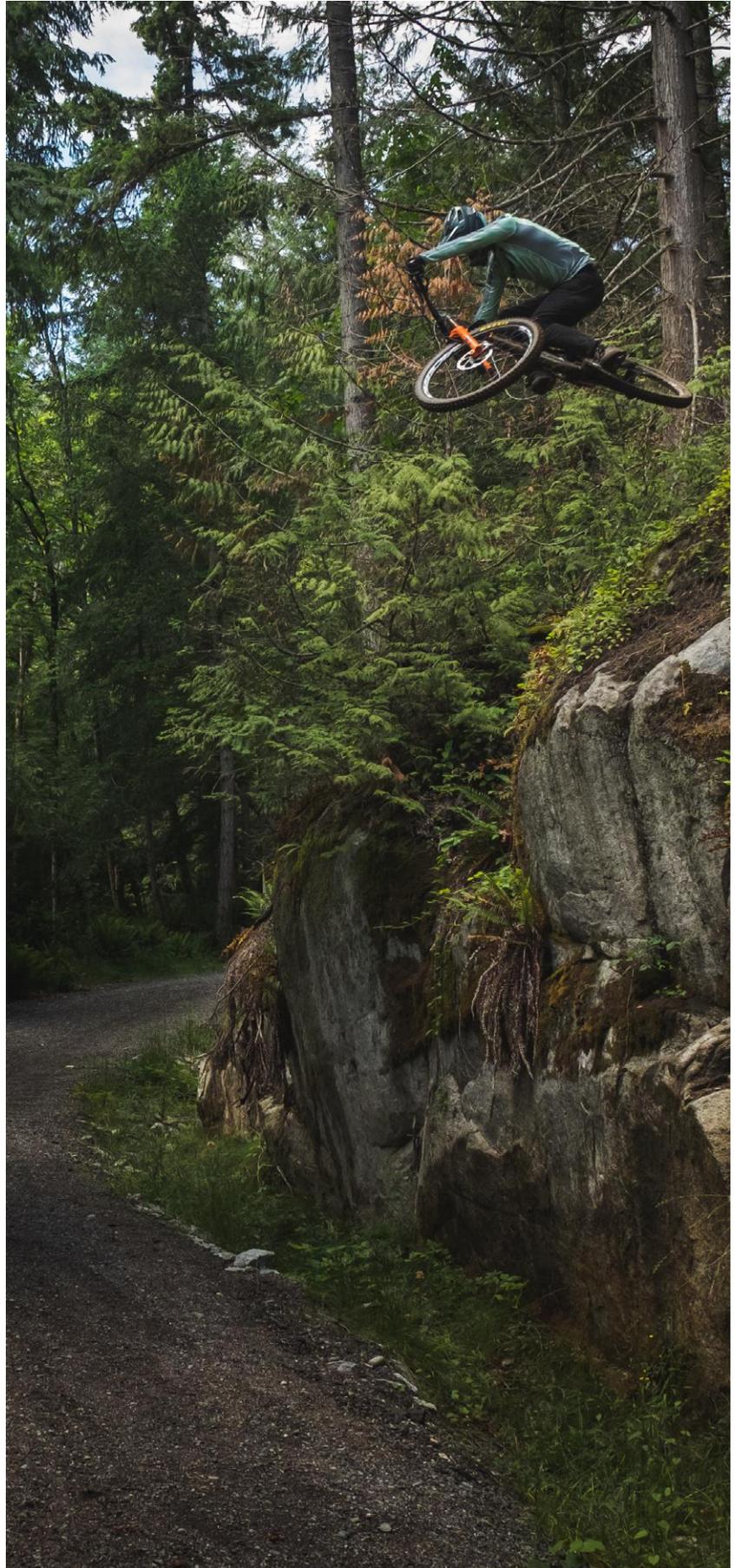


# ALTITUDE ALLOY



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**Rider:** Jesse Melamed  
**Photo:** Margus Riga  
**Location:** North Vancouver, BC

## INTRODUCTION

The Altitude will be our key platform for enduro racing and aggressive trail riding. Ridden by the Rocky Mountain Race Face Enduro Team, this bike is fast. Already race proven with Jesse's win at the EWS in Zermatt, Switzerland, the redesigned Altitude is now more capable than ever.

The goal with the redesign was to create a bike that would be competitive on today's racetracks while still being a ton of fun for those getting out on weekends. We might not all smash racetracks and stand on podiums like Jesse Melamed, but we can all relate to the feeling of committing to ride a little faster or hitting that feature you usually skip over. The Altitude has everything that you need to take your riding to the next level.

This manual contains important safety, maintenance and user information. Read and understand it thoroughly before your first ride on your new Rocky Mountain bicycle. This material applies only to the specific platform you have chosen and should be used in conjunction with your Rocky Mountain Owner's Manual, which is included with your bike. Please read the Owner's Manual before your first ride. If you do not have a copy of the Owner's Manual, you can get it from your nearest authorized Rocky Mountain dealer.

## SHREDIQUETTE

### Riders

Always be courteous to other trail users. Use extra caution around domestic animals, such as dogs and horses. Give other trail users right-of-way in all situations, during both climbing and descending.

### Trail

Only ride your bicycle on trails and paths sanctioned for bicycle use. Follow all local laws and regulations. As for all trail users, care should be taken to avoid impacts on the trail or environment. Do not skid on or modify trails.

**Rider:** ALN  
**Photo:** Margus Riga  
**Location:** North Vancouver, BC



## GETTING TO KNOW YOUR BIKE



### Technical details

- Designed to win enduro races, the Altitude's refined carbon frame means it is tough enough to withstand aggressive descents and light enough to make easy work of the liaisons between stages.
- The RIDE-9™ adjustment system allows riders to quickly fine tune their geometry and suspension with a pair of Allen keys.
- We've increased the reach, made the seat tube angle steeper, lengthened the chainstays, and designed for a 44 mm offset fork. The Altitude was designed for speed, while maintaining its trail manners.
- Improved small bump compliance and reduced pedal kick, while providing increased mid-stroke sensitivity and end-stroke progression.
- New, smaller sealed bearings at the shock eyelet dramatically improve shock sensitivity (aftermarket shock compatible).
- The result is a sensitive yet supportive feeling platform that's dialed in for bottom out resistance with both coil and modern air shocks.
- Bearing shields throughout help prevent contamination from gnarly trail conditions or post-ride wash stations.
- Dual row bearings at the dropouts for a stiffer rear triangle.
- The fully enclosed internal routing on our carbon models and large open ports on alloy allow for easy cable and hose installations.
- Integrated OneUp chain guide, with 2-bolt ISCG05 for mounting a bashguard, keeping your chain on and your ring intact.
- Integrated downtube protector and shuttle guard.
- All frame sizes are water bottle compatible.

## BASIC SETUP

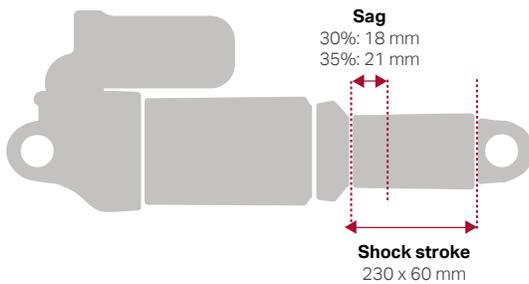
There are several variables that can be manipulated to fine tune the setup of your suspension. These are some basic guidelines to get you in the ballpark, and you should experiment to see what best suits you from there. The first step is to set your sag. Sag refers to how much the suspension moves under just the weight of the rider (including all riding accessories). Air pressure or coil spring rate and preload is adjusted until the desired amount of sag is measured.

Please observe the minimum and maximum amount of preload recommended by the manufacturer for a given coil spring. If you need to change the spring rate, please note you must remove the eyelet bearings to remove the coil spring.

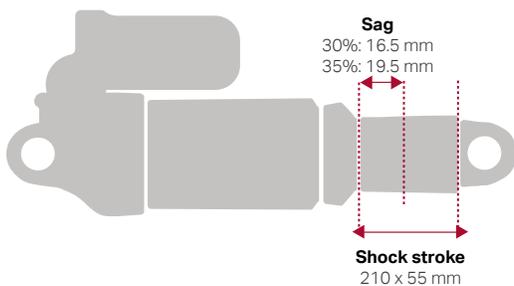
### Shock sag

We recommend approximately 30–35% sag for this platform.

Regular Kinematic (Size MD - LG - XL)

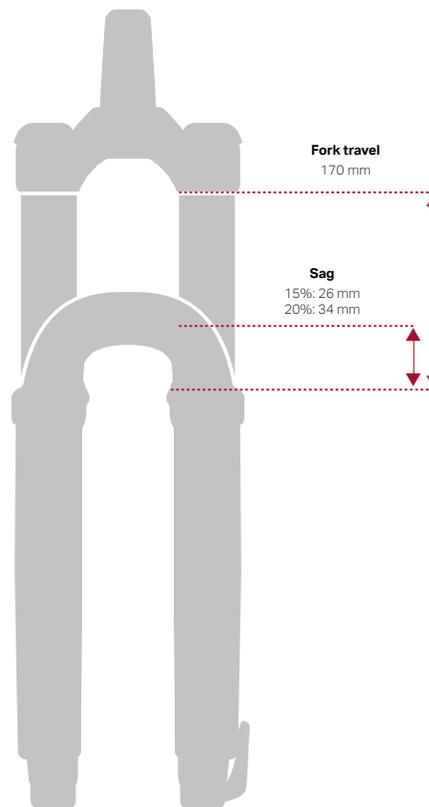


Light Kinematic (Size SM)



### Fork sag

We recommend approximately 15–20% sag for this platform.



## SHOCK EYELET BEARING

### Service

Your frame is equipped with cartridge bearings in the rear eyelet, allowing for better small-bump compliance. These bearings are carried by cups that have a very firm press fit into the shock shaft.



If you have your shock serviced, we highly recommend removing these components, as suspension service centres cannot guarantee they will be returned.

To remove the system, follow these steps:

- Use the Rocky Mountain Bearing Eyelet Tool Kit (Part# 1810031)
- Install the top hat piece on one side of the bearing eyelet
- Next, install one of the cup removal tools over the bearing cup with the top hat piece installed.
- Thread the M8 screw snugly against the top hat piece
- Install the other cup removal tool over the other bearing cup
- Thread the M8 screw all the way in until it starts pushing on the other side. It is contacting the inside of the top hat piece.
- Keep threading until one of the cups is full pushed out.
- Next insert the drift tool through the shock eyelet and rest it firmly against the bearing cup that is still pressed in the shock eyelet.
- Gently, but firmly, hammer the drift tool until the bearing cup is fully removed from the shock eyelet.

**If you do not have the Rocky Mountain Bearing Eyelet Tool Kit, use a blind bearing puller:**

- Use a blind bearing puller (8 mm extension) to remove both bearings.
- Remove the centre sleeve.
- Use the blind bearing puller (10 mm extension) to remove the empty cups.

NOTE: the inner diameter of the cups is 11 mm, which means the 12 mm extension won't fit (So don't force it); Use the 10 mm extension.

To install new cups, use a bearing press or vice with soft jaws installed, making sure to press on the outer edge of the cups, and don't forget the centre spacer sleeve between the cups.

## ALTITUDE SPRING CHART

### Rebound

Rebound adjustment controls how quickly your suspension returns to full extension after it hits a bump. Too much rebound control, and the fork or shock will move too slowly, sinking deeper and deeper into its travel under repeated hits, which will feel harsh. Too little, and the suspension can spring back too quickly, causing a loss of traction and control. Follow the manufacturer's recommendations for base settings, and experiment to find your happy place.

### Compression

Low speed compression (LSC) controls rider weight shifts, pumping through terrain, G-outs, and other slow inputs. Too much LSC will result in a harsher ride feel; too little LSC will result in a ride feel that's too soft and unresponsive.

### 2021 ALTITUDE 230x60 FOX DHX2 COIL SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	STEEL SPRING WEIGHT	FOX SLS SPRING WEIGHT	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED HSR SETTING	RECOMMENDED LSC SETTING	RECOMMENDED HSC SETTING
100 / 45	300	300	19-21 mm	10-11	6-7	14-15	6-7
110 / 50	300	325	19-21 mm	9--11	6-7	14-15	6-7
120 / 55	350	350	19-21 mm	8-9	6-7	14-15	6-7
130 / 59	350	375	19-21 mm	8-10	6-7	13-14	6-7
140 / 64	400	400	19-21 mm	6-7	5-6	12-13	5-6
150 / 68	400	425	19-21 mm	6-7	5-7	11-13	5-6
160 / 73	450	450	19-21 mm	5-6	4-5	9-10	5-6
170 / 77	450	475	19-21 mm	5-6	4-5	9-11	4-6
180 / 82	500	500	19-21 mm	4-5	4-5	9-10	4-5
190 / 86	500	525	19-21 mm	4-5	3-5	7-9	3-4
200 / 91	550	550	19-21 mm	3-4	3-4	6-7	3-4
210 / 95	600	Not Available	19-21 mm	2-3	2-3	5-6	2-3
220 / 100	600		19-21 mm	2-3	2-3	5-6	2-3
230 / 105	650		19-21 mm	1-2	1-2	4-5	1-2
240 / 109	700		19-21 mm	1-2	0-1	3-4	0-1
250 / 114	Not Available		19-21 mm	Not Available	Not Available	Not Available	Not Available

### 2021 ALTITUDE 210x55 FOX DHX2 COIL SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	STEEL SPRING WEIGHT	FOX SLS SPRING WEIGHT	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED HSR SETTING	RECOMMENDED LSC SETTING	RECOMMENDED HSC SETTING
100 / 45	300	325	17-19 mm	9-11	6-7	14-15	6-7
110 / 50	350	350	17-19 mm	8-9	6-7	14-15	6-7
120 / 55	350	375	17-19 mm	8-10	6-7	13-14	6-7
130 / 59	400	400	17-19 mm	6-7	5-6	12-13	5-6
140 / 64	400	400	17-19 mm	6-7	5-6	12-13	5-6
150 / 68	400	425	17-19 mm	6-7	5-7	11-13	5-6
160 / 73	450	450	17-19 mm	5-6	4-5	9-10	5-6
170 / 77	450	475	17-19 mm	5-6	4-5	9-11	4-6

## ALTITUDE SPRING CHART

### 2021 ALTITUDE 230x60 FOX FLOAT X2 AIR SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	FOX FLOAT X2 PSI	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED HSR SETTING	RECOMMENDED LSC SETTING	RECOMMENDED HSC SETTING
100 / 45	130	19-21 mm	12-14	5-6	14-16	6-7
110 / 50	140	19-21 mm	11-13	5-6	14-16	6-7
120 / 55	150	19-21 mm	10-12	5-6	13-15	6-7
130 / 59	160	19-21 mm	9-11	4-5	13-15	6-7
140 / 64	170	19-21 mm	8-10	4-5	12-14	5-6
150 / 68	180	19-21 mm	7-9	4-5	11-13	5-6
160 / 73	190	19-21 mm	7-9	3-4	10-12	5-6
170 / 77	200	19-21 mm	6-8	3-4	9-11	4-5
180 / 82	210	19-21 mm	6-8	3-4	8-10	4-5
190 / 86	220	19-21 mm	5-7	2-3	7-9	4-5
200 / 91	230	19-21 mm	4-6	2-3	6-8	4-5
210 / 95	240	19-21 mm	3-5	2-3	5-7	3-4
220 / 100	250	19-21 mm	2-4	2-3	4-6	3-4
230 / 105	260	19-21 mm	2-4	1-2	2-4	3-4
240 / 109	270	19-21 mm	1-3	1-2	2-4	3-4
250 / 114	280	19-21 mm	1-3	1-2	2-4	2-3

### 2021 ALTITUDE 210x55 FOX FLOAT X2 AIR SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	FOX FLOAT X2 PSI	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED HSR SETTING	RECOMMENDED LSC SETTING	RECOMMENDED HSC SETTING
100 / 45	140	17-19 mm	11-13	5-6	14-16	6-7
110 / 50	150	17-19 mm	10-12	5-6	13-15	6-7
120 / 55	160	17-19 mm	9-11	4-5	13-15	6-7
130 / 59	170	17-19 mm	8-10	4-5	12-14	5-6
140 / 64	180	17-19 mm	7-9	4-5	11-13	5-6
150 / 68	190	17-19 mm	7-9	3-4	10-12	5-6
160 / 73	200	17-19 mm	6-8	3-4	9-11	4-5
170 / 77	210	17-19 mm	6-8	3-4	8-10	4-5

## ALTITUDE SPRING CHART

### 2021 ALTITUDE 230x60 FOX DPX2 AIR SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	FOX DPX2 PSI	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED LSC SETTING *IF AVAILABLE
100 / 45	150	19-21 mm	12	Start open / Adjust to suit
110 / 50	160	19-21 mm	11-12	Start open / Adjust to suit
120 / 55	170	19-21 mm	11	Start open / Adjust to suit
130 / 59	180	19-21 mm	10-11	Start open / Adjust to suit
140 / 64	190	19-21 mm	10	Start open / Adjust to suit
150 / 68	200	19-21 mm	8-10	Start open / Adjust to suit
160 / 73	210	19-21 mm	8	Start open / Adjust to suit
170 / 77	220	19-21 mm	7-8	Start open / Adjust to suit
180 / 82	230	19-21 mm	7	Start open / Adjust to suit
190 / 86	240	19-21 mm	7	Start open / Adjust to suit
200 / 91	250	19-21 mm	7	Start open / Adjust to suit
210 / 95	260	19-21 mm	5-6	Start open / Adjust to suit
220 / 100	270	19-21 mm	5	Start open / Adjust to suit
230 / 105	280	19-21 mm	2-3	Start open / Adjust to suit
240 / 109	290	19-21 mm	2	Start open / Adjust to suit
250 / 114	300	19-21 mm	2	Start open / Adjust to suit

### 2021 ALTITUDE 210x55 FOX DPX2 AIR SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	FOX DPX2 PSI	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED LSC SETTING *IF AVAILABLE
100 / 45	160	17-19 mm	11-12	Start open / Adjust to suit
110 / 50	170	17-19 mm	11	Start open / Adjust to suit
120 / 55	180	17-19 mm	10-11	Start open / Adjust to suit
130 / 59	190	17-19 mm	10	Start open / Adjust to suit
140 / 64	200	17-19 mm	8-10	Start open / Adjust to suit
150 / 68	210	17-19 mm	8	Start open / Adjust to suit
160 / 73	220	17-19 mm	7-8	Start open / Adjust to suit
170 / 77	230	17-19 mm	7	Start open / Adjust to suit

## ALTITUDE SPRING CHART

### 2021 ALTITUDE 230x60 ROCK SHOX DELUXE AIR SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	ROCK SHOX SDLX PSI	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED LSC SETTING *IF AVAILABLE
100 / 45	120	19-21 mm	7	Start open / Adjust to suit
110 / 50	130	19-21 mm	7	Start open / Adjust to suit
120 / 55	140	19-21 mm	6-7	Start open / Adjust to suit
130 / 59	150	19-21 mm	6-7	Start open / Adjust to suit
140 / 64	160	19-21 mm	6	Start open / Adjust to suit
150 / 68	170	19-21 mm	5-6	Start open / Adjust to suit
160 / 73	180	19-21 mm	5-6	Start open / Adjust to suit
170 / 77	190	19-21 mm	5	Start open / Adjust to suit
180 / 82	200	19-21 mm	4-5	Start open / Adjust to suit
190 / 86	210	19-21 mm	4-5	Start open / Adjust to suit
200 / 91	220	19-21 mm	4	Start open / Adjust to suit
210 / 95	230	19-21 mm	4-3	Start open / Adjust to suit
220 / 100	240	19-21 mm	4-3	Start open / Adjust to suit
230 / 105	250	19-21 mm	3	Start open / Adjust to suit
240 / 109	260	19-21 mm	3-2	Start open / Adjust to suit
250 / 114	270	19-21 mm	3-2	Start open / Adjust to suit

### 2021 ALTITUDE 210x55 ROCK SHOX DELUXE AIR SHOCK \*Count clicks from Closed: 0 Clicks = Closed\*

RIDER WEIGHT LBS / KG	ROCK SHOX SDLX PSI	SHOCK SAG	RECOMMENDED LSR SETTING	RECOMMENDED LSC SETTING *IF AVAILABLE
100 / 45	130	17-19 mm	7	Start open / Adjust to suit
110 / 50	140	17-19 mm	6-7	Start open / Adjust to suit
120 / 55	150	17-19 mm	6-7	Start open / Adjust to suit
130 / 59	160	17-19 mm	6	Start open / Adjust to suit
140 / 64	170	17-19 mm	5-6	Start open / Adjust to suit
150 / 68	180	17-19 mm	5-6	Start open / Adjust to suit
160 / 73	190	17-19 mm	5	Start open / Adjust to suit
170 / 77	200	17-19 mm	4-5	Start open / Adjust to suit

## RIDE-9

The RIDE-9™ adjustment system allows riders to quickly fine tune their geometry with a pair of Allen keys. Nine configurations are possible thanks to a pair of rotating chips. Geometry setup is a complex artform with huge variables in rider style, preference, terrain, and ability. We do recommend the use of professional services, but we also believe that learning to dial in your own bike is the best way to fully understand its performance. When adjusting your RIDE-9 position, make gradual, incremental changes, take notes, and be methodical. Don't adjust in a hurry before a big ride. Take your time and enjoy the process.

Go [HERE](#) to download the full guide

### READY FOR ANY TRAIL

The RIDE-9™ adjustment system allows you to quickly fine-tune your geometry and suspension with a pair of Allen keys.

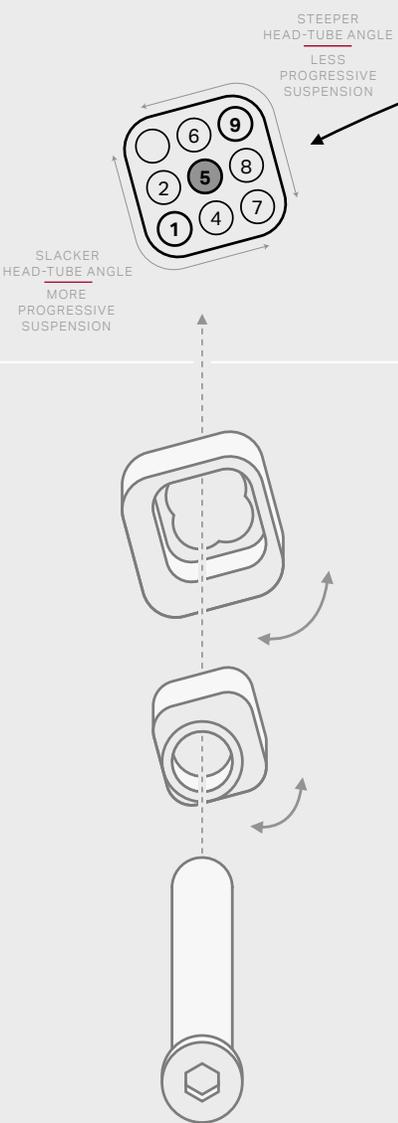
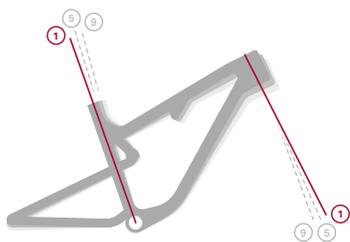


Diagram labels:

- Top: STEEPER HEAD-TUBE ANGLE, LESS PROGRESSIVE SUSPENSION
- Bottom: SLACKER HEAD-TUBE ANGLE, MORE PROGRESSIVE SUSPENSION

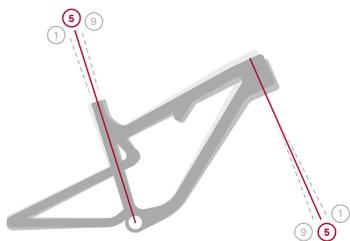




**Position 1**

 SLACK

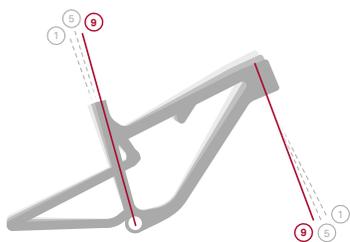
Stability at high speeds. Recommended for more aggressive trail riding.



**Position 5**

 NEUTRAL

Balanced handling and stability.



**Position 9**

 STEEP

Quicker handling. Recommended for better climbing traction.

## RM TWO-POSITION AXLE USER MANUAL

The 2021 Altitude frame, in both alloy and carbon, is equipped with a 2-position axle dropout. This allows the user to choose a short or long rear-center length that suits their personal preferences. To match the position of the rear axle to the brake caliper, the frame is also equipped with a unique Rocky Mountain brake adapter. It is designed to fit both axle positions and ensure that the brake caliper is properly positioned in relation to the rotor with maximum clamping surface area. This adapter comes with laser etched instruction regarding its required mounting orientation in relation to the chosen axle position.

Short ----> FWD means the arrow should be pointing forward when the axle is in the short position.

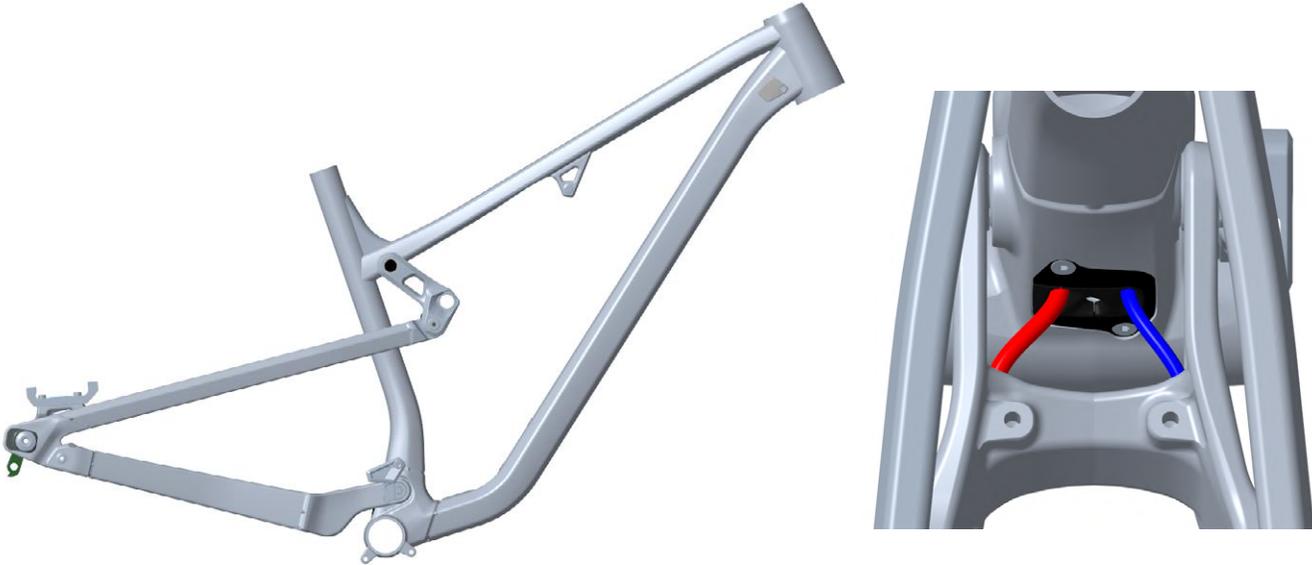


Long ----> FWD means the arrow should be pointing forward when the axle is in the long position.



## CABLE ROUTING HOW TO

Removing the rear wheel and rear shock will allow you to cycle the rear triangle and give better access to direct the housing in the area between the chain stay and main pivot. Cycling the rear triangle as you push the housing forward also reduces friction as the housing moves through the bottom bracket port.



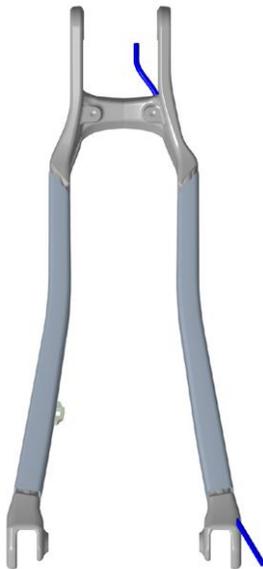
## REPLACING/INSTALLING REAR DERAILLEUR CABLE HOUSING

1. Remove non-drive side head tube port cover.



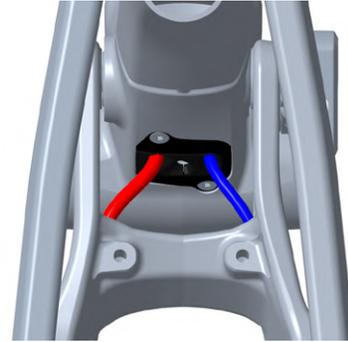
2. If replacing the old housing, cut a new piece to the same length. If you don't have the old piece, approximate the length required and cut a slightly longer portion.

3. Beginning from the rear of the bike, begin feeding the housing into the cable opening on the drive side chain stay. Push the cable forward and simultaneously twist the housing.

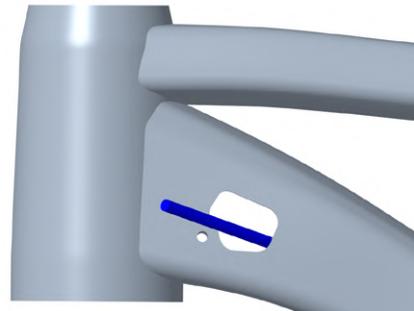


4. Guide the housing into the housing port above the bottom bracket. Make sure you insert the derailleur housing into the port labeled "Shift."

- a. Re-use pic from #1.



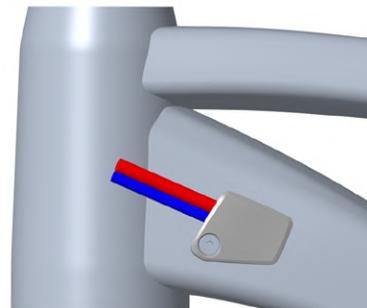
5. Push the cable from the rear until it appears at the head tube port. Fish it out with a pick or a bent spoke.



6. Install the foam sleeve over the housing. You will need to push the foam down the housing until the foam is fully inserted inside the frame.

- a. Pic required of the foam sleeve on the derailleur housing

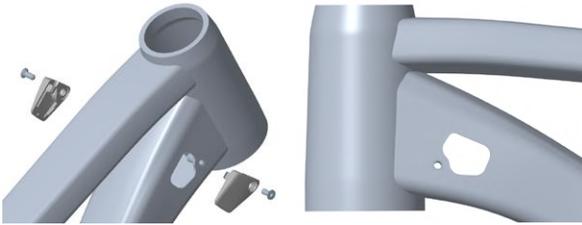
7. Once the housing is installed, re-install the headtube port.



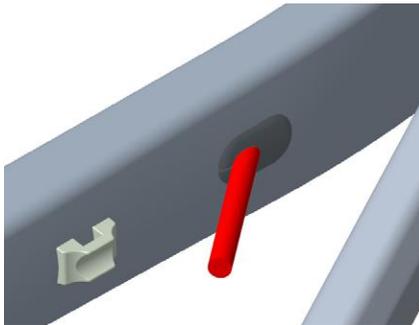
## REPLACING/INSTALLING REAR HYDRAULIC BRAKE HOSE

*Note: The instructions listed below are for a hydraulic brake with the hose attached to the caliper but not lever. Lever will have to be reconnected and bled according to manufacturing specifications once hose has been installed.*

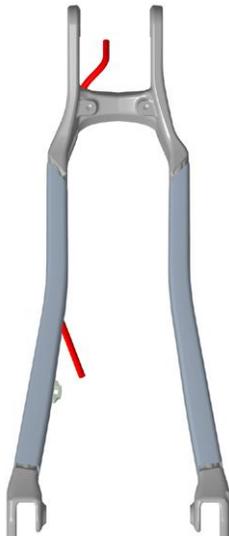
1. Remove non-drive side head tube port cover for standard rear brake lever position (Right-hand side) or drive side head tube port cover for moto / reverse rear brake lever position (left-hand side).



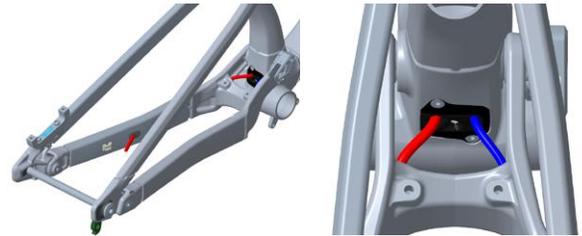
2. Place the rubber grommet onto the hydraulic hose and slide it back towards the brake caliper. Ensure the grommet is in the correct orientation.



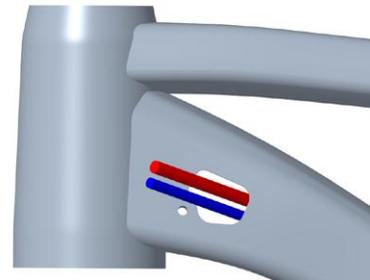
3. Push the hose forward and simultaneously twist the hose until it comes out at the forward end of the chain stay



4. Guide the brake hose into the housing port above the bottom bracket. Make sure you insert the derailleur housing into the port labeled "Brake". Any brake port will do.
  - a. Pic required of the port with the hose inserted into the standard port

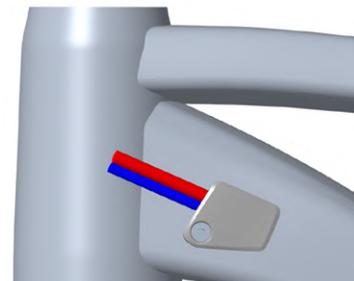


5. Push the brake hose from the rear until it comes out at the head tube port. Fish it out with a pick or a bent spoke.
  - a. Pic required of the housing exiting the open alloy head tube port



6. Before you re-attach the hose to the brake lever, install the foam sleeve over the hose. You will need to push the foam housing down the hose until it is fully inserted inside the frame.
  - a. Pic required of the foam housing installed on the brake hose.

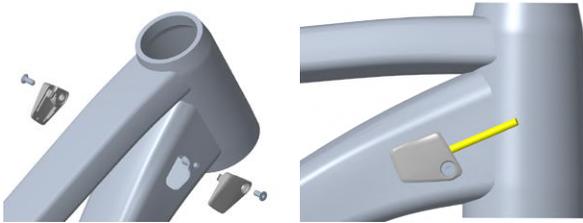
7. Once the hose is re-attached to the brake lever, re-install the headtube port.
  - a. Pic required of the headtube port installed with the housing coming through



## REPLACING/INSTALLING DROPPER POST HOUSING

The alloy frame has a natural guiding surface built above the bottom bracket which helps the housing transition from the seat tube to the down tube and up towards the head tube port.

1. Remove drive side head tube port cover.
  - a. Pic required of the port cover on the frame



2. If replacing the old housing, cut a new piece to the same length. If you don't have the old piece, approximate the length required and cut a slightly longer portion

3. Gently bend a 2-inch portion of the end of the seat post housing. This will allow the housing to glide up the downtube without catching on edges inside the frame

4. Beginning from the seat tube, begin feeding the housing down. Push the housing down, gently twisting back and forth until it makes it way up the down tube. Fish it out with a pick or a bent spoke.
  - a. Pic required of the housing entering seat tube and exiting the headtube port.



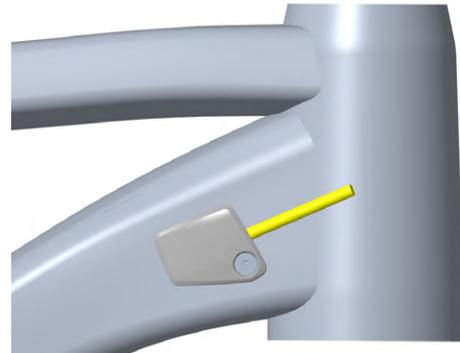
5. Before you re-attach the seatpost housing to the dropper post lever, install the foam sleeve over the housing. You will need to push the foam housing down the hose until it is fully inserted inside the frame.

- a. Pic required of the housing entering seat tube and exiting the headtube port.

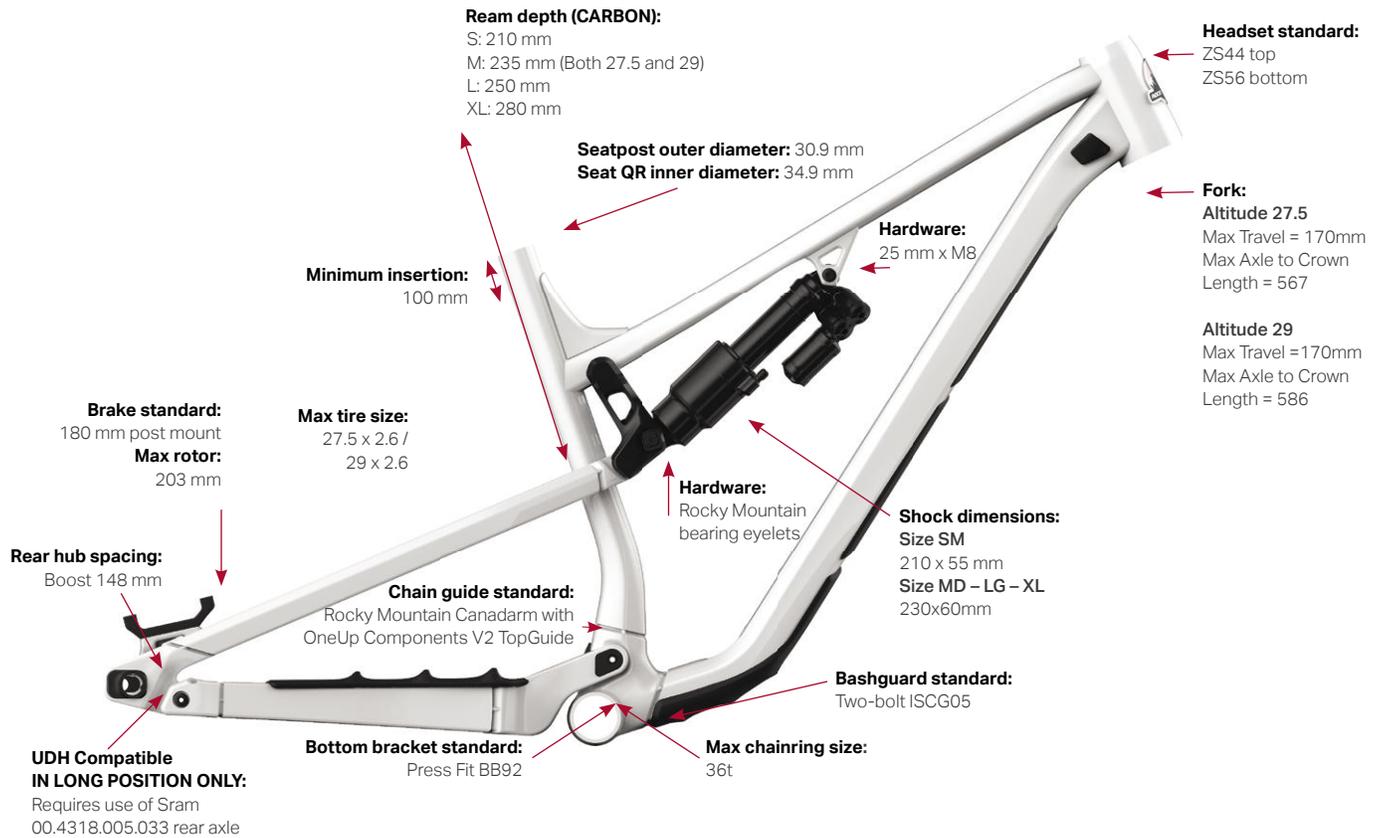
6. Complete the dropper post installation as per the dropper post manufacturer's instructions.

7. Once the seat post is correctly installed, re-install the headtube port.

- a. Pic required of the headtube port installed with the housing coming through



## CRITICAL DIMENSIONS



### Shock fitment

We check clearances for many shocks but cannot guarantee compatibility with all makes and models. Please contact your local dealer if you have a specific question regarding shock fitment.

**Please note that you cannot run a 230mm eye-to-eye shock with a stroke longer than 60mm. The 62.5mm and 65mm stroke versions will result in the link colliding with the frame due to the increased stroke**

### Approved Shocks (For 210x55 (Size SM) and 230x60 (Size MD-LG-XL))

Fox	Marzocchi	RockShox	Cane Creek
• FLOAT DPS	• Bomber RC	• Deluxe	• DB Coil
• FLOAT DPX2		• Super Deluxe Air	• DBIL Coil
• FLOAT X2		• Super Deluxe Coil	• DB Air
• DHX2			• DBIL Air

## PRO TIPS & TRICKS

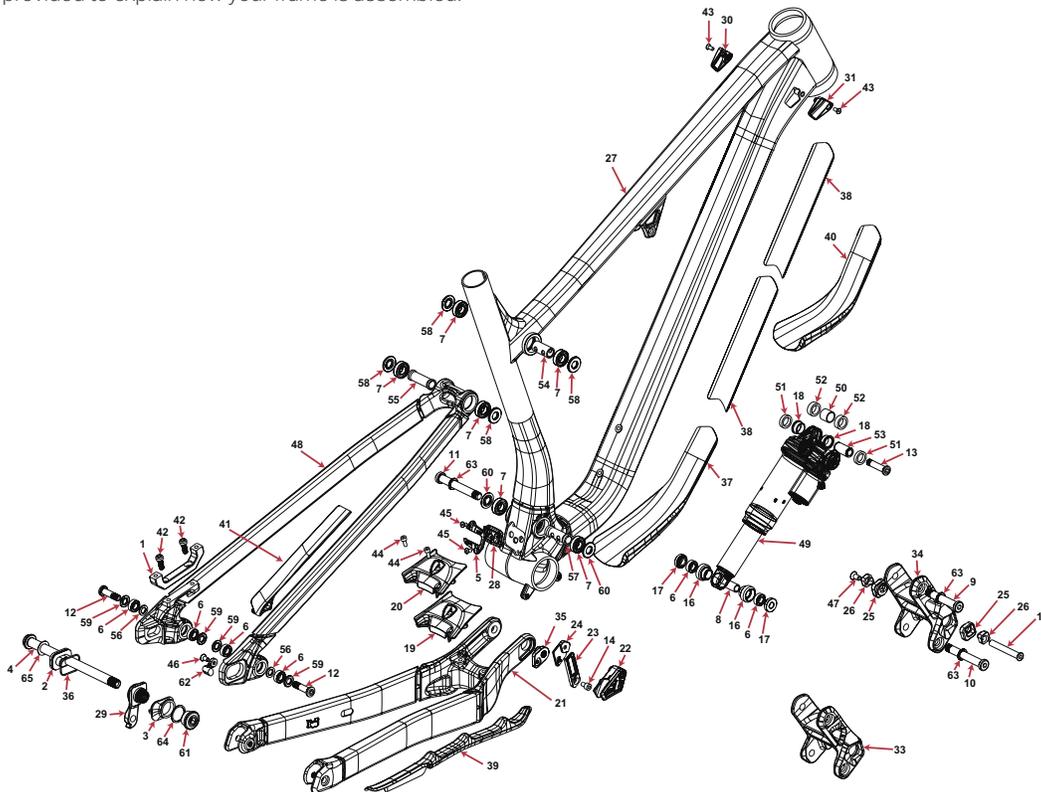
- When tuning your suspension, write down your settings so you can refer back to them. Better yet, use an online spreadsheet on your phone!
- Use a 4 mm plastic housing ferrule to plug any unused cable ports at the head tube.
- When removing your rear wheel, you can rest the chain on the driveside seatstay protector to prevent it from dangling awkwardly.
- When replacing shift or post housing, you can use a RockShox reverb tool to simply pull a new piece of housing right into place, without disturbing the inner foam tubes.

- When assembling pivot bolts, use grease to “stick” any spacers into place while you assemble.
- Insert pivots through bearings/spacers so they sit flush with the inside of the inner race, holding washers in place while you assemble.
- Zip-tie a spare derailleur hanger to your saddle rails so you always have one with you when you’re deep in the woods.



## EXPLODED VIEW

Please refer to the table for torque values and assembly details. These views are provided to explain how your frame is assembled.



## FULL LIST OF PARTS

Please refer to the small-parts kits available for purchase.

There are several kits that can help you maintain your bike for maximum trail performance: <https://shop.bikes.com/collections/parts>.

These are available from your local dealer and on [www.bikes.com](http://www.bikes.com).

#	QTY	ITEM	PARTS NO.	DESCRIPTION	TORQUE (NM)	INSTALLATION NOTES
1	1	ADAPTER	1801022	BRAKE ADAPTER		
2	1	AXLE CHIP	3221001	AXLE FLIP CHIP, LEFT		
3	1	AXLE CHIP	3221002	AXLE FLIP CHIP, RIGHT		
4	1	AXLE, REAR	3227009	REAR AXLE 12X 173MM, HARD BLACK ANO	10	APPLY GREASE TO AXLE SHAFT AND THREADS. USE STAINLESS STEEL WASHER (3227006) ON NON-DRIVE-SIDE.
5	1	BB PORT COVER	3227010	SLAYER BB PLASTIC PORT COVER		
6	6	BEARING	3227011	ENDURO 688 LLU MAX 16X8X5		
7	6	BEARING	3227012	ENDURO BEARING 6900 2RS MAX TYPE, 22X10X6 SIZE		
8	1	BEARING SLEEVE	3227013	BEARING EYELET CENTRE SLEEVE		
9	1	BOLT	3227014	LINK BOLT, UPPER, M10X1.0, L:58.5, 6MM HEX	8	APPLY GREASE TO PIVOT BOLTS, AND LOCTITE 243 (BLUE) TO SCREW THREADS.
10	1	BOLT	3227015	LINK BOLT, LOWER, M10X1.0, L:70.5, 6MM HEX	8	APPLY GREASE TO PIVOT BOLTS, AND LOCTITE 243 (BLUE) TO SCREW THREADS.
11	1	BOLT	3227016	MP BOLT, M10X1.25, L:75, 6MM HEX	15	APPLY GREASE TO INNER BEARING RACES AND LOCTITE 243 TO FEMALE CHAIN STAY THREADS.
12	2	BOLT	3227017	DROPOUT BOLT, M8X1.0, L:30, 6MM HEX	8	APPLY LOCTITE 243 TO FEMALE SEAT STAY THREADS.
13	1	BOLT	3227018	SHOCK BOLT, M8X1.0, L:34.5, 5MM HEX	8	TORQUE ONLY WITH CORRECT SHOCK AND HARDWARE INSTALLED. APPLY GREASE TO SHOCK BOLTS, AND LOCTITE 243 (BLUE) TO SCREW THREADS.
14	1	BOLT	3227019	SOCKET HEAD CAP SCREW; M5X8, BLUE LOCTITE	< 1	APPLY LOCTITE 243 (BLUE) TO MALE THREADS.
15	1	BOLT	3227020	CSUNK BOLT, 8MM X 57MM X M6 INT.	8	TORQUE ONLY WITH CORRECT SHOCK AND HARDWARE INSTALLED. APPLY GREASE TO SHOCK BOLTS, AND LOCTITE 243 (BLUE) TO SCREW THREADS.
16	2	BRG CUP	3227021	BEARING EYELET FOR 16X8X5 BRG		
17	2	BRG SPACER	3227022	EYELET BEARING SPACER, T:6.3, FOR 40 MM LINK WIDTH		
18	2	BUSHING, FOX	N/A	FOX_IGUS_BUSHING		
19	1	CANADIAN SHIELD 29	1091005	29" CHAINSTAY YOKE COVER		
20	1	CANADIAN SHIELD 275	1991006	27.5" CHAINSTAY YOKE COVER		
21	1	CHAIN STAY	1050130ALU/ 1050130ALU	ALTITUDE CS, 27"/29"		
22	1	CHAINGUIDE	3391004	ONEUP CHAINGUIDE ASSEMBLY		

**FULL LIST OF PARTS**

#	QTY	ITEM	PARTS NO.	DESCRIPTION	TORQUE (NM)	INSTALLATION NOTES
23	1	CHAINGUIDE BASE	3391001	BASE PART OF CHAINGUIDE		
24	1	CHAINGUIDE SLIDE	3391002	SLIDING PART OF CHAINGUIDE		
25	2	FLIP CHIP	1807003	FLIP CHIP, OUTSIDE, AL7075, BLACK ANODIZE.		
26	2	FLIP CHIP	1807004	FLIP CHIP, INSIDE, AL7075, BLACK ANODIZE.		
27	1	FRONT TRIANGLE	1060130ALU-1061136ALU	FRONT TRIANGLE, ALTITUDE		
28	1	GROMMET	1800002	SLAYER BB PORT GROMMET, 85A		
29	1	HANGER	1091004	REAR DER. HANGER, EXT THREAD, STD MOUNT		
30	1	HT PORT COVER, LEFT	1800004	HT PLASTIC PORT COVER, M4, LEFT		
31	1	HT PORT COVER, RIGHT	1800003	HT PLASTIC PORT COVER, M4, RIGHT		
33	1	LINK	1091006	2021 ALTITUDE LINK 27.5" M, S		
34	1	LINK	1091001	2021 ALTITUDE LINK 29" (M, L, XL)		
35	1	MP CHIP	1801001	MAIN PIVOTCHIP		
36	1	O-RING	1805081	O-RING, ID 24.5MM, W:1.50. NITRILE.		
37	1	PROTECTOR	370001	DOWNTUBE PROTECTOR		
38	2	PROTECTOR	370002	TAILGATE PROTECTOR		
39	1	PROTECTOR	3701003	CHAINSTAY PROTECTOR		
40	1	PROTECTOR	3701005	DOWNTUBE PROTECTOR XS, S, M (27.5")		
41	1	PRTOECTOR	3701001	SEATSTAY PROTECTOR		
42	2	SCREW	1801023	M6-1.0, 22MM LONG, SOCKET HEAD	8	APPLY LOCTITE 243 (BLUE) TO SCREW THREADS.
43	2	SCREW, M4X10	1800024-BK	CSUNK SOCKET SCREW, M4x10mm, stainless black	< 1	APPLY GREASE TO BOLT THREADS AND TIGHTEN UNTIL SNUG.
44	2	SCREW, M4X10, Black	1801013	SOCKET HEAD CAP SCREW; M4X10	< 1	APPLY LOCTITE 243 (BLUE) TO MALE THREADS.
45	2	SCREW, M4X8	1807068-BK	CSUNK SOCKET SCREW, M4x8mm, stainless black	< 1	APPLY GREASE TO BOLT THREADS AND TIGHTEN UNTIL SNUG.
46	1	SCREW, M5X10	1808152OVT	CSUNK SOCKET SCREW, M5-0.8x10MM. BLACK STAINLESS STEEL		
47	1	SCREW, M6x12	180566-012-BK	FLAT HEAD C'SUNK SOCKET SCREW, M6-1.0 X 12mm, Stainless black	8	TORQUE ONLY WITH CORRECT SHOCK AND HARDWARE INSTALLED. APPLY GREASE TO SHOCK BOLTS, AND LOCTITE 243 (BLUE) TO SCREW THREADS.
48	1	SEAT STAY	1050136ALU	ALTITUDE SEAT STAY, 29"		
49	1	SHOCK	N/A	SHOCK		

**FULL LIST OF PARTS**

#	QTY	ITEM	PARTS NO.	DESCRIPTION	TORQUE (NM)	INSTALLATION NOTES
50	1	SHOCK BUSHING	N/A	SHOCK BUSHING, ID:12.7mm, OD:15mm, L:12.7mm, STEEL		
51	2	SHOCK REDUCER	N/A	FOX STD REDUCER FOR 25MM PIN		
52	2	SHOCK REDUCER	N/A	SRAM STD REDUCER FOR 25MM PIN		
53	1	SHOCK, PIN	N/A	SHOCK PIN: ID:8 x 25 mm LONG; ALUMINUM		
54	1	SLEEVE	1800008	TT BEARING SLEEVE, ID:10, OD:14, L:29		
55	1	SLEEVE	1800010	SS BEARING SLEEVE, ID:10, OD:14, L:41, NECKED		
56	2	SLEEVE	1800040	DROPOUT BEARING SLEEVE, OD:14, ID:8, T:1.8, 6061 ALU		
57	1	SLEEVE	1801006	MAIN PIVOT BEARING SLEEVE, OD:15, ID:10, T:39, 6061 ALU		
58	4	SPACER	1800009	LINK BEARING SPACER, OD:22, ID:10, T:2.5		
59	4	SPACER	1800039	DO BEARING SPACER, OD:16, ID:8, T:1.5, 6061 ALU		
60	2	SPACER	1800047	MP BEARING SPACER, OD:22, ID:10, T:2.65		
61	1	HANGER NUT	1801008	HANGER/AXLE NUT FOR UDH COMPATIBLE HANGER	20	APPLY LOCTITE 243 (BLUE) TO THREADS.
62	1	UDH STOP	1801003	UDH STOPPER		
63	3	WASHER	1800019	WASHER ID: 10.2, OD: 15.5, T: 1		
64	1	WASHER	1801009	WASHER, 20X24X0.5MM, 304 SS		
65	1	WASHER	3227006	WASHER, 12x19x0.5MM, 304 SS		

## SMALL PARTS KITS

Please refer to the small-parts kits available for purchase.

There are several kits that can help you maintain your bike for maximum trail performance: <https://shop.bikes.com/collections/parts>.

These are available from your local dealer and on [www.bikes.com](http://www.bikes.com).

#	QTY	ITEM	PARTS NO.	DESCRIPTION
			<b>1811024</b>	<b>2021 ALTITUDE LINK 27.5" (S,M)</b>
33	1	LINK	1091006	2021 ALTITUDE LINK 27.5" (S, M)
			<b>1811025</b>	<b>2021 ALTITUDE LINK 29" (M, L, XL)</b>
34	1	LINK	1091001	2021 ALTITUDE LINK 29" (M, L, XL)
			<b>1811003</b>	<b>2021 HANGER KIT</b>
29	1	HANGER	1091004	REAR DER. HANGER, EXT THREAD, UDH COMPATIBLE
6	1	HANGER NUT	1801008	HANGER/AXLE NUT FOR UDH COMPATIBLE HANGER
64	1	WASHER	1801009	WASHER 20X24X0.5MM, 304 SS
			<b>1811004</b>	<b>PIVOT BOLT KIT ALT 2021</b>
9	1	BOLT	1800011	LINK BOLT, UPPER, M10X1.0, L:58.5, 6MM HEX
10	1	BOLT	1801004	LINK BOLT, LOWER, M10X1.0, L:70.5, 6MM HEX
63	3	WASHER	1800019	WASHER ID: 10.2, OD: 15.5, T: 1
57	1	SLEEVE	1801006	MAIN PIVOT BEARING SLEEVE, OD:15, ID:10, T:39, 6061 ALU
60	2	SPACER	1800047	MP BEARING SPACER, OD:22, ID:10, T:2.65
11	1	BOLT	1801005	MP BOLT, M10X1.25, L:75, 6MM HEX
35	1	MP CHIP	1801001	MAIN PIVOTCHIP
54	1	SLEEVE	1800008	TT BEARING SLEEVE, ID:10, OD:14, L:29
58	4	SPACER	1800009	LINK BEARING SPACER, OD:22, ID:10, T:2.5
55	1	SLEEVE	1800010	SS BEARING SLEEVE, ID:10, OD:14, L:41, NECKED
12	2	BOLT	1801007	DROPOUT BOLT, M8X1.0, L:30, 6MM HEX
59	4	SPACER	1800039	DO BEARING SPACER, OD:16, ID:8, T:1.5, 6061 ALU
56	2	SLEEVE	1800040	DROPOUT BEARING SLEEVE, OD:14, ID:8, T:1.8, 6061 ALU
			<b>1811005</b>	<b>PIVOT BEARING KIT ALT 2021</b>
7	6	BEARING	1807042	ENDURO BEARING 6900 2RS MAX TYPE, 22X10X6 SIZE
6	4	BEARING	1801010	ENDURO 688 LLU MAX 16X8X5
			<b>1811006</b>	<b>SHOCK BOLT KIT ALT 2021</b>
13	1	BOLT	1801018	SHOCK BOLT, M8X1.0, L:34.5, 5MMHEX
15	1	BOLT	1807049	CSUNK BOLT, 8MM X 57MM X M6 INT
47	1	SCREW, M6X12	180566-012	FLAT HEAD CSUNK SOCKET SCREW, M6-1.0 X 12MM, STAINLESS BLACK

## SMALL PARTS KITS

#	QTY	ITEM	PARTS NO.	DESCRIPTION
			<b>1811007</b>	<b>SHOCK BEARING EYELET KIT ALT 2021</b>
17	2	BRG SPACER	1800032	EYELET BEARING SPACER, T:6.3, FOR 40 MM LINK WIDTH
6	2	BEARING	1801010	ENDURO 688 LLU MAX 16X8X5
8	1	BEARING SLEEVE	1807028	BEARING EYELET CENTRE SLEEVE
16	2	BRG CUP	1800031	BEARING EYELET FOR 16X8X5 BRG
			<b>1811008</b>	<b>CHAIN GUIDE KIT ALT 2021</b>
14	1	BOLT	1801019	SOCKET HEAD CAP SCREW M5X8, BLUE LOCTITE
22	1	CHAINGUIDE	3391004	ONEUP CHAINGUIDE ASSEMBLY (1C0686)
23	1	CHAINGUIDE BASE	3391001	BASE PART OF CHAINGUIDE
24	1	CHAINGUIDE SLIDE	3391002	SLIDING PART OF CHAINGUIDE
			<b>1811009</b>	<b>BIKE PROTECTION ALT 2021 FOR 29" &amp; LG/XL 27.5"</b>
39	1	PROTECTOR	3701003	CHAINSTAY PROTECTOR
41	1	PROTECTOR	3701001	SEATSTAY PROTECTOR
37	1	PROTECTOR	370001	DOWNTUBE PROTECTOR
38	2	PROTECTOR	370002	TAILGATE PROTECTOR
			<b>1811010</b>	<b>BIKE PROTECTION ALT 2021 FOR XS/S/M 27.5"</b>
39	1	PROTECTOR	3701003	CHAINSTAY PROTECTOR
41	1	PROTECTOR	3701001	SEATSTAY PROTECTOR
38	2	PROTECTOR	370002	TAILGATE PROTECTOR
40	1	PROTECTOR	3701005	DOWNTUBE PROTECTOR XS, S, M (27.5")
			<b>1817011</b>	<b>AXLE KIT BOOST</b>
4	1	AXLE, REAR	3227009	REAR AXLE 12X 173MM, HARD BLACK ANO
68	1	WASHER	3227006	WASHER, 12X19X0.5MM, 304 SS
			<b>1811011</b>	<b>AXLE FLIP CHIP KIT</b>
2	1	AXLE CHIP	3221001	AXLE FLIP CHIP, LEFT
3	1	AXLE CHIP	3221002	AXLE FLIP CHIP, RIGHT
38	1	O-RING	1805081	O-RING, ID 24.5MM, W:1.50 NITRILE
			<b>1811012</b>	<b>UDH STOPPER KIT</b>
62	1	UDH STOP	1801003	UDH STOPPER
46	1	SCREW, M5X10	1808152OVT	CSUNK SOCKET SCREW, M5-0.8X10MM. BLACK STAINLESS STEEL
			<b>1811013</b>	<b>BRAKE ADAPTER KIT FOR 2 POSITION AXLE</b>
1	1	ADAPTER	1801022	BRAKE ADAPTER
42	2	SCREW	1801023	M6-1.0, 22MM LONG, SOCKET HEAD

**SMALL PARTS KIT**

#	QTY	ITEM	PARTS NO.	DESCRIPTION
			<b>1810022</b>	<b>HEAD TUBE PANEL KIT 2020</b>
30	1	HT PORT COVER, LEFT	1800004	HT PLASTIC PORT COVER, M4, LEFT
31	1	HT PORT COVER, RIGHT	1800003	HT PLASTIC PORT COVER, M4, RIGHT
43	2	SCREW, M4X10	1800024-BK	CSUNK SOCKET SCREW, M4X10MM, STAINLESS BLACK
			<b>1811016</b>	<b>BB CABLE PORT KIT ALT 2021</b>
5	1	BB PORT COVER	1800001	SLAYER BB PLASTIC PORT COVER
28	1	GROMMET	1800002	SLAYER BB PORT GROMMET, 85A
45	2	SCREW, M4X8	1807068-BK	CSUNK SOCKET SCREW, M4X8MM, STAINLESS BLACK
			<b>1810009</b>	<b>RIDE9 FLIP CHIP KIT</b>
25	2	FLIP CHIP	1807003	FLIP CHIP, OUTSIDE, AL7075, BLACK ANODIZE
26	2	FLIP CHIP	1807004	FLIP CHIP, INSIDE, AL7075, BLACK ANODIZE
			<b>1811017</b>	<b>CANADIAN SHIELD 29 KIT ALT 2021</b>
19	1	CANADIAN SHIELD 29	1091005	29" CHAINSTAY YOKE COVER
44	2	SCREW, M4X10, BLACK	1801013	SOCKET HEAD CAP SCREW; M4X10
			<b>1811018</b>	<b>CANADIAN SHIELD 27.5 KIT ALT 2021</b>
20	1	CANADIAN SHIELD 27.5	1991006	27.5" CHAINSTAY YOKE COVER
44	2	SCREW, M4X10, BLACK	1801013	SOCKET HEAD CAP SCREW; M4X10

## WARRANTY INFORMATION

Your bicycle is warranted against defects in materials and manufacturing as per the following table:

CATEGORY	TERM	NOTES
Frame members	5 years	Front triangle + rear triangle, links
Hardware	1 year	Pivots, axles, etc.
Drive wear items	1 year	Pulleys, pinions, transfer chain
Battery	2 years	If stored for 3+ months, charge battery every 3 months. Failure to do so may cause damage.
Components	As per original manufacturer warranty	

All warranty and after-sale service must be handled by the authorized dealer who sold the complete bicycle or frame. We cover your Rocky Mountain frame for defects in material and workmanship from the original date of purchase of your new Rocky Mountain bicycle according to the frame material and the type of use.

### Frame material / type of use

- Carbon fibre: 5 years – Limited\*
- Aluminum – front and fully suspended: 5 years – Limited\*
- Downhill and freeride: 3 years – Limited\*

\* Please refer to the limitations stated below.

### NOTE – Warranty is not valid for:

- The installation of components, parts or accessories that are not originally intended for or compatible with the bicycle (or frame) as sold
- The purchase of a Rocky Mountain bicycle from an unauthorized dealer

- The purchase of a Rocky Mountain bicycle or frame from third-party internet sites (such as eBay), no matter what the listing says
- This limited warranty covers bicycles previously used for commercial activity such as rental (bike park), courier, police, security, etc. against defects in material and workmanship. Hardware, bearings, pivots and bushings are excluded from our warranty policy.

### Warranty coverage against other defects in workmanship and materials

- Coating – paint and decals: 1 year
- Full suspension frame hardware, bearings, pivots and bushings\*: 1 year.  
\*Links are part of the frame.
- Downhill and freeride frame hardware, suspension: 6 months

**What is not covered?**

- Normal wear and tear
- Damage or failure caused by accident, misuse, abuse or neglect
- Extreme or improper use of your Rocky Mountain bicycle outside of its intended purpose
- Improper assembly and/or lack of proper maintenance
- Paint fading caused by the effects of ultraviolet light (UV) or outdoor exposure is not covered by this limited warranty.
- Scratches and/or chips in the paint caused by dirt, rocks, road debris, roof rack transport, etc. are not covered by this limited warranty.
- Components, parts or accessories not compatible with the bicycle (or frame)
- Damage on pressfit bottom bracket caused by improper service or materials/parts is not covered by the Rocky Mountain Limited Warranty.

**Details of what is not covered under warranty**

- Normal wear and tear on tires, tubes, brakes, gear cables, brake pads, etc. is not covered. Your authorized Rocky Mountain dealer will tell you what these normal maintenance items are.
- Consequential damage or any damage caused by accident, misuse or abuse.
- Improper assembly and/or lack of proper maintenance, sandblasting, sanding, grinding, wire brushing, filing, welding, brazing, drilled holes, anodizing, repainting and chrome plating are not covered under your warranty and may void the warranty of the component manufacturers.

- If you ride in extreme terrain, as depicted in mountain biking videos (e.g., by taking "trial"-style riding courses, riding ramps, performing stunts, riding on BMX tracks, riding in the city down stairs and embankments or riding in other similar terrain), you put yourself at great personal risk and forfeit the warranty as outlined in the Warranty Table. It is important to note that bent components, frames, forks, handlebars, seat posts, pedals, cranks and wheel rims are signs of accidents and/or abuse.
- Labour for part replacement or changeover is not included.
- Rocky Mountain Bicycles reserves the right to repair or replace at its discretion any part that is deemed to be covered by a valid warranty.
- Please note that Rocky Mountain Bicycles cannot guarantee a colour match to the original part.
- This warranty extends from the date of purchase, applies only to the original owner, and is not transferable.

**EXCLUSION AND LIMITATION OF DAMAGES**

THE WARRANTY OF ROCKY MOUNTAIN BICYCLES IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCTS AND DOES NOT GRANT ANY WARRANTY, EITHER EXPRESSED OR IMPLIED, LEGAL OR CONVENTIONAL, AND DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES, AND ROCKY MOUNTAIN SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR DIRECT OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN WHERE ROCKY MOUNTAIN HAS BEEN ADVISED OF SUCH DAMAGES, AND ROCKY MOUNTAIN'S LIABILITY SHALL BE LIMITED TO \$50.00.



**LOVE THE RIDE**

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