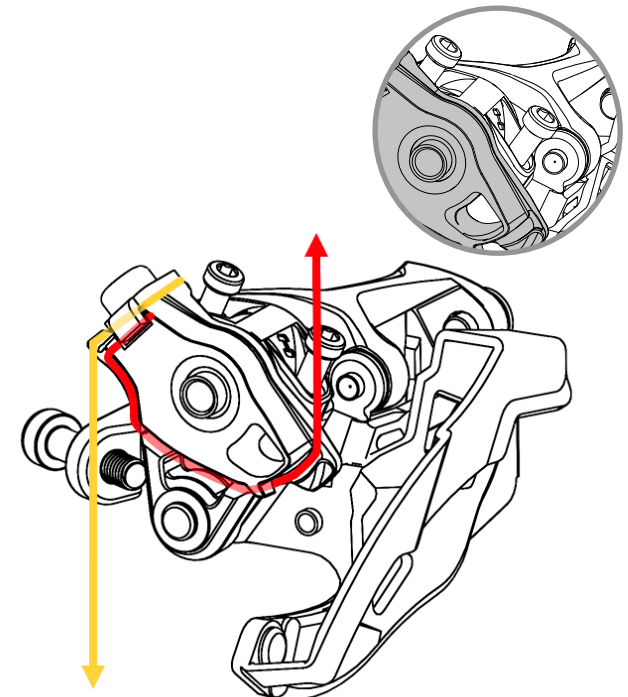
Front Derailleur - Low Clamp Mount Frame Compatibility and Capacity Information						
	Clamp Diameter	Rear Capacity	Index	Cable Routing	Chainstay Angle ( $\alpha^3$ )	Chainline
2x10	31.8 mm [w/ adapter] 34.9 mm 38.2 mm	10 speed	Yes	Top Pull Bottom Pull Dual Pull	66° - 69°	49.0 mm [34/22, 36/22, 38/24] 49.5 mm [39/26, 42/28]
13	31.8 mm [w/ adapter] 34.9 mm 38.2 mm	10 speed	Yes	Top Pull Bottom Pull Dual Pull	66° - 69°	51 mm [44/33/22]



Top Pull



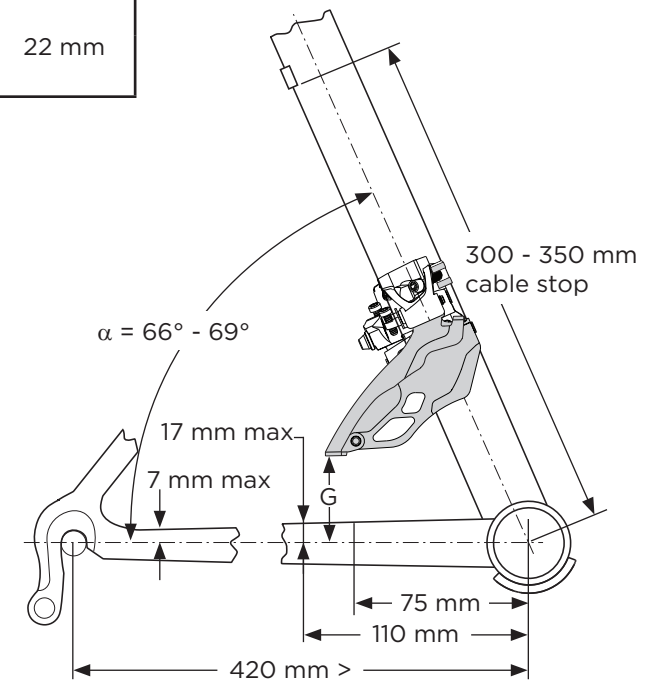
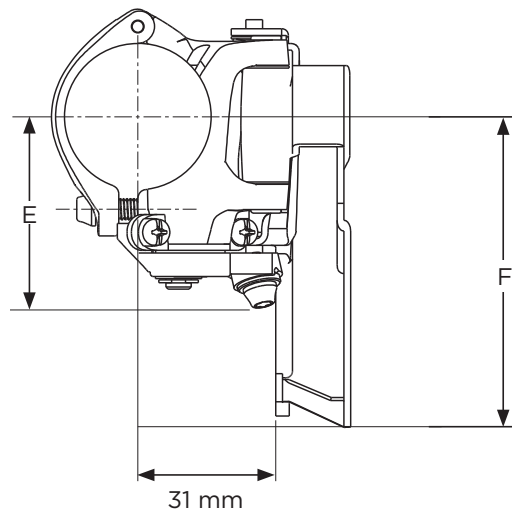
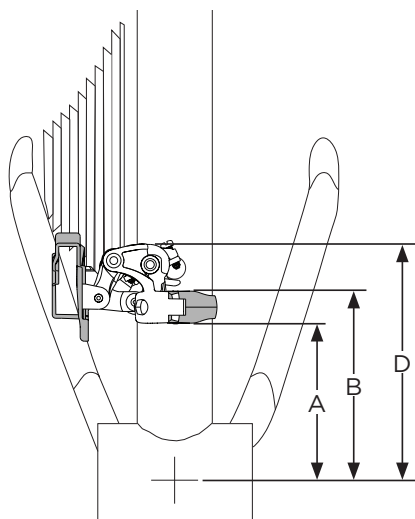
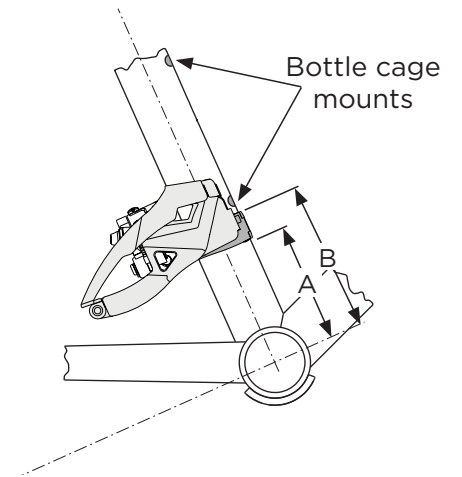
Bottom Pull



Dual Pull

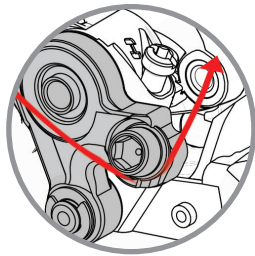
# X0™ / X9™ / X7™ / X5™ Front Derailleurs - Low Clamp Mount

Low Clamp Mount Dimensions								
Chainring Combination	Cable Pull	A	B	D	E	F	G	
							$\alpha = 66^\circ$	$\alpha = 69^\circ$
34/22	Top and Bottom Pull	62 mm	82 mm	107 mm	48/42 mm	65 mm	22 mm	26 mm
	Dual Pull				44 mm			
36/22	Top and Bottom Pull	58 mm	78 mm	103 mm	48 mm	70 mm	18 mm	21 mm
	Dual Pull				46 mm			
38/24	Top and Bottom Pull	62 mm	82 mm	107 mm	48 mm	70 mm	22 mm	26 mm
	Dual Pull				46 mm			
39/26	Top and Bottom Pull	56 mm	76 mm	101 mm	48 mm	74 mm	16 mm	21 mm
	Dual Pull				46 mm			
42/28	Top and Bottom Pull	62 mm	82 mm	107 mm	48 mm	74 mm	22 mm	27 mm
	Dual Pull				46 mm			
44/33/22	Top and Bottom Pull	65 mm	85 mm	110 mm	48 mm	89 mm	17 mm	22 mm
	Dual Pull				46 mm			

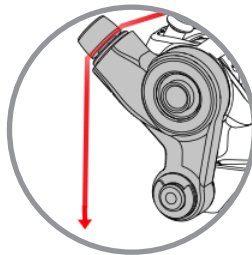


# X0™ / X9™ / X7™ / X5™ Front Derailleurs - Low Direct Mount

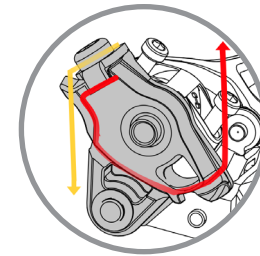
Front Derailleur - Low Direct Mount Frame Compatibility and Capacity Information					
Low Direct Mount	Rear Capacity	Index	Cable Routing	Chainstay Angle ( $\alpha^\circ$ )	Chainline
		10 speed	Yes	Top Pull Bottom Pull Dual Pull	66° - 69°



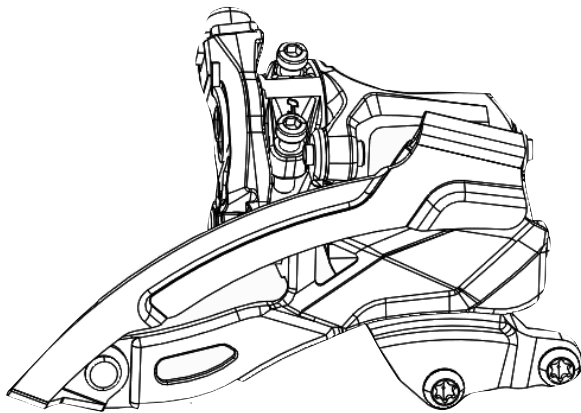
Top Pull



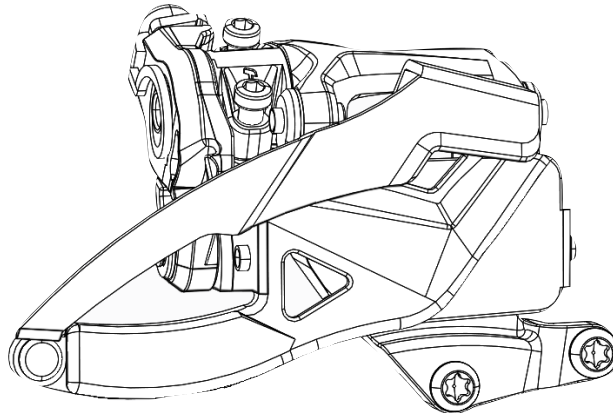
Bottom Pull



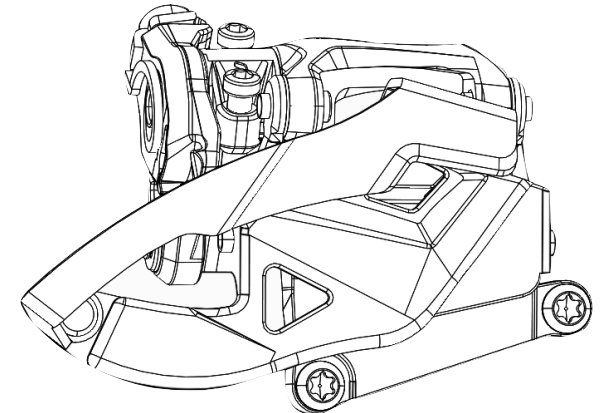
Dual Pull



S3 - Standard  
3 x 10 51 mm [44/33/22] Dual Pull



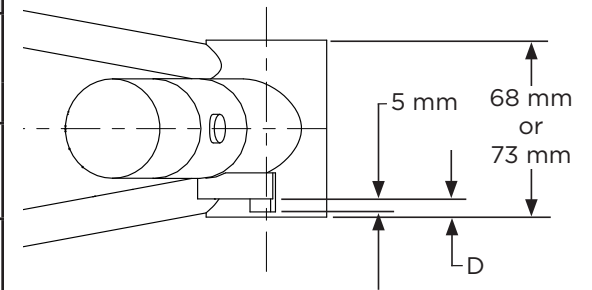
S3 - Standard  
2 x 10 49.5 mm [39/26, 42/28] Dual Pull



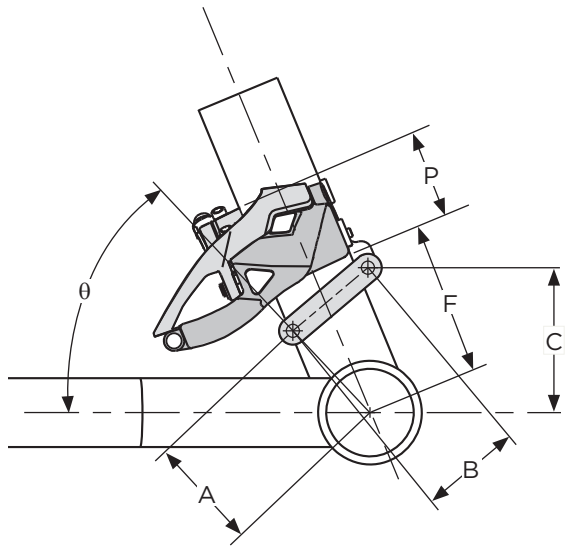
S1 - Standard  
2 x 10 49.0 mm [34/22, 36/22, 38/24] Dual Pull

# X0™ / X9™ / X7™ / X5™ Front Derailleurs - Low Direct Mount

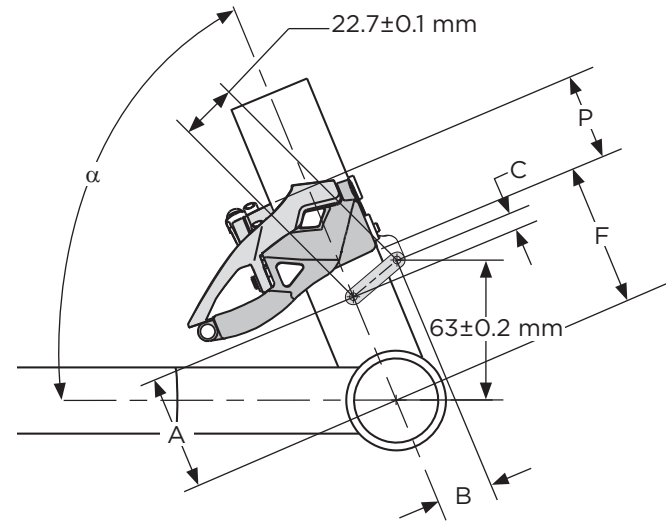
Mounting Hole Position - Swing Arm Fully Extended										
	A	B	C	D (BB shell width)		E	F	P	$\alpha/\theta$	
				68 mm	73 mm					
Low Direct Mount	S1	48.9 mm $\pm 0.15$	42.7 mm $\pm 0.1$	63 mm $\pm 0.2$	14.8 mm $\pm 0.15$	17.3 mm $\pm 0.15$	-	65 mm	48 mm	$\theta = 45.5^\circ \pm 1^\circ$
	S3	54 mm $\pm 0.15$	22.1 mm $\pm 0.05$	5 mm $\pm 0.05$	7 mm $\pm 0.15$	9.5 mm $\pm 0.15$	5 mm $\pm 0.1$			$\alpha = 66^\circ - 69^\circ$



Low Direct Mount Type : S1

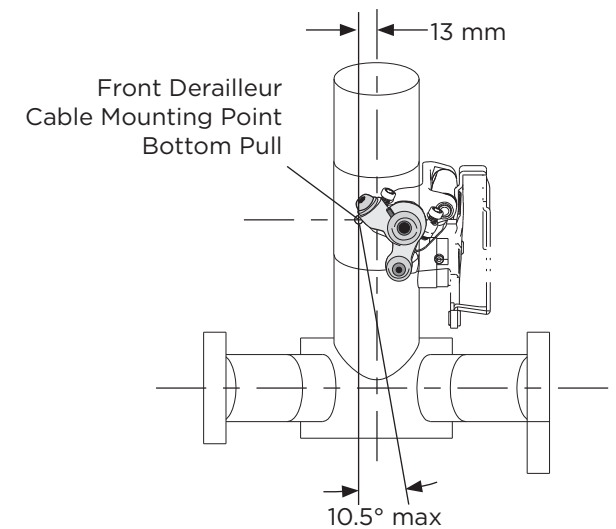
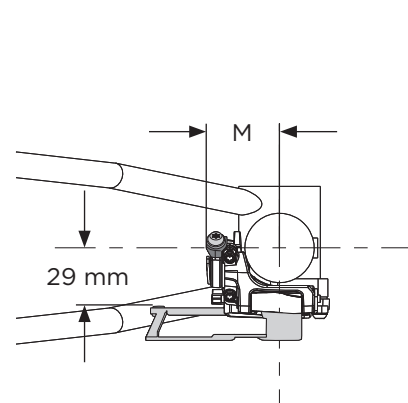
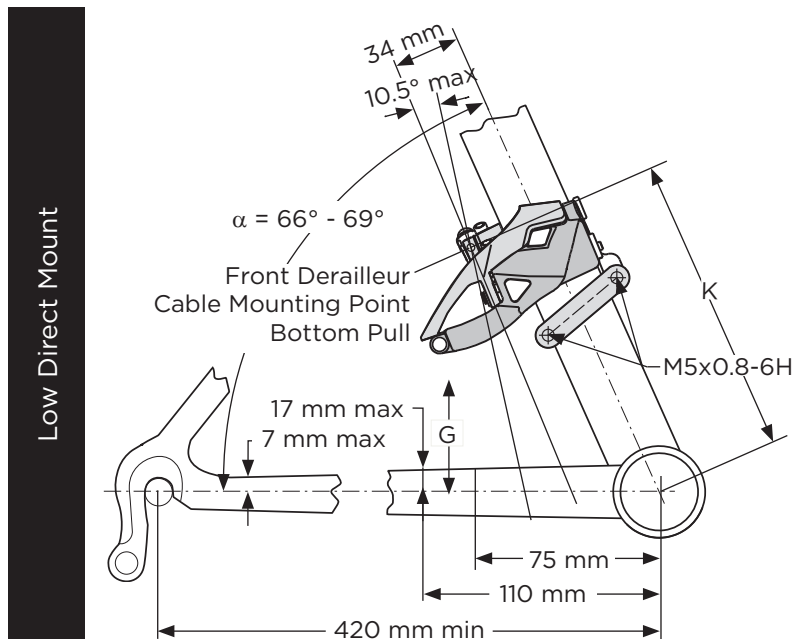


Low Direct Mount Type : S3



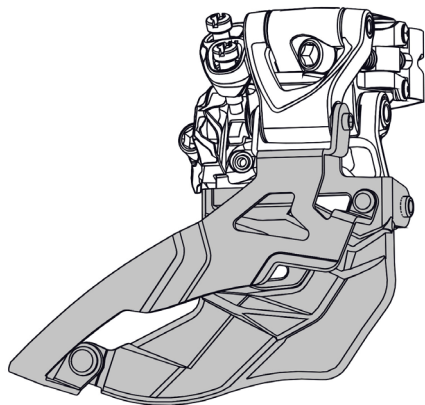
# X0™ / X9™ / X7™ / X5™ Front Derailleurs - Low Direct Mount

Front Derailleur Cable Routing - Bottom Pull (Swing arm fully extended)				
Chainring Size	G		K	M
	$\alpha = 66^\circ$	$\alpha = 69^\circ$		
34/22	22 mm	26 mm	104 mm	42 mm
36/22	18 mm	21 mm	88 mm	
38/24	22 mm	26 mm	92 mm	
39/26	16 mm	21 mm	94 mm	
42/28	22 mm	27 mm	100 mm	
44/33/22	17 mm	22 mm	104 mm	45 mm

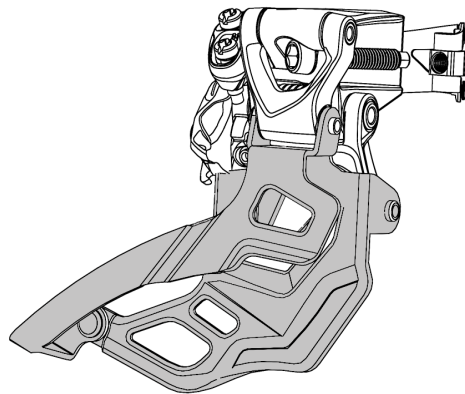


# X0™ / X9™ / X7™ / X5™ Front Derailleurs - High Clamp Mount

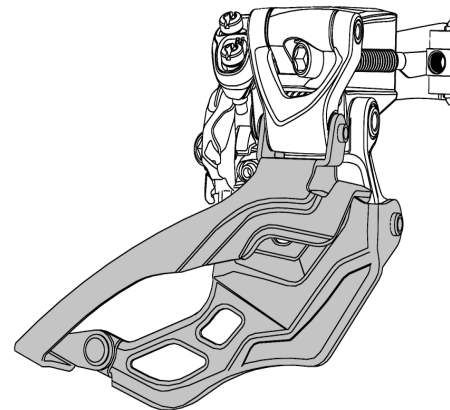
Front Derailleur - High Clamp Mount Frame Compatibility and Capacity Information						
	Clamp Diameter	Rear Capacity	Index	Cable Routing	Chainstay Angle ( $\alpha^3$ )	Chainline
2x10	31.8 mm Band Clamp 31.8 mm [w/ adapter] Body Clamp 34.9 mm Band Clamp 34.9 mm Body Clamp 38.2 mm Band Clamp	10 speed	Yes	Top Pull Dual Pull Bottom Pull	66° - 69°	49.0 mm [34/22, 36/22, 38/24] 49.5 mm [39/26, 42/28]
3x10	31.8 mm Band Clamp 31.8 mm [w/ adapter] Body Clamp 34.9 mm Band Clamp 34.9 mm Body Clamp 38.2 mm Band Clamp	10 speed	Yes	Top Pull or Dual Pull	66° - 69°	51 mm [44/33/22]



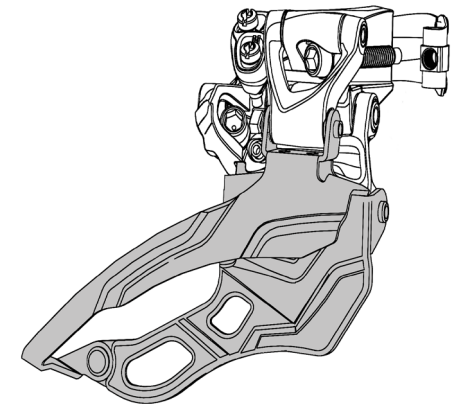
34/22 Cage



36/22 and 38/24 Cage



39/26 and 42/28 Cage



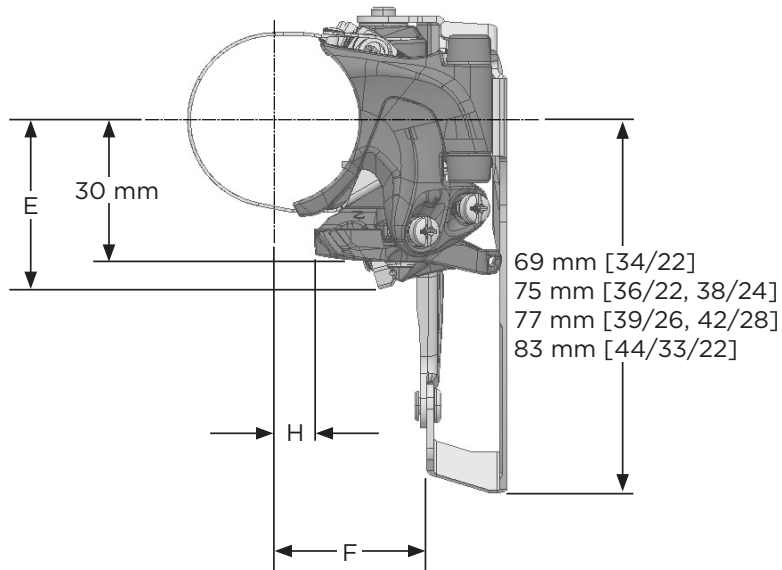
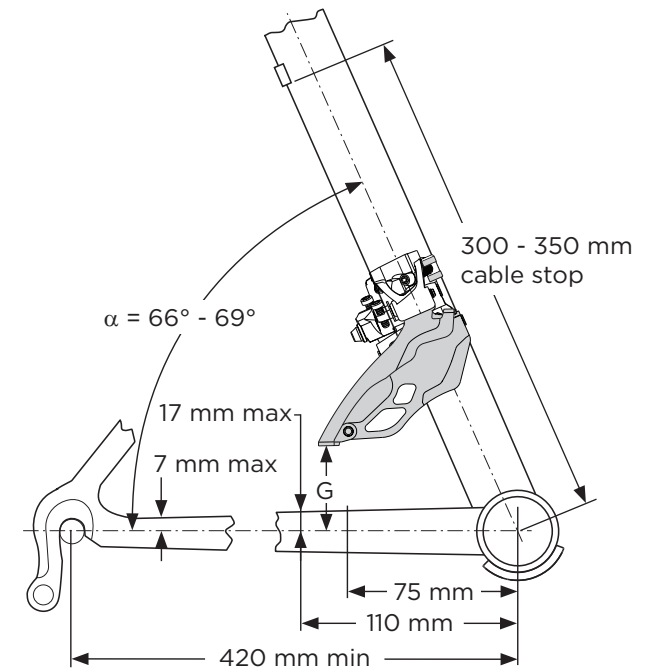
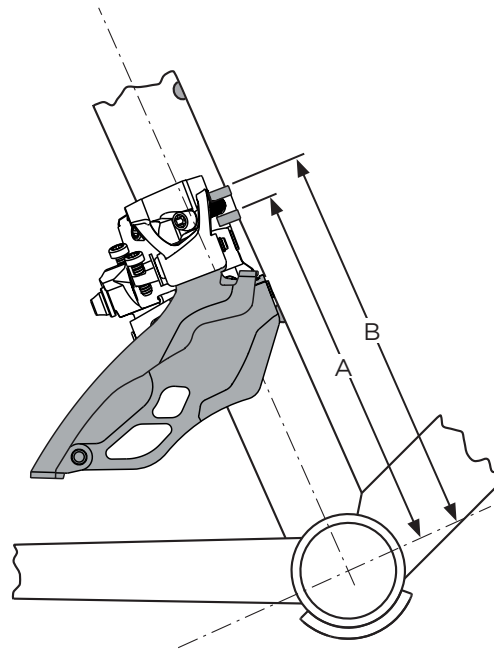
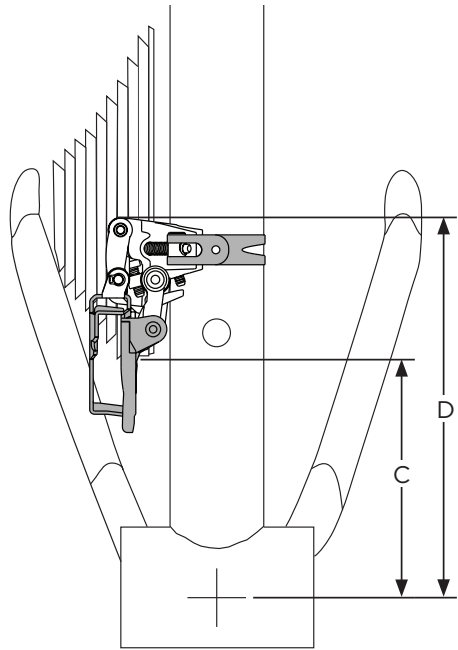
44/33/22 Cage

# X0™ / X9™ / X7™ / X5™ Front Derailleurs - High Clamp Mount

High Clamp Dimensions											
Chainring Combination	Cable Pull	Clamp Version	A	B	C	D	E	F	G		H
									$\alpha = 66^\circ$	$\alpha = 69^\circ$	
34/22	Top Pull	Band Clamp	118 mm	142 mm	88 mm	143 mm	34 mm	38 mm	22 mm	27 mm	12 mm
	Dual Pull	Body Clamp	123 mm								8 mm
36/22	Top Pull	Band Clamp	114 mm	137 mm	84 mm	139 mm	34 mm	33 mm	18 mm	23 mm	12 mm
		Body Clamp	119 mm								7 mm
	Dual Pull	Band Clamp	114 mm								7 mm
		Body Clamp	119 mm								7 mm
38/24	Top Pull	Band Clamp	118 mm	141 mm	88 mm	143 mm	34 mm	33 mm	22 mm	27 mm	12 mm
		Body Clamp	123 mm								7 mm
	Dual Pull	Band Clamp	118 mm								7 mm
		Body Clamp	123 mm								7 mm
39/26	Top Pull	Band Clamp	112 mm	135 mm	82 mm	137 mm	34 mm	33 mm	22 mm	27 mm	12 mm
		Body Clamp	117 mm								7 mm
	Dual Pull	Band Clamp	112 mm								7 mm
		Body Clamp	117 mm								7 mm
42/28	Dual Pull	Band Clamp	118 mm	141 mm	88 mm	143 mm	34 mm	33 mm	28 mm	33 mm	7 mm
		Body Clamp	123 mm								7 mm
44/33/22	Top Pull	Band Clamp	129 mm	148 mm	98 mm	151 mm	36 mm	31 mm	24 mm	29 mm	13 mm
		Body Clamp	129 mm								5 mm
	Dual Pull	Band Clamp	129 mm								5 mm
		Body Clamp	132 mm								5 mm

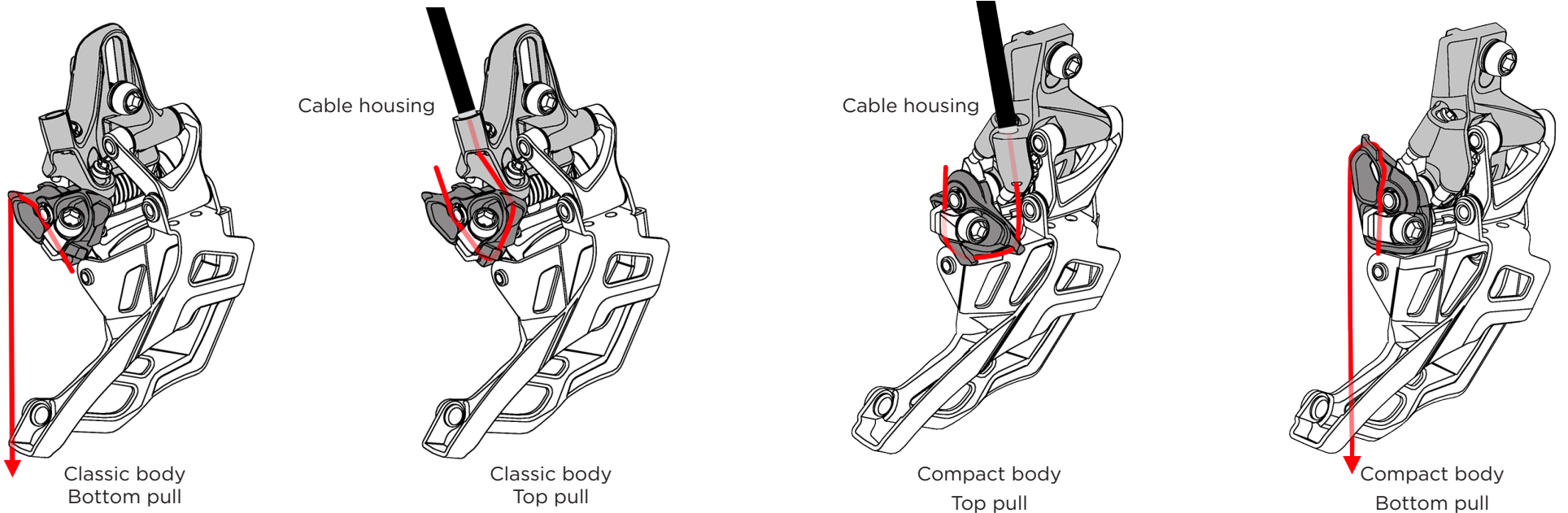


# X0™ / X9™ / X7™ / X5™ Front Derailleurs - High Clamp Mount



# X0™ / X9™ / X7™ / X5™ Front Derailleurs - High Direct Mount

Front Derailleur - High Direct Mount Frame Compatibility and Capacity Information					
	Rear Capacity	Index	Cable Routing	Chain Stay Angle $\alpha$	Chainline
Classic Body	10 speed	Yes	Top Pull or Dual Pull	66° - 69°	49 mm [36/22, 38/24] 49.5 mm [39/26, 42/28] 51 mm [44/33/22]
Compact Body	10 speed	Yes	Top Pull Bottom Pull Dual Pull	66° - 69°	49 mm [34/22, 36/22, 38/24] 49.5 mm [39/26, 42/28]

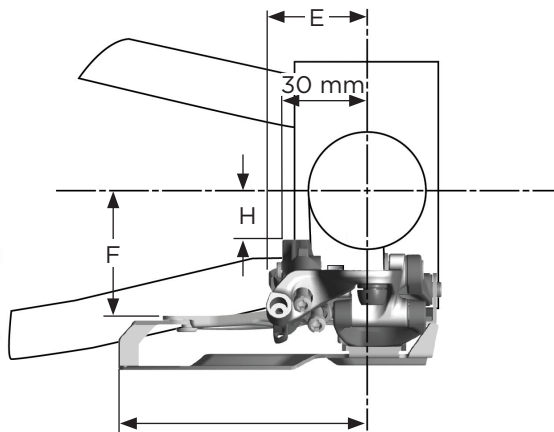
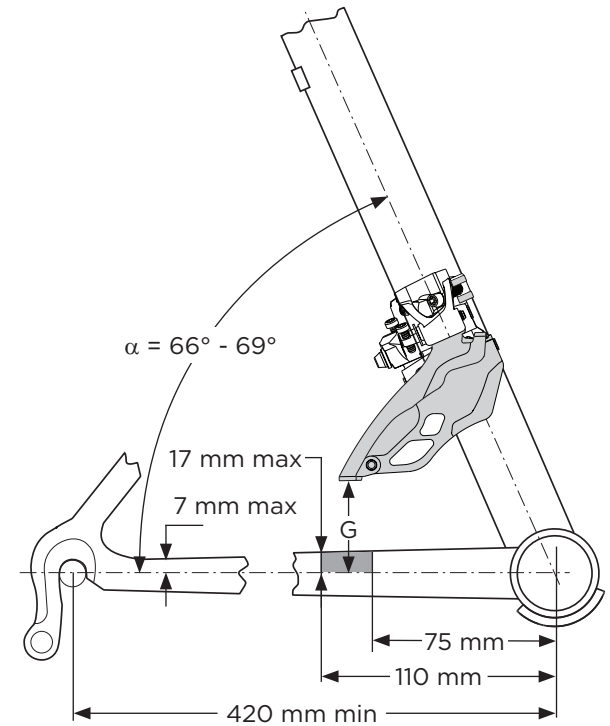
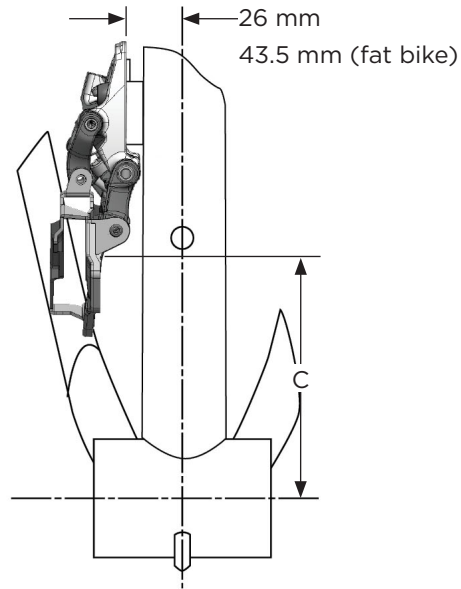
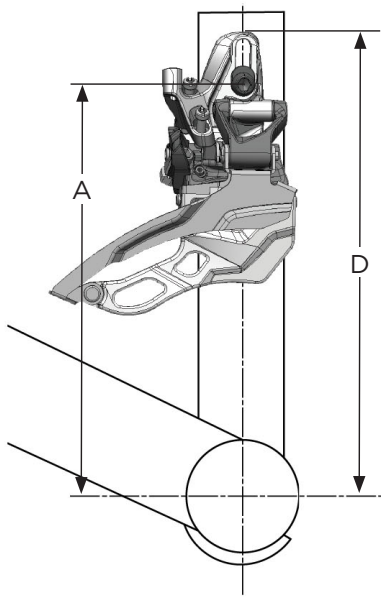


# X0™ / X9™ / X7™ / X5™ Front Derailleurs - High Direct Mount

High Direct Mount Dimensions										
Chainring Combination	Cable Pull by Body Style		A	C	D	E	F	G		H
	Compact	Classic						$\alpha = 66^\circ$	$\alpha = 69^\circ$	
34/22	Top Pull	-	155 mm Compact	88 mm	163 mm Compact	34 mm	38 mm 55.5 mm (fat bike)	22 mm	27 mm	12 mm 29.5 mm (fat bike)
	Bottom Pull									8mm 25.5 mm (fat bike)
	Dual Pull									8mm 25.5 mm (fat bike)
36/22	Top Pull	Top Pull	155 mm Compact 155 - 160 mm Classic	84 mm	164 mm Compact 168 mm Classic	34 mm	33 mm 50.5 mm (fat bike)	18 mm	23 mm	14 mm 31.5 mm (fat bike)
	Bottom Pull	-								7 mm 24.5 mm (fat bike)
	Dual Pull	Dual Pull								7 mm 24.5 mm (fat bike)
38/24	Top Pull	Top Pull	155 mm Compact 155 - 160 mm Classic	88 mm	169 mm Compact 173 mm Classic	34 mm	33 mm 50.5 mm (fat bike)	22 mm	27 mm	14 mm 31.5 mm (fat bike)
	Bottom Pull	-								7 mm 24.5 mm (fat bike)
	Dual Pull	Dual Pull								7 mm 24.5 mm (fat bike)
39/26	Top Pull	Top Pull	155 mm Compact 155 - 160 mm Classic	82 mm	163 mm Compact 167 mm Classic	34 mm	33 mm	22 mm	27 mm	14 mm
	Bottom Pull	-								7 mm
	Dual Pull	Dual Pull								7 mm
42/28	Top Pull	Top Pull	155 mm Compact 155 - 160 mm Classic	88 mm	169 mm Compact 173 mm Classic	34 mm	33 mm	28 mm	33 mm	14 mm
	Bottom Pull	-								7 mm
	Dual Pull	Dual Pull								7 mm
44/33/22	-	Top Pull	155 - 160 mm	98 mm	180 mm	36 mm	31 mm	24 mm	29 mm	14 mm
	-	Dual Pull								6 mm

# X0™ / X9™ / X7™ / X5™ Front Derailleurs - High Direct Mount

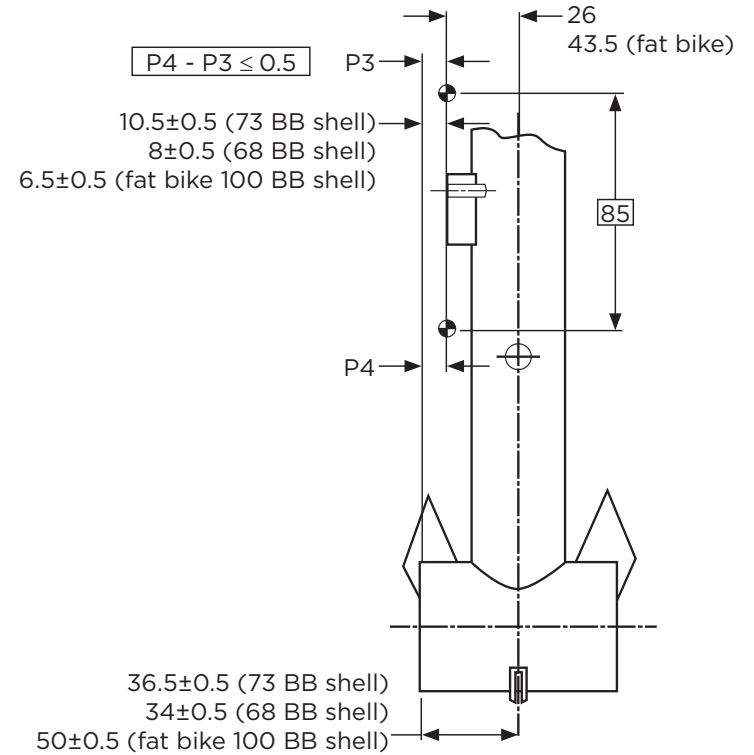
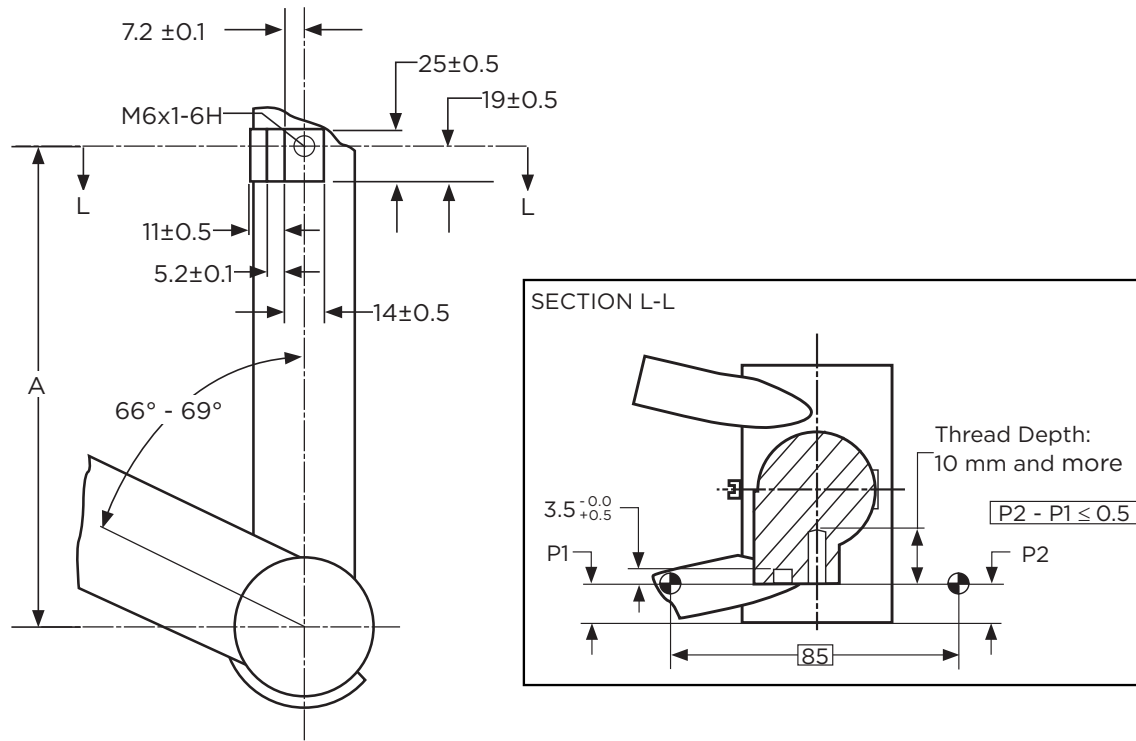
High Direct Mount Frame Build Requirements for Standard and Fat Bikes



69 mm [34/22]  
 75 mm [36/22, 38/24]  
 77 mm [39/26, 42/28]  
 83 mm [44/33/22]

# X0™ / X9™ / X7™ / X5™ Front Derailleurs - High Direct Mount

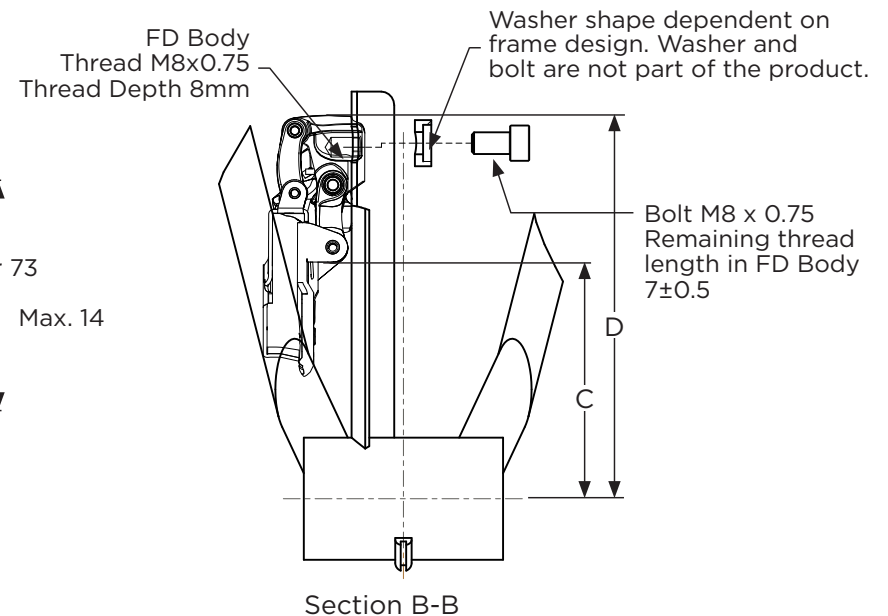
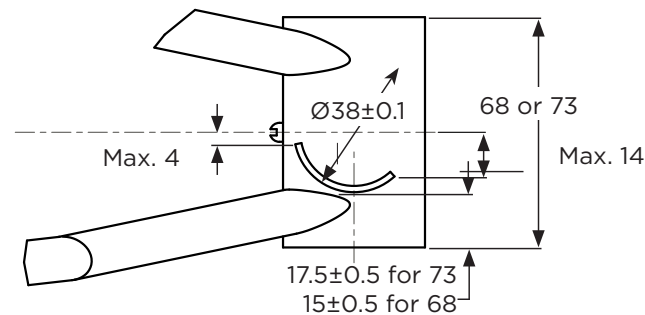
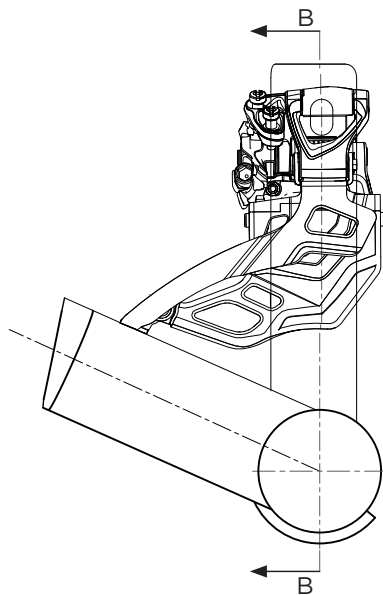
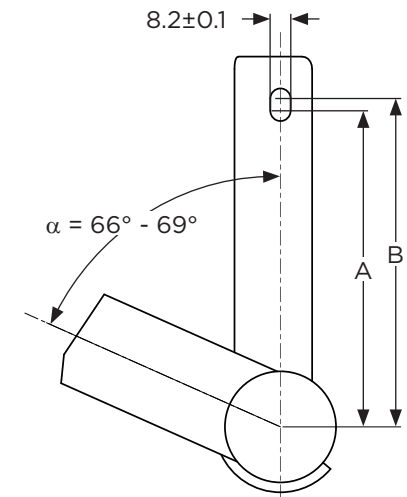
High Direct Mount Frame Build Requirements for Standard and Fat Bikes



# X0™ / X9™ / X7™ / X5™ Front Derailleurs - Mid Direct Mount

Front Derailleur - Mid Direct Mount						
Chaining Combination	Cage Design	Guard	Mounting Slot		Mounting Area (38 mm Diameter Required)	
			A	B	C	D
34/22	2 x 10 Speed 34/22 T	Yes	129.5 mm	131.5 mm	93 mm	148 mm
		No	127 mm	129 mm	88 mm	143 mm
33/22	2 x 10 Speed 38/36 T	Yes	128.5 mm	130.5 mm	84.5 mm	139.5 mm
36/22		Yes	130.5 mm	132.5 mm	86.5 mm	141.5 mm
		No	128 mm	130 mm	84 mm	139 mm
38/24		Yes	135 mm	137 mm	93 mm	148 mm
		No	132.5 mm	134.5 mm	88 mm	143 mm

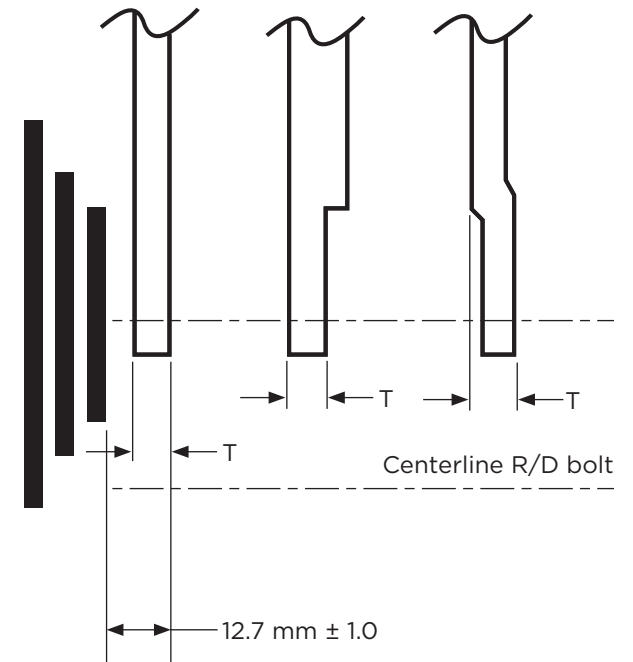
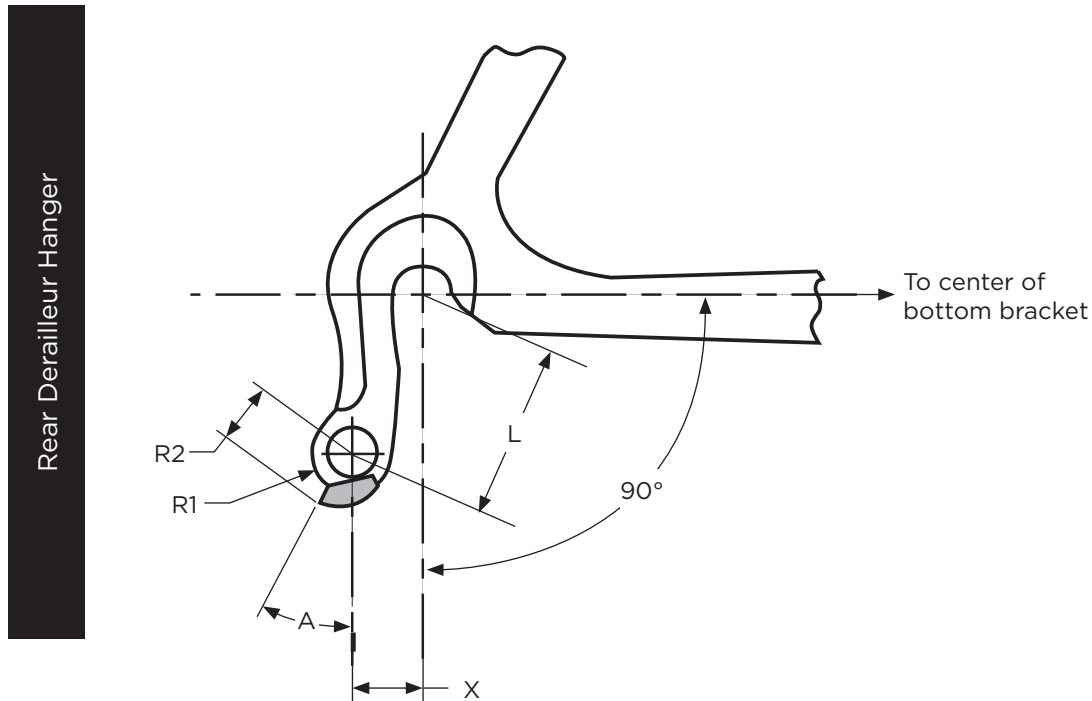
Mid Direct Mount



# Rear Derailleurs

# X0™ / X9™ / X7™ / X5™ Rear Derailleurs

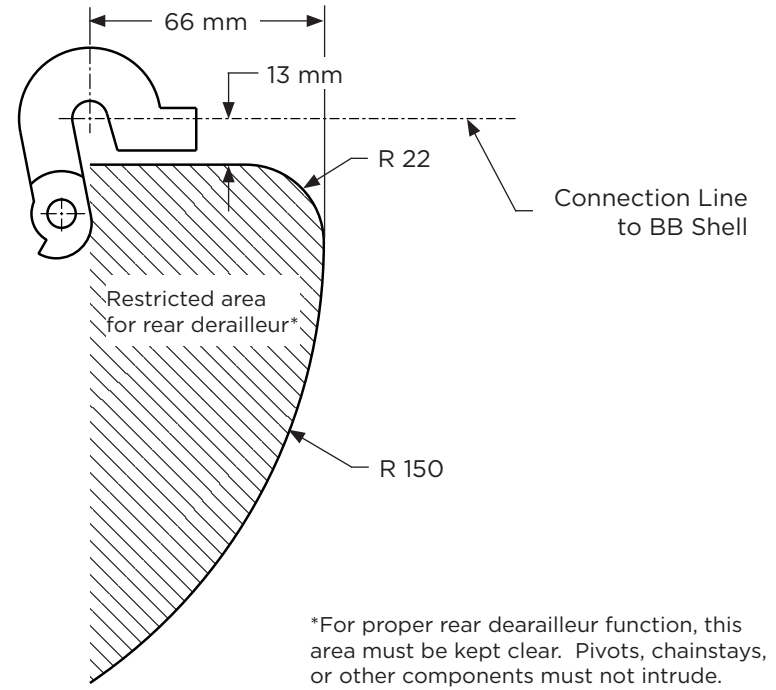
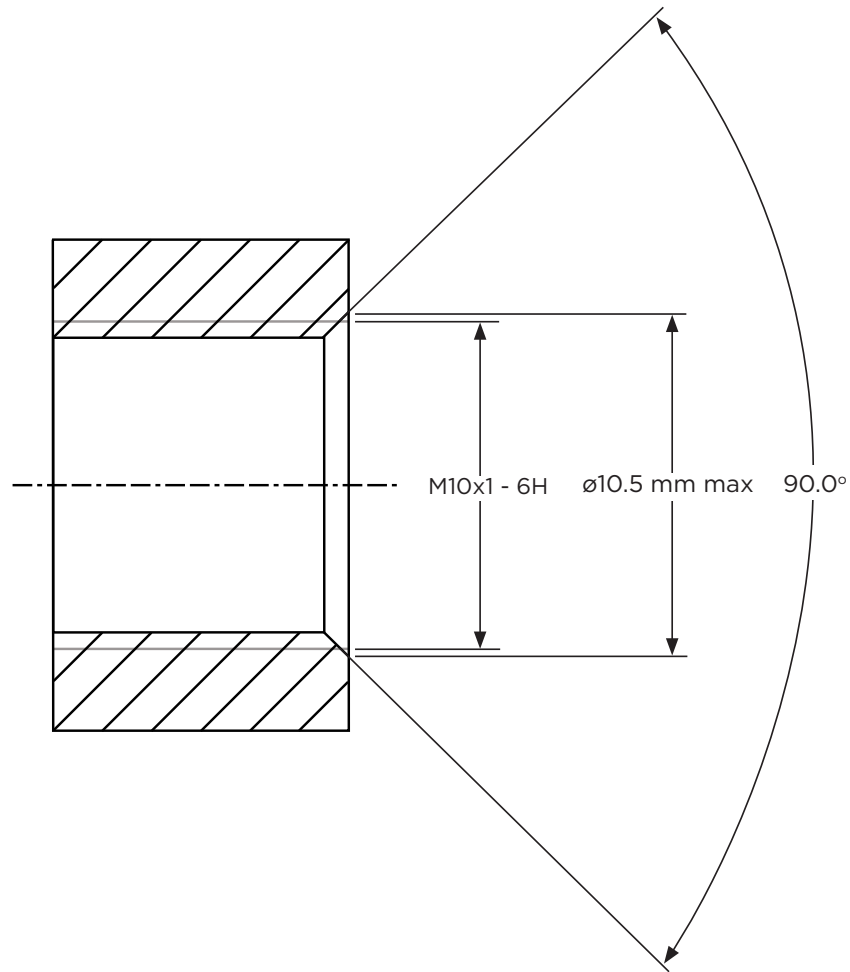
Rear Derailleur Hanger Specifications						
	L	X	A	R1	R2	T
Exact Ratio	28 mm	8-10 mm	25°-30°	8.5 mm (max)	11.5-13.5 mm	7-8 mm
	30 mm	7.5-10 mm				





# X0™ / X9™ / X7™ / X5™ Rear Derailleurs

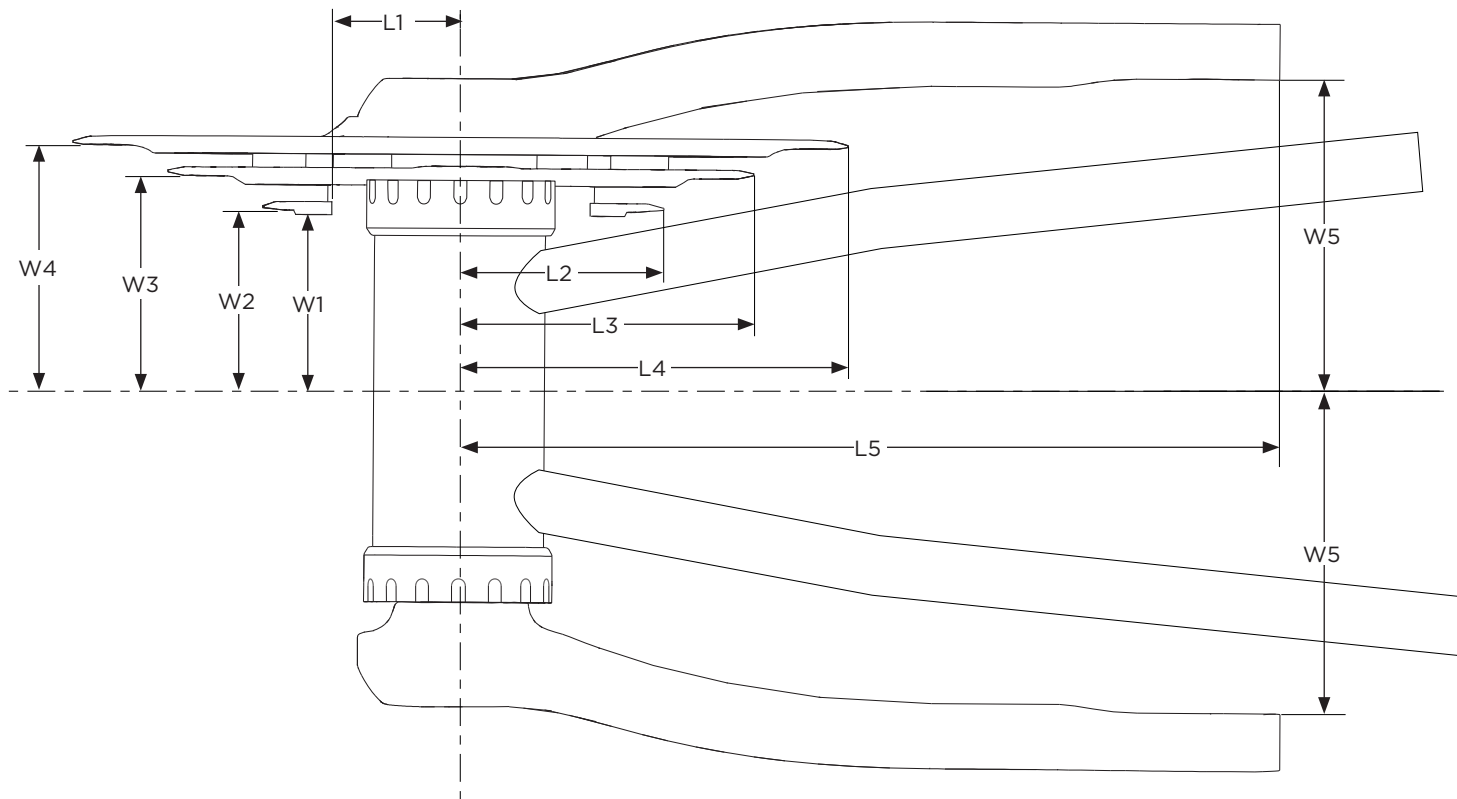
Rear Derailleur Hanger



# Cranksets

# X0 Cranksets [2x10]

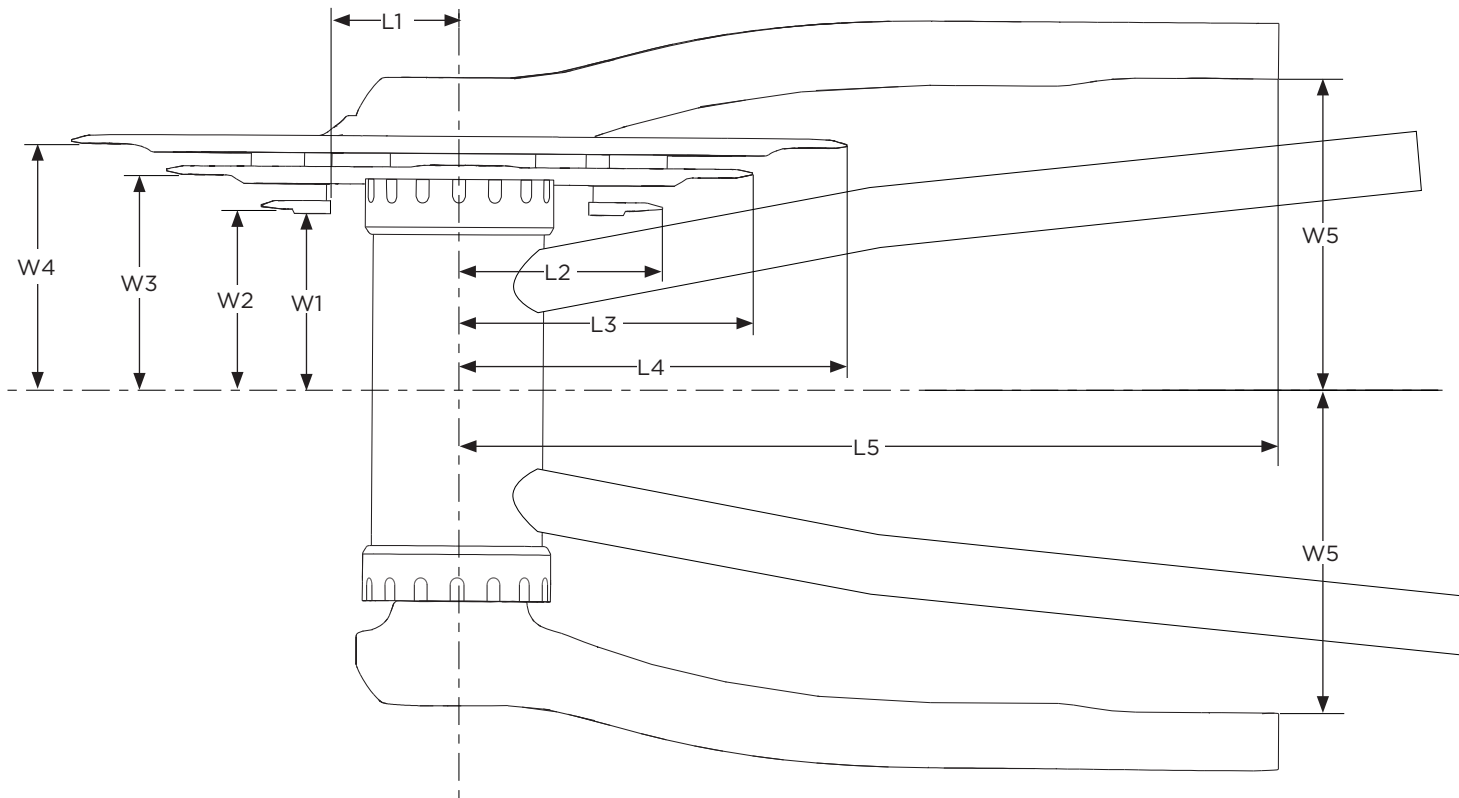
Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
34/22	25 mm	47.8 mm	70.6 mm	73 mm (guard)	192 mm (175 mm crank arm lengths)	43 mm	44 mm	52 mm	57.8 mm (guard)	70.5 mm
36/22	25 mm	46.7 mm	74.4 mm	78 mm (guard)						
38/24	24.5 mm	50.7 mm	78.0 mm	82.5 mm (guard)		43.5 mm	44.5 mm	52.5 mm	-	
39/26	31 mm	55 mm	81 mm	-						
<b>Q-factor :</b>										167.5
<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit™ 30 : PressFit™ GXP MTB										



# X0 Cranksets [3x10]

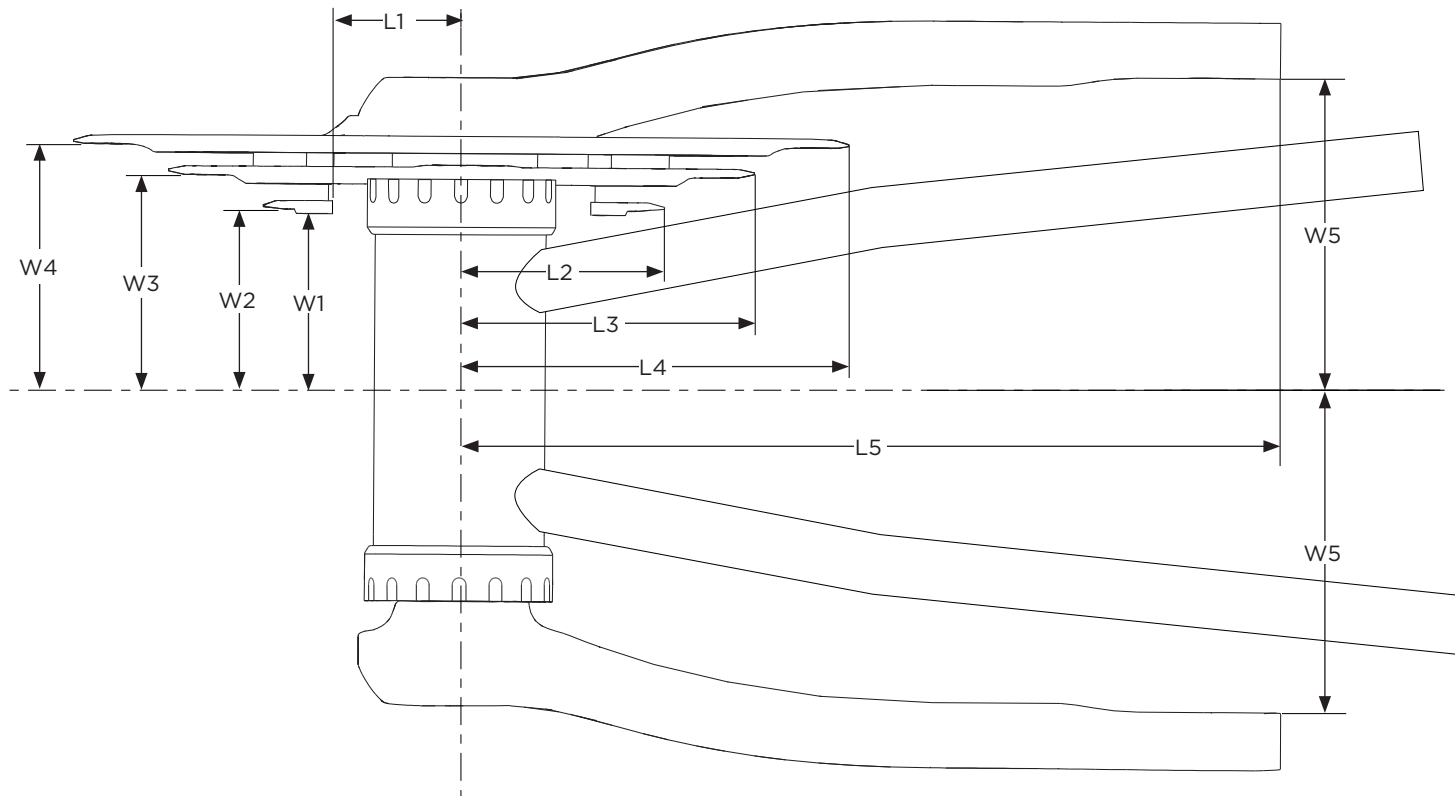
Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
44/33/22	25 mm	47 mm	69 mm	91 mm	192 mm (175 mm crank arm lengths)	41 mm	42 mm	50 mm	57 mm	70.5 mm
										<b>Q-factor :</b> 167.5
<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit 30™ : PressFit™ GXP MTB										

3x10



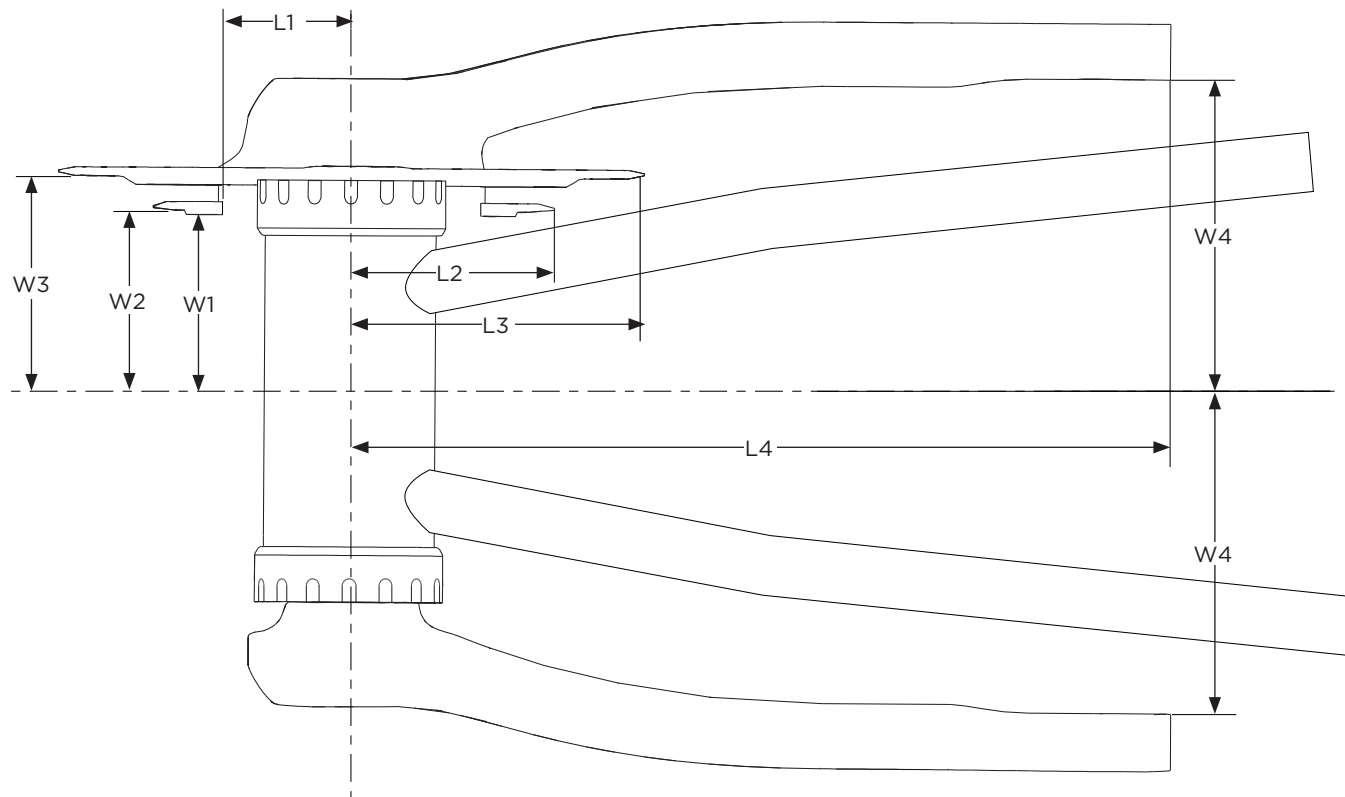
# X9 Cranksets [2x10]

Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
34/22	25 mm	47.8 mm	70.6 mm	73 mm (guard)	192 mm (175 mm crank arm length)	43 mm	44 mm	52 mm	57.8 mm (guard)	70.5 mm
36/22	25 mm	46.7 mm	74.4 mm	78 mm (guard)						72 mm
38/24	24.5 mm	50.7 mm	78 mm	82.5 mm (guard)						
39/26	31 mm	55 mm	81 mm	-		43.5 mm	44.5 mm	52.5 mm	-	
42/28		60 mm	87 mm							
<b>Q-factor :</b>										171
<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit 30™ : PressFit™ GXP MTB										



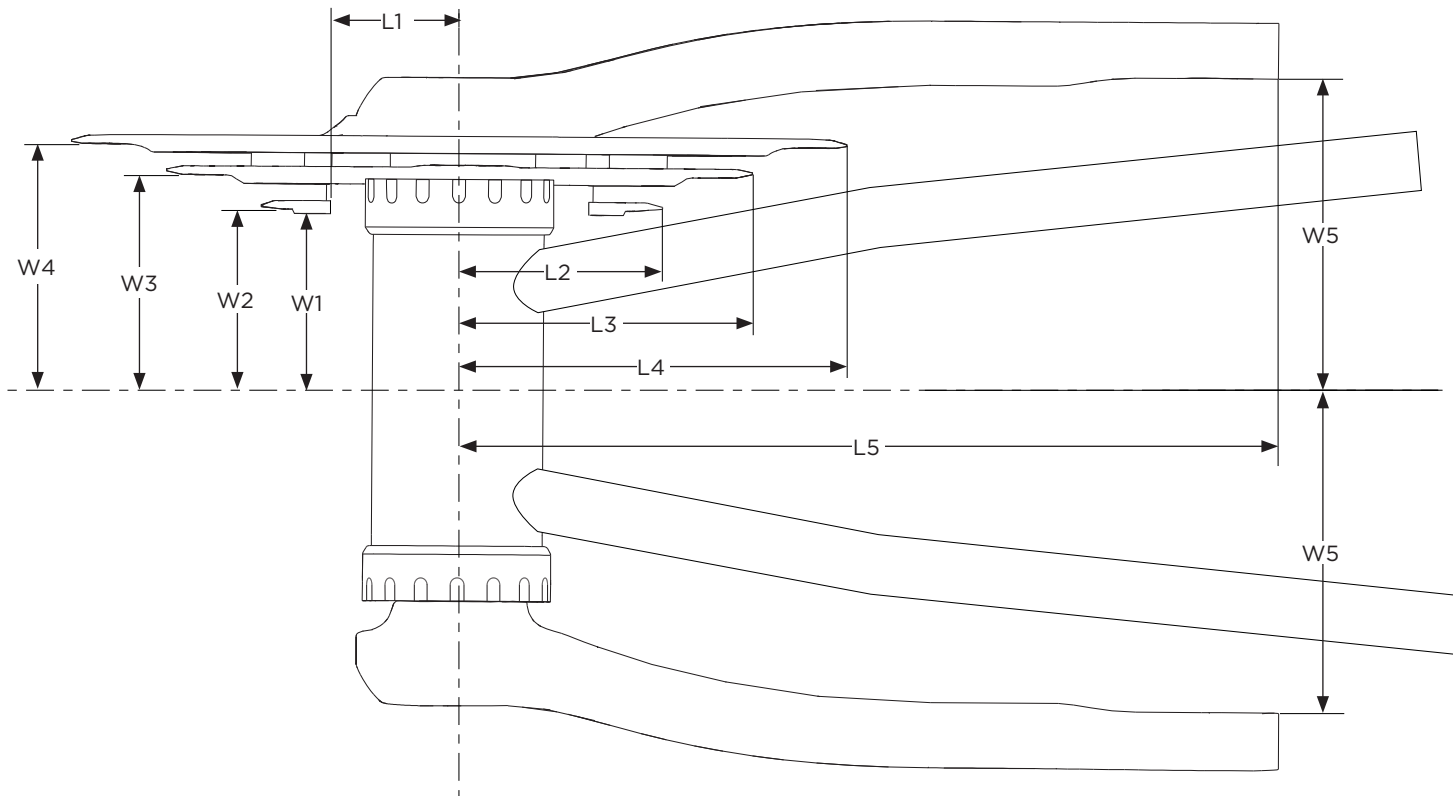
# X9 Cranksets [2x10] for fat bikes

Crankset Frame Clearance Information								
Chainring Combination	L1	L2	L3	L4	W1	W2	W3	W4 (min)
34/22	25 mm	47.8 mm	70.6 mm	192 mm (175 mm crank arm length)	60.5 mm	61.5 mm	69.5 mm	88 mm
36/22		46.7 mm	74.4 mm					
								<b>Q-factor :</b> 203.5
<b>Bottom Bracket Type :</b> GXP® 100 : PressFit™ 121								



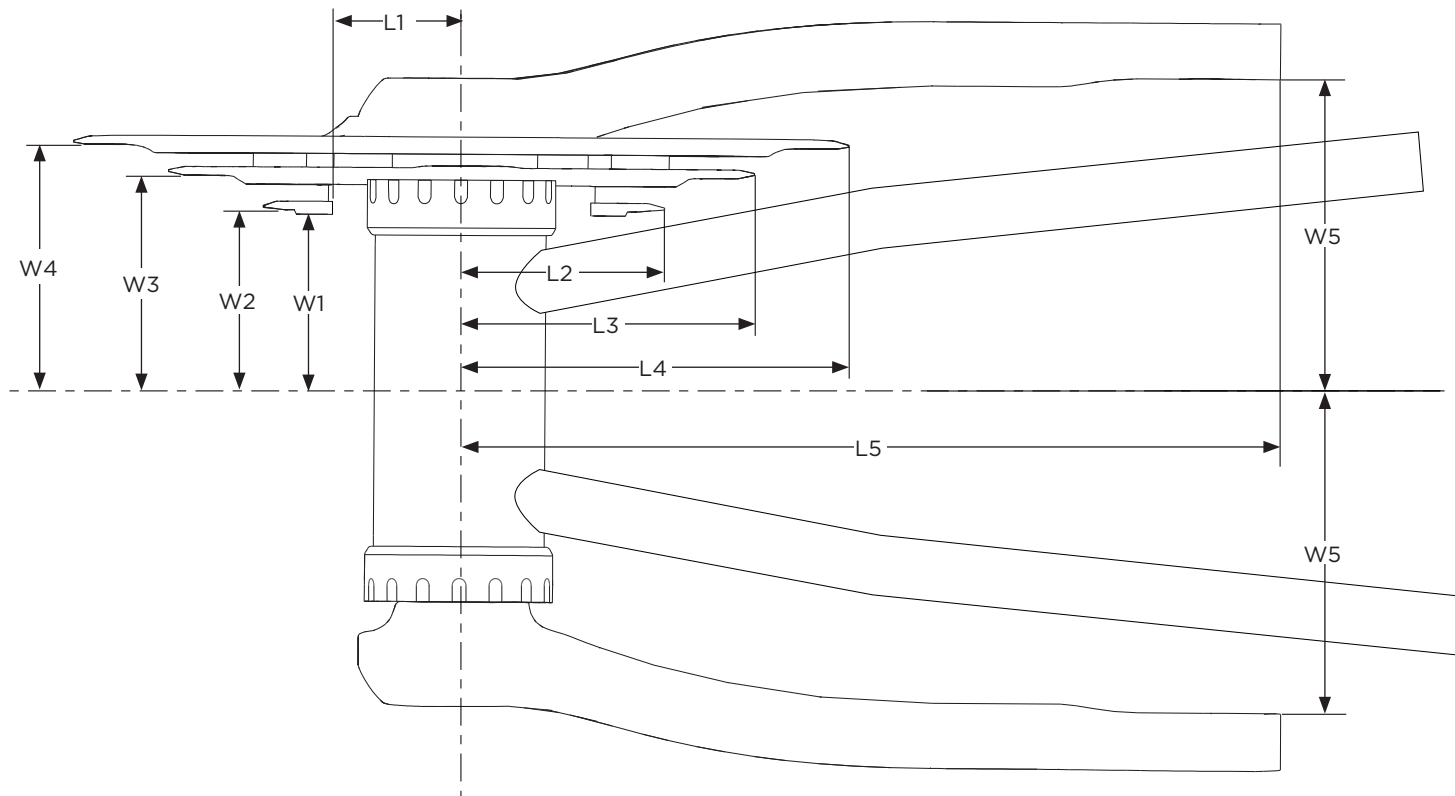
# X9 Cranksets [3x10]

Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
44/33/22	25 mm	47 mm	69 mm	91 mm	192 mm (175 mm crank arm length)	41 mm	42 mm	50 mm	57 mm	72 mm
3x10	<b>Q-factor :</b> 171									
	<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit 30™ : PressFit™ GXP MTB									



# X7 Cranksets [2x10]

Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
34/22	25 mm	47.8 mm	70.6 mm	73 mm (guard)	192 mm (175 mm crank arm length)	43 mm	44 mm	52 mm	57.8 mm (guard)	70.5 mm
36/22		46.7 mm	74.4 mm	78 mm (guard)						
38/24	24.5 mm	50.7 mm	78 mm	82.5 mm (guard)		43.5 mm	44.5 mm	52.5 mm	-	
39/26	31 mm	55 mm	81 mm	-						
42/28		60 mm	87 mm	-		-				
<b>Q-factor :</b> 167.5										
<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit 30™ : PressFit™ GXP MTB										

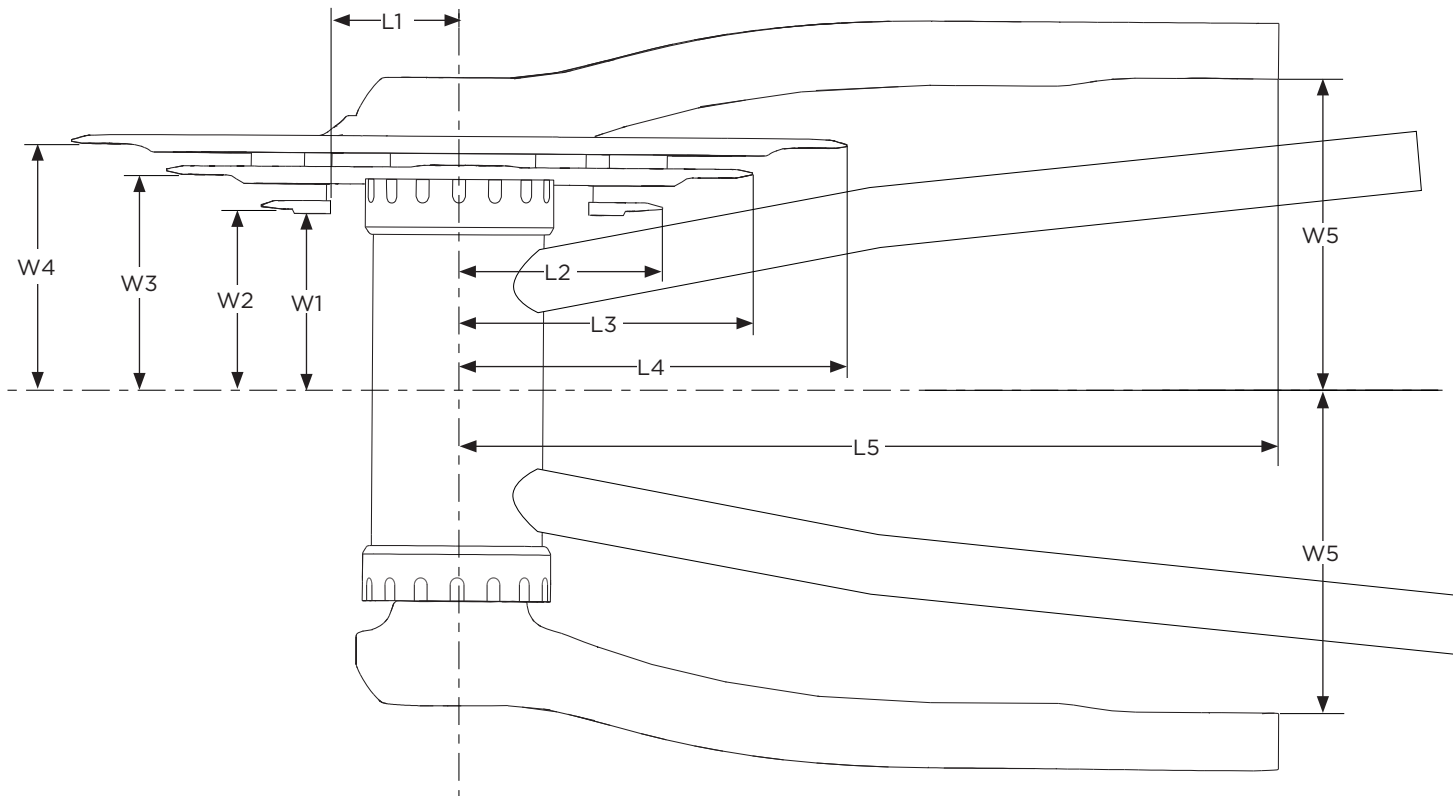




# X7 Cranksets [3x10]

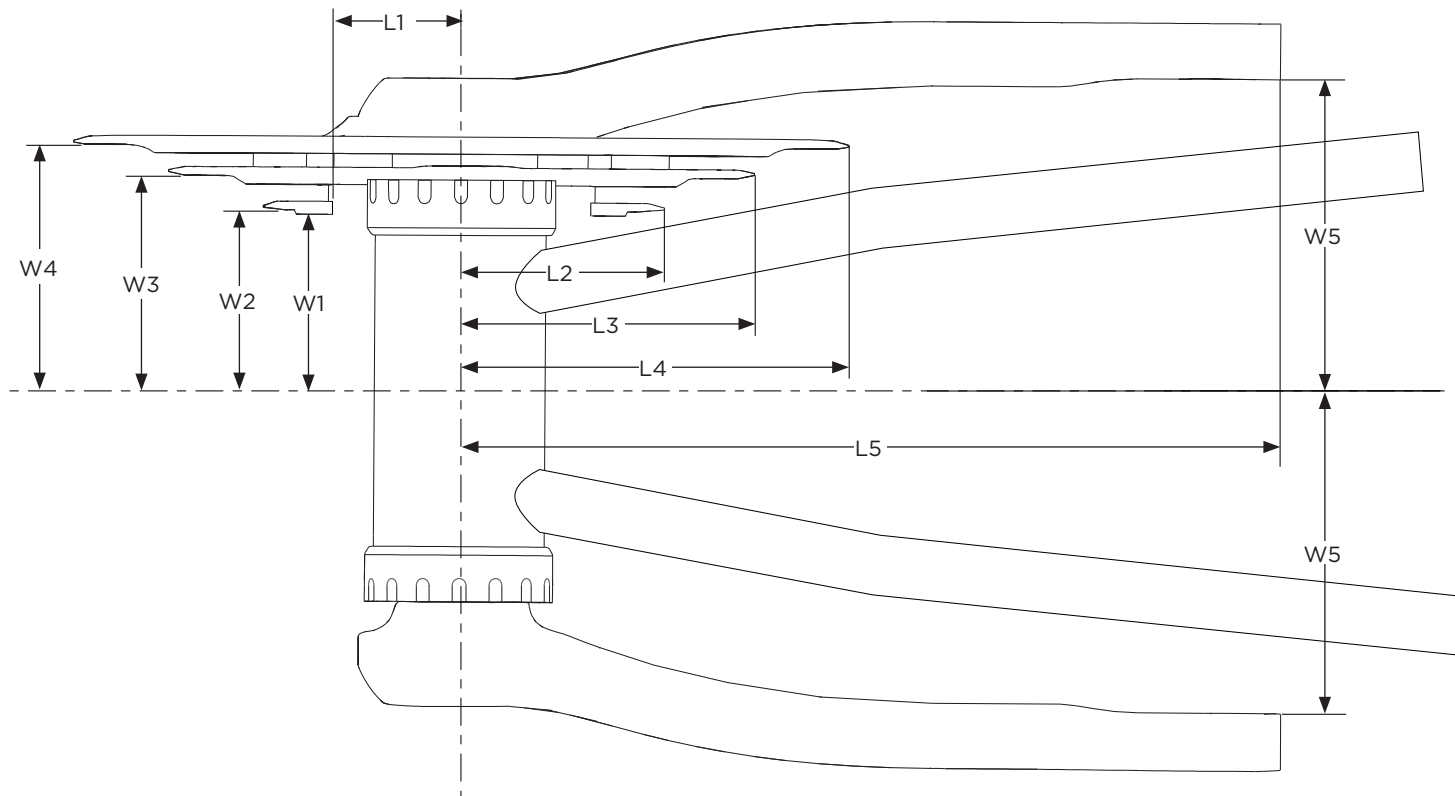
Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
44/33/22	25 mm	47 mm	69 mm	91 mm	191 mm (180 mm crank arm length)	41 mm	42 mm	50 mm	57 mm	70.5 mm
										<b>Q-factor :</b> 167.5
<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit 30™ : PressFit™ GXP MTB										

3x10



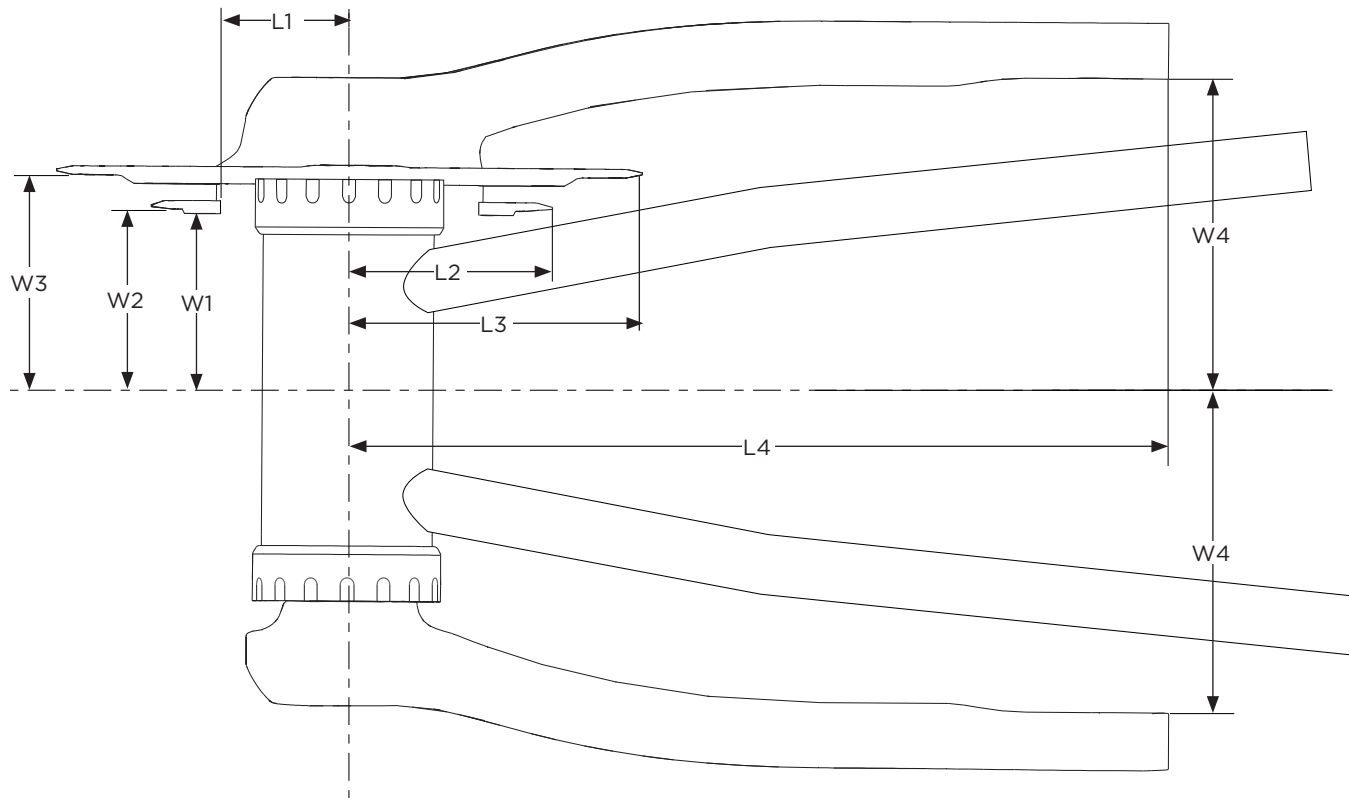
# X5 Cranksets [2x10]

Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
34/22	25 mm	47.8 mm	70.6 mm	73 mm (guard)	192 mm (175 mm crank arm length)	43 mm	44 mm	52 mm	57.8 mm (guard)	70.5 mm
36/22		46.7 mm	74.4 mm	78 mm (guard)				52 mm		72 mm
38/24	24.5 mm	50.7 mm	78 mm	82.5 mm (guard)		43.5 mm	44.5 mm	52.5 mm	-	
39/26	31 mm	55 mm	81 mm	-						
42/28		60 mm	87 mm	-						
<b>Q-factor :</b>										169
<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit 30™ : PressFit™ GXP MTB										



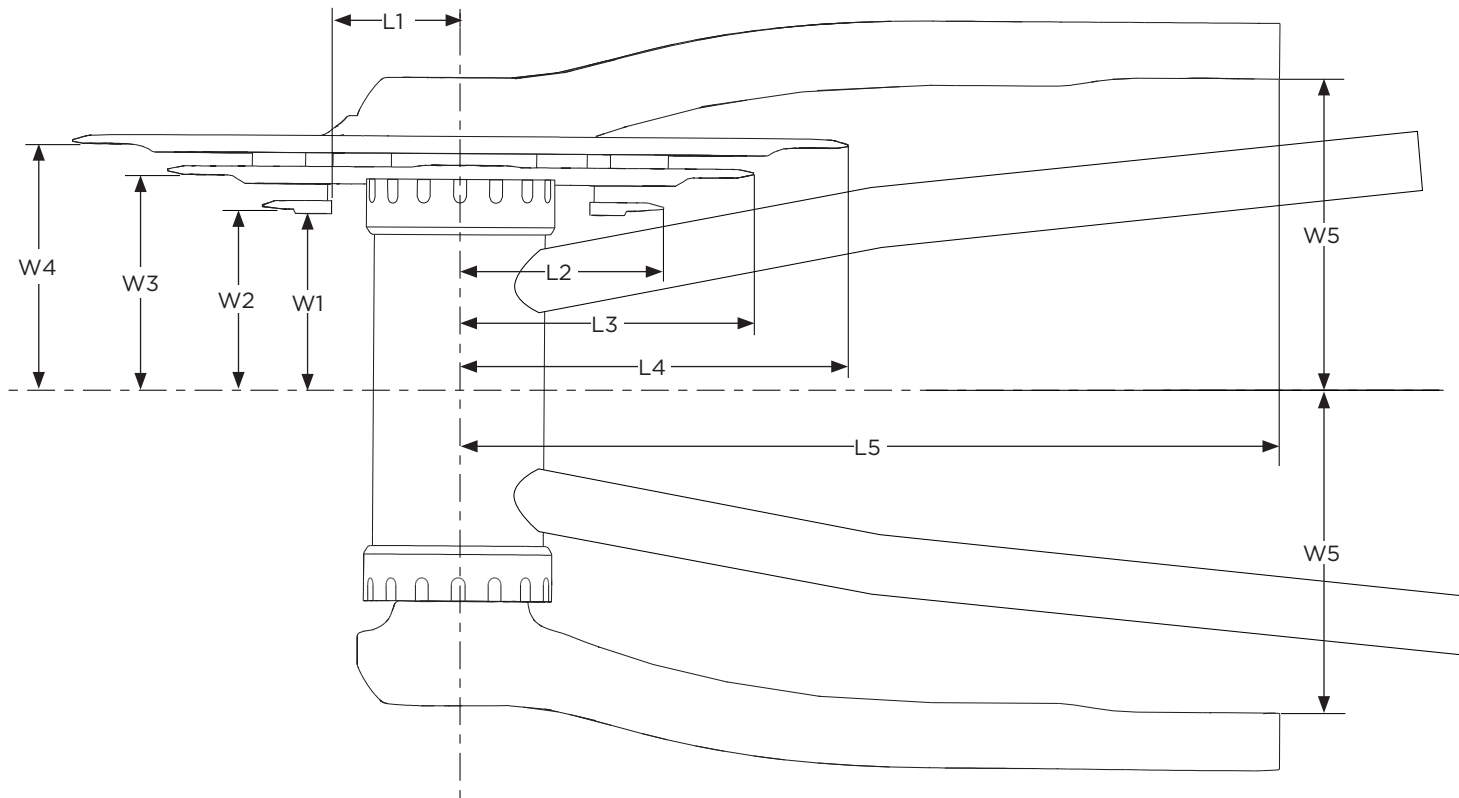
# X5 Cranksets [2x10] for fat bikes

Crankset Frame Clearance Information								
Chainring Combination	L1	L2	L3	L4	W1	W2	W3	W4 (min)
34/22	25 mm	47.8 mm	70.6 mm	192 mm (175 mm crank arm length)	60.5 mm	61.5 mm	69.5 mm	88 mm
36/22		46.7 mm	74.4 mm					
								<b>Q-factor :</b> 202.5
<b>Bottom Bracket Type :</b> GXP® 100 : PressFit™ 121								



# X5 Cranksets [3x10]

Crankset Frame Clearance Information										
Chainring Combination	L1	L2	L3	L4	L5	W1	W2	W3	W4	W5 (min)
44/33/22	25 mm	47 mm	69 mm	91 mm	191 mm (175 mm crank arm length)	41 mm	42 mm	50 mm	57 mm	72 mm
3x10	<b>Q-factor :</b> 169									
	<b>Bottom Bracket Type(s) :</b> GXP® : BB30™ : PressFit 30™ : PressFit™ GXP MTB									



# Bottom Brackets

# PressFit 30™

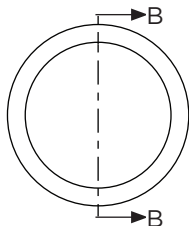
SRAM® PressFit 30™ (PF30) bottom brackets have been designed and tested to work within the bounds of the dimensions and tolerances in the shell specifications and bottom bracket specifications. Materials, manufacturing methods, and frame shell designs can potentially influence the performance of the 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 with individual frame configurations.

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.

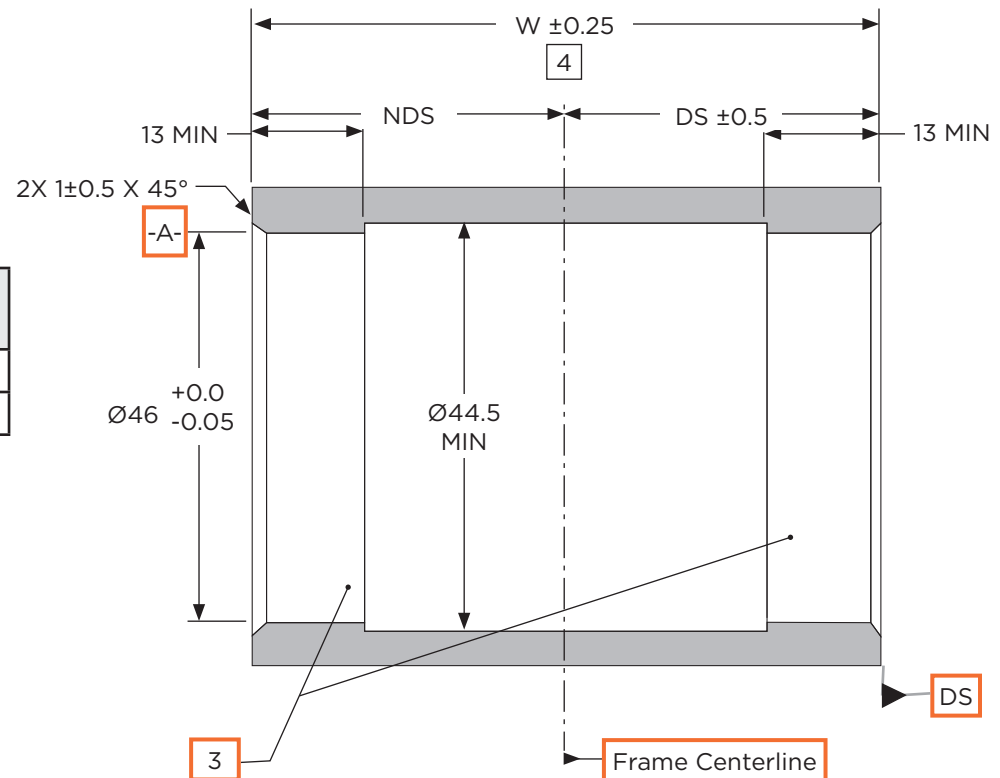
## PressFit 30 MTB BB Shell Specification

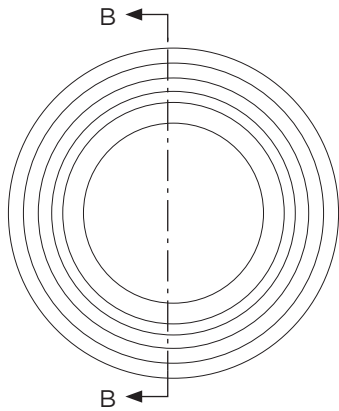


	Dim W	Dim DS	Dim NDS
	<b>4</b>		
PF30 73	73	36.5	
PF30 83	83	41.5	

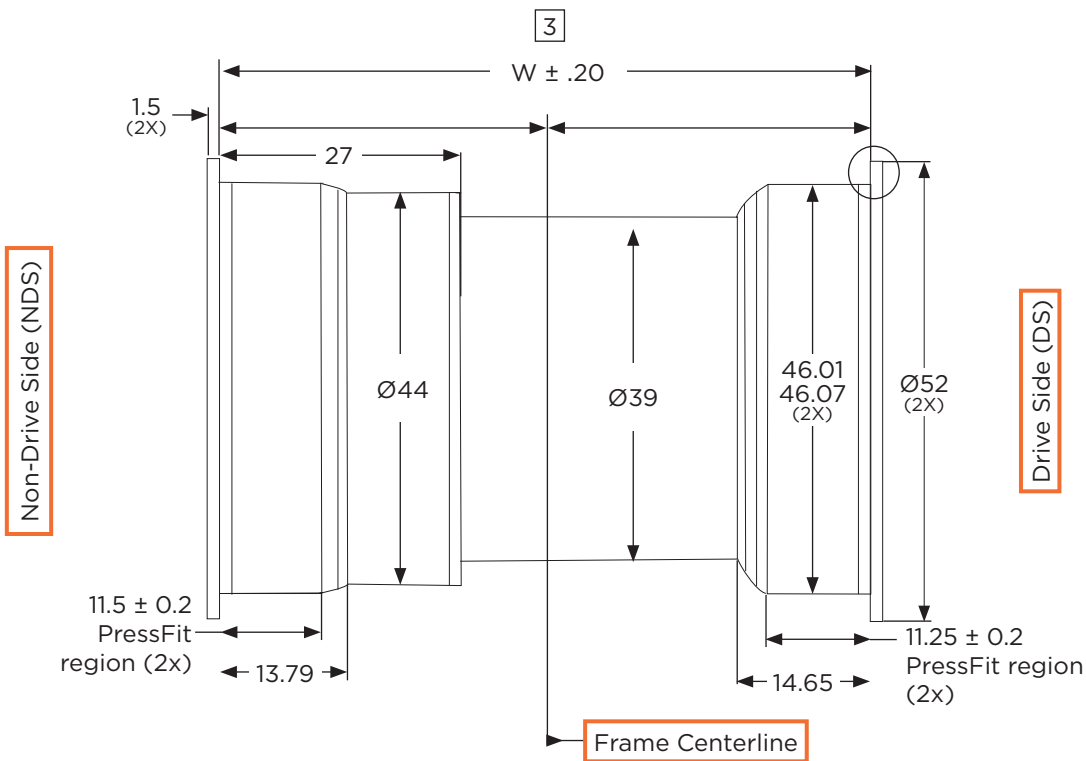
### Notes

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.** Recommended 73 mm or 83 mm for MTB applications.





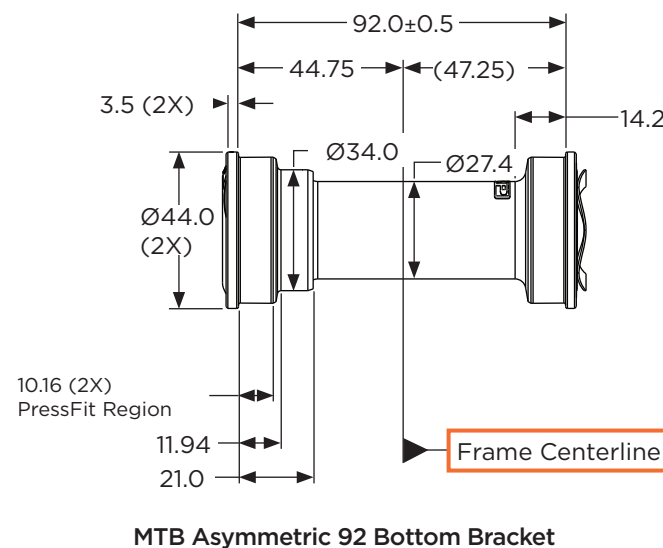
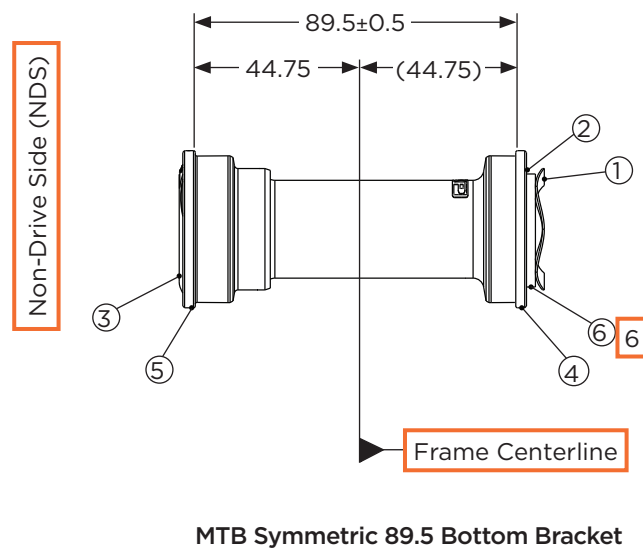
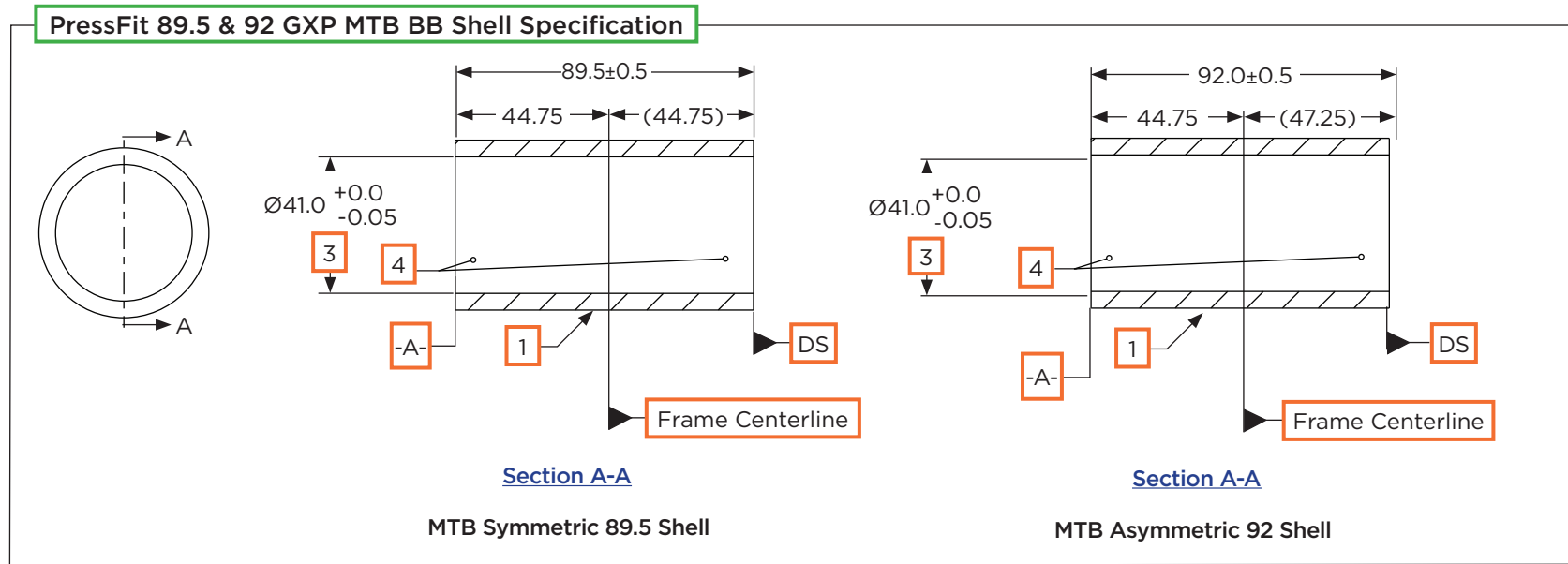
	Dim W	Dim DS	Dim NDS
	3		
PF30 73	73		36.5
PF30 83	83		41.5



Notes

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 crankset designer. Dimensions shown do not take the place of proper frame, bottom bracket shell, or crankset design.
3. Recommended 73 mm or 83 mm for MTB applications.
4. Ensure that the bottom bracket cups are completely pressed into the frame shell. There should be no gap between the flange and

# PressFit™ 89.5 & 92 GXP® MTB Bottom Bracket



## PressFit GXP MTB BB-Key Dimensions

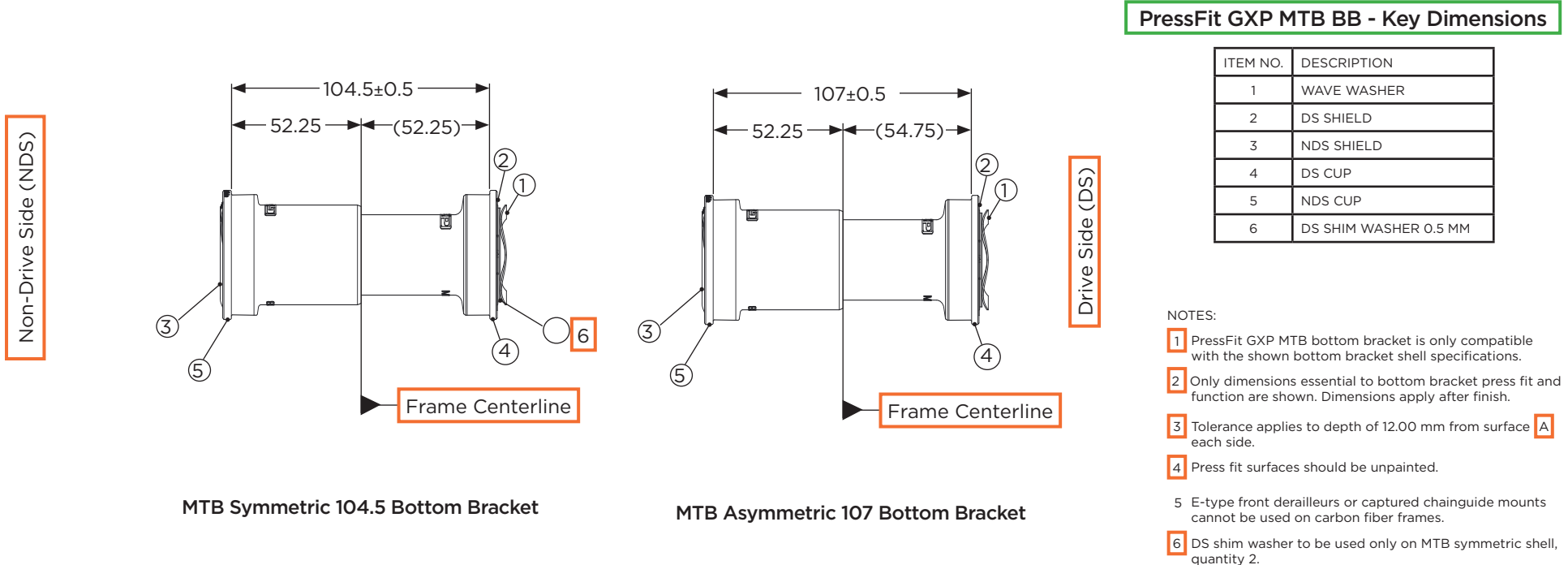
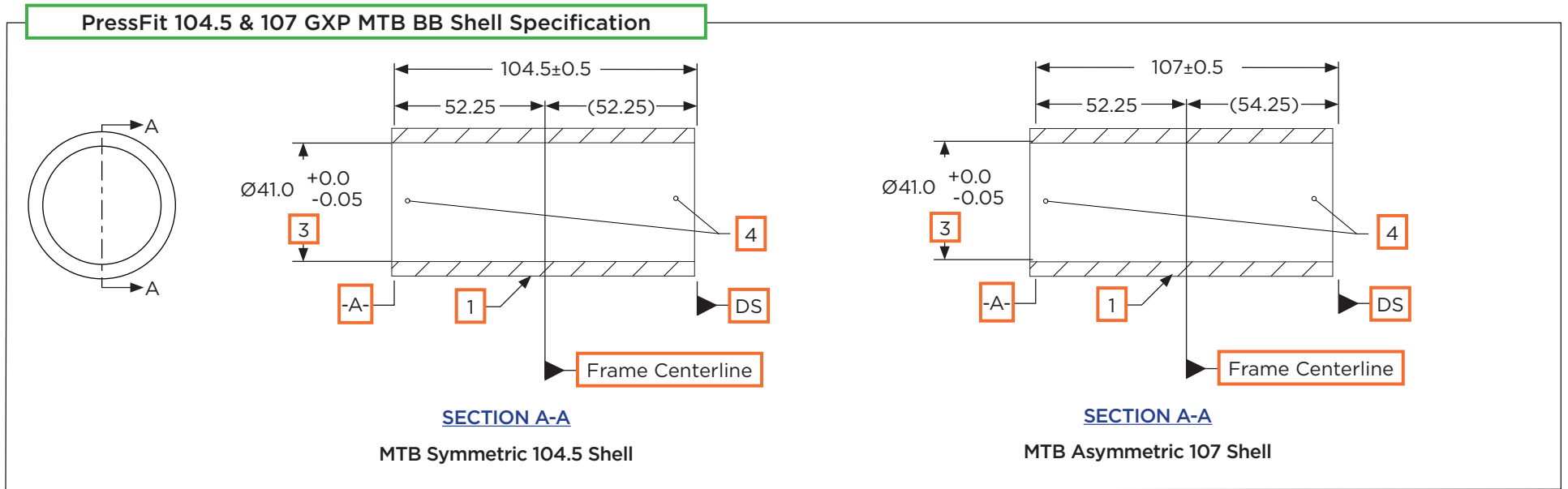
ITEM NO.	DESCRIPTION
1	WAVE WASHER
2	DS SHIELD
3	NDS SHIELD
4	DS CUP
5	NDS CUP
6	DS SHIM WASHER 2.5 MM
7	DS SHIM WASHER 4.5 MM
8	DS SHIM WASHER 0.5 MM

### NOTES:

- 1 PressFit GXP MTB bottom bracket is only compatible with the shown bottom bracket shell specifications.
- 2 Only dimensions essential to bottom bracket press fit and function are shown. Dimensions apply after finish.
- 3 Tolerance applies to depth of 12.00 mm from surface -A- each side.
- 4 Press fit surfaces should be unpainted.
- 5 E-type front derailleurs or captured chainguide mounts cannot be used on carbon fiber frames.
- 6 DS shim washer to be used only on MTB symmetric shell.

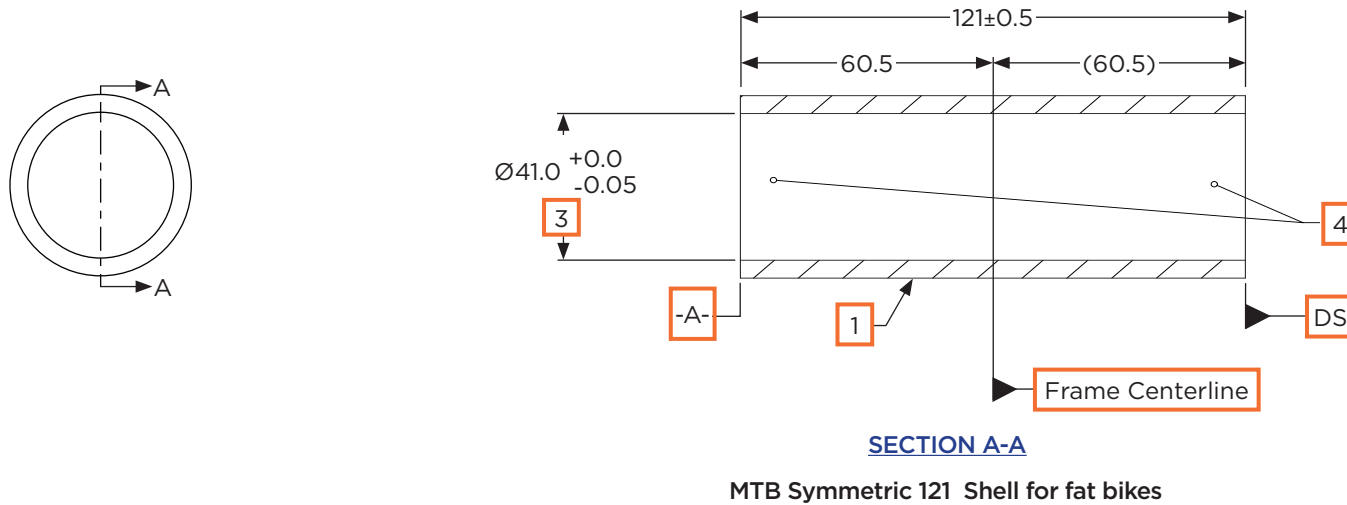


# PressFit™ 104.5 & 107 GXP® MTB Bottom Bracket



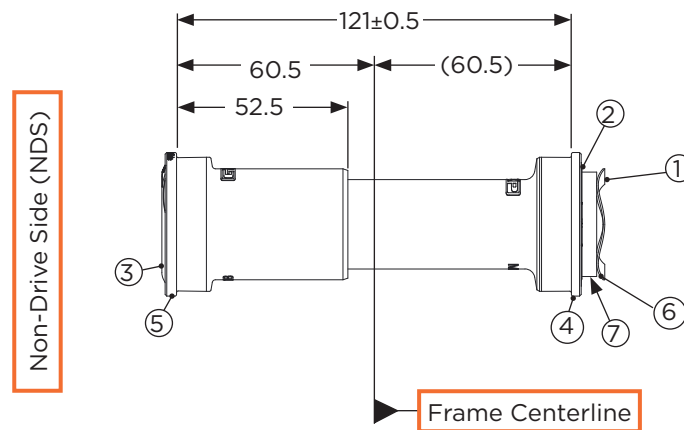
# PressFit™ 121 GXP® MTB Bottom Bracket

## PressFit 121 GXP MTB BB Shell Specification



## PressFit GXP MTB BB - Key Dimensions

ITEM NO.	DESCRIPTION
1	WAVE WASHER
2	DS SHIELD
3	NDS SHIELD
4	DS CUP
5	NDS CUP
6	DS SHIM WASHER 4.5 MM



MTB Symmetric 121 Bottom Bracket for fat bikes

### NOTES:

- 1 PressFit GXP MTB bottom bracket is only compatible with the shown bottom bracket shell specifications.
- 2 Only dimensions essential to bottom bracket press fit and function are shown. Dimensions apply after finish.
- 3 Tolerance applies to depth of 12.00 mm from surface -A- each side.
- 4 Press fit surfaces should be unpainted.
- 5 E-type front derailleurs or captured chainguide mounts cannot be used on carbon fiber frames.
- 6 DS shim washer to be used only on MTB symmetric shell.

