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# ALPINE TRAIL E



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### IMPORTANT INFORMATION

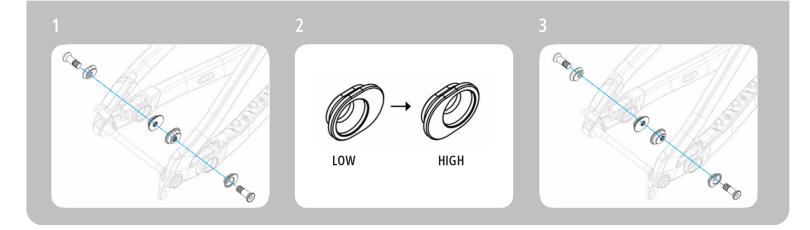
The Marin Alpine Trail E is a bike that can be adjusted to match the rider's needs and terrain. This document is intended to supplement the complete owner's manual. This document contains an overview of some parts diagrams, specifications, and adjustment instructions. This document is NOT a complete owner's manual and does not include important safety and installation information. You must refer to the complete owner's manual and get help from your official Marin dealer with assembly, use, service, and maintenance. Visit marinbikes.com/support for more information.

Failure to follow proper assembly instructions, hazard warnings, and compatible part recommendations may result in loss of control while riding and can lead to serious injury and/or death. We recommend having your bike assembled, adjusted, and serviced by a trained, professional bicycle mechanic. This manual is not intended to replace the assembly and service instructions provided by third-party component manufacturers.

### ADJUSTING THE BOTTOM BRACKET HEIGHT & CHAINSTAY LENGTH

The Alpine Trail E frame can be adjusted for both bottom bracket (BB) height and chainstay (CS) length via flip chips at the chainstay pivot point to adapt to the trail and rider's preferences. The rider can choose between the factory setting LOW BB and LONG CS or a HIGH BB and SHORT CS position. To change to the HIGH BB and SHORT CS position, follow the steps below.

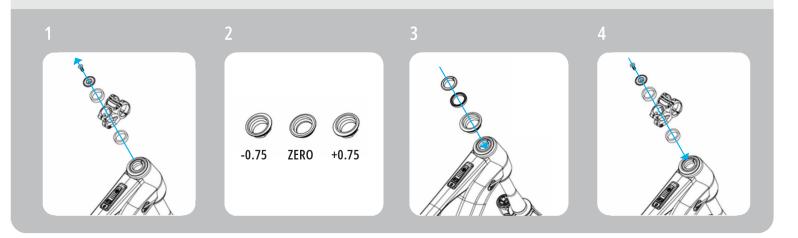
- 1. Remove the rear wheel. Then use a 6 mm hex wrench to remove the pivot bolts on the left and right chainstay rear pivot.
- 2. Rotate the flip chips 180 degrees (from LOW to HIGH). The HIGH call out will be right side up.
- 3. Use a 6 mm hex wrench to reinstall the two pivot bolts. Torque the bolts to 20 N•m. Reinstall the rear wheel. The bike is now in the HIGH BB and SHORT CS position.



### ADJUSTING THE HEADTUBE ANGLE

TheAlpineTrailEbikefeaturesanadjustableheadtubeanglewhichcanbechangedbyswappingtheupperheadsetcup.ThefactorysettingistheZERO offsetcupandissetto63.5degrees.steeperheatubeangle(-0.75)offersincreasedagilityforclimbingandtighter/flattertrails,andaslackerheadtubeangle (+0.75)offersincreasedstabilityfordescending.Tochangetheh eadtubeangleby+/-0.75(64.5 gr 62.7 5)degrees,followthestepsbelow.

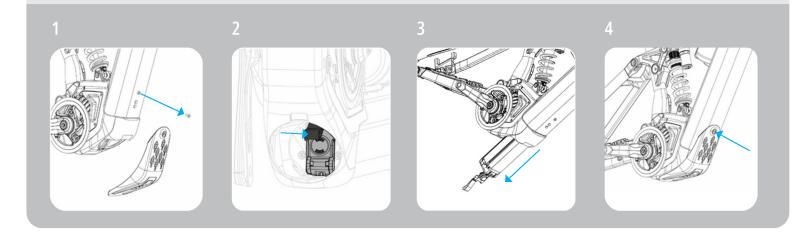
- 1. Use a 4 mm hex wrench to remove the stem bolts. Use a 5 mm hex wrench to remove the top cap bolt. Remove the stem, spacers, top cap, and upper bearing. Remove the ZERO upper headset cup.
- 2. Note the laser etched -0.75 and +0.75. The marking that is pointing to the front of the bike indicates the headtube angle adjustment.
- 3. Select and install your preferred upper headset cup.
- 4.Reinstall the other headset parts in the correct order and tighten the headset compression bolt (3-4 N•m) and then align the stem and tighten the stem bolts to 5-6 N•m (see stem for exact torque recommendations). Make sure the assembly is aligned and all parts are in place. Check the headset for play. If play exists, do not ride the bicycle and contact your local Marin dealer.



### **BATTERY REMOVAL & INSTALLATION**

The battery can be charged on the bike without removal. However, you may need to bring the battery indoors to charge without the bike, or for storage during cold months. Battery removal and installation can be done with the bike on its side, or upside down. When turning the bike upside down, lower the seat and be very careful not to damage the mini-remote on the handlebar. You may wish to loosen the mini-remote bolt slightly and rotate it out of the way. You can also use blocks under the handlebars in order to create space for the mini-remote to not contact the ground.

- 1. Use a 3 mm hex wrench to remove the bolt from the downtube cover. Pull down on the downtube cover to release it from the bike.
- 2. Pull the loop and release the lever, at this time the battery will begin to slide out.
- 3. Remove the battery from the bike.
- 4. To reinstall the battery, press the lever down to secure it back onto the battery. Then, slide the battery back in along the rails on the bottom surface of the downtube. Use a 3 mm hex wrench to reinstall the bolt and downtube cover.

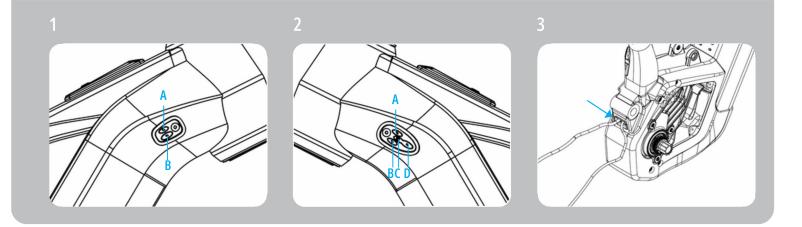


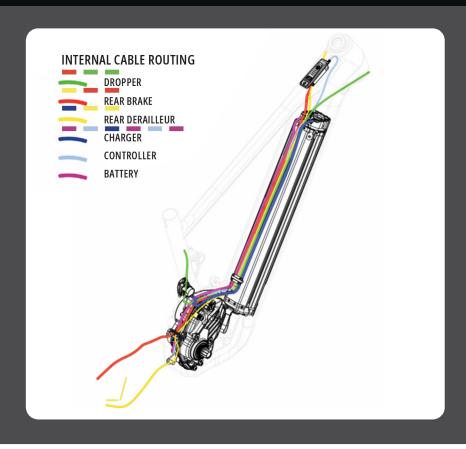
### **CABLE ROUTING & RUBBER GROMMETS**

All cables and housing travel through Marin's Series 4 grommets, which are sealed with a rubber membrane to keep out the elements. On the next page is a diagram to help guide you on how the routing is designed through the frame. We recommend only trained, professional bicycle mechanics complete this installation. 1. Drive side grommets: 4 mm/dropper or shifting cable port (Figure 1A), 5 mm/brake line port (Figure 1B). 2. Non-drive side grommets: 4 mm/dropper or shifting cable port (Figure 2A), display or light cable (Figure 2A), 5 mm/brake line

port (Figure 2D).

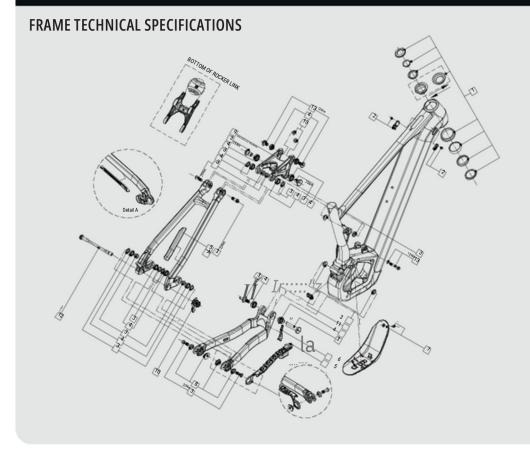
3. The rubber gasket keeps things rattle-free and protects the frame.





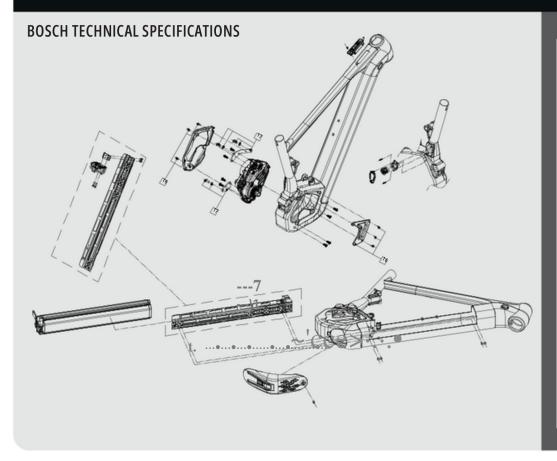
## FRAME TECHNICAL SPECIFICATIONS

FORK AXLE TO CROWN		REAR WHEEL TRAVEL		CHAINLINE	BEARING S	PECIFICATION	QUANTITY	BOSCH E PARTS		
OE Specification	586 mm 596 mm	160 mm	ATIDILITY		52 -55 mm	9602 6802	15x28x7 mm 15x24x5 mm	4	Speed Sensor	Rim Magnet for Smart System
*NOT dual crown compatible		Front Rear	29x2.6" MA		SEAT COLLAR DIAMETER 38.9 mm	3802 6901	15x24x7 mm 12x24x6 mm		Motor Mount  Battery  Compatibility	BDU37, CX PT750
									Battery Mount	PT750 Horizontal Rail
SHOCKINFO		HEADSET SP	PECIFICATIO	ON	REAR BRAKE MOUNT	SEATPOST D	IAMETER		Charge Port	COBS connector with V6 cover holder
Eye to Eye Stroke	205 mm 65 mm	FSA Number 7		ific Design (see ber)	Post Mount 180 mm  Max Rotor Size 220 mm	34.9 mm			Power Switch	BRC3100 Systems Controller
SHOCK HARDWARE		Top Bearing		FSA MR122		SEAT TUBE	INSERTION DEPTH	1	Assist Mode Switch	Mini-Remote
Upper	Trunnion	Bottom Bearin	g	FSA MR127	REAR AXLE	м	290 mm		Charger	2A
Lower	30 mm x M8				148x12 mm 174 mm length, M12 x 1.0 Pitch	L XL	300 mm			
						XL	320 Hilli			



<b>ITEM #</b>	ARTICLE #	DESCRIPTION Adjustable Headset Assembly
	738409	
	738410	Series 4 Cable Grommet Kit
	738400	Pivot Bolt Kit J
	738244	Bearing Kit F
	738403	Chainstay & Seatstay Protector
	738405	ChainstayYoke Cover, Stick-On, Alpine Trail E Bosch
	738408	Skid Plate, Alpine Trail E Bosch
	738245	Chainstay Flip Chip Assembly
	739301	Rocker Link, Alpine Trail E Bosch
	AC-DRHG- MTB-A1	SRAM UDH
	739317	Cable Grommet for FT Exit Hole
	736031	Bolt On Axle Kit 148x12mm, 174MM Length, Tapered Head
	738243	Shock Bolt Kit I

ALPINE TRAIL E



ITEM #	ARTICLE #	DESCRIPTION  Motor Side Covers L & R, with
	739679	Bolts
	739679	ATE Bosch CX Mounting

Brackets, bolts included

### MARIN CUSTOMER SUPPORT

Your local Marin dealer is your best resource for service and repairs, but if you need to contact us directly, visit marinbikes.com/about/contact-us

Warranty Visit marinbikes.com/support

# **ALPINE TRAIL**



TECHNICAL MANUAL

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Rubber Grommets	7	Frame	Technical	Specifications
9	Marin	С	ustomer	Support
11				

### IMPORTANT INFORMATION

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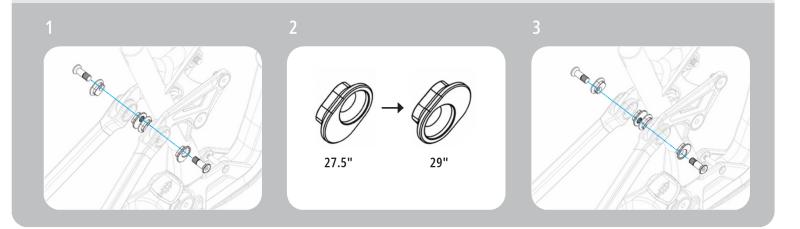
#### CHANGING THE REAR WHEEL SIZE

The Alpine Trail bike comes from the factory with a mixed wheel size set up (29" front/27.5" rear), and can also be setup as a full 29" wheel size bike. The rear wheel size can be changed to a 29" rear wheel (sold separately) by rotating the flip chips at the seatstay and rocker link pivot. To change to a 29" rear wheel, follow the steps below.

Note: The 29" rear wheel is NOT included and must be purchased separately. The Alpine Trail is designed around a 29" front wheel, and this wheel size should not be changed.

WARNING: Do not use a 27.5" rear wheel when the bike is in the 29" flip chip setting. This will result in a bottom bracket that is too low and unsafe, which can cause **a crash, serious injury, and/or death.**1. Use a 6 mm hex wrench to remove the bolts on the left and right side of the rocker link.

- 2. Rotate the flip chips 180 degrees, so the "29" laser etching will be right side up.
- 3. Use a 6 mm hex wrench to reinstall the pivot bolt, torque bolts to 20 N·m. The frame is now ready to accept a 29" rear wheel.



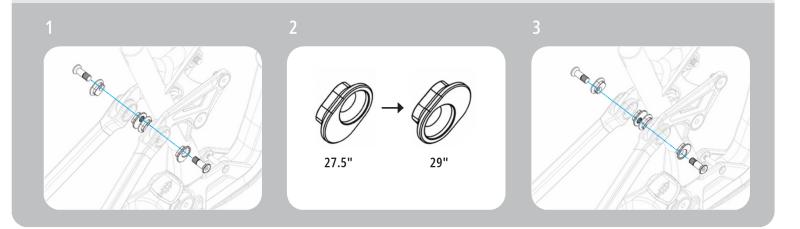
#### CHANGING THE REAR WHEEL SIZE

The Alpine Trail bike comes from the factory with a mixed wheel size set up (29" front/27.5" rear), and can also be setup as a full 29" wheel size bike. The rear wheel size can be changed to a 29" rear wheel (sold separately) by rotating the flip chips at the seatstay and rocker link pivot. To change to a 29" rear wheel, follow the steps below.

Note: The 29" rear wheel is NOT included and must be purchased separately. The Alpine Trail is designed around a 29" front wheel, and this wheel size should not be changed.

WARNING: Do not use a 27.5" rear wheel when the bike is in the 29" flip chip setting. This will result in a bottom bracket that is too low and unsafe, which can cause **a crash, serious injury, and/or death.**1. Use a 6 mm hex wrench to remove the bolts on the left and right side of the rocker link.

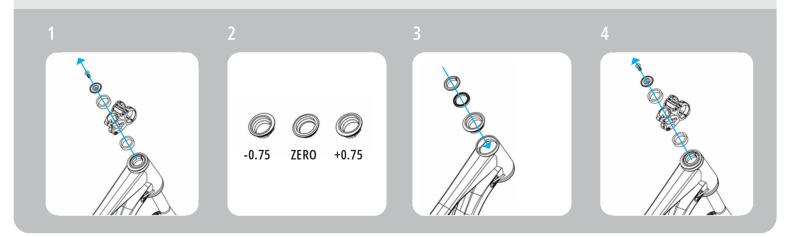
- 2. Rotate the flip chips 180 degrees, so the "29" laser etching will be right side up.
- 3. Use a 6 mm hex wrench to reinstall the pivot bolt, torque bolts to 20 N·m. The frame is now ready to accept a 29" rear wheel.



### ADJUSTING THE HEADTUBE ANGLE

The Alpine Trail bike features an adjustable headtube angle which can be changed by swapping the upper headset cup. The factory setting is the ZERO offset cup and is set to 63.5 degrees. A steeper headtube angle (-0.75) gives increased agility for climbing, and a slacker headtube angle (+0.75) offers increased stability for descending. To change the headtube angle by +/-0.75 (64% or 62.5) degrees, follow the steps below.

- 1.Use a 4 mm hex wrench to remove the stem bolts. Use a 5 mm hex wrench to remove the top cap bolt. Remove the stem, spacers, top cap, and upper bearing. Remove the ZERO upper headset cup.
- 2.Note the laser etched -0.75 and +0.75. The marking that is pointing to the front of the bike indicates the headtube angle adjustment.
- 3. Select and install your preferred upper headset cup.
- 4.Reinstall the other headset parts in the correct order and tighten the headset compression bolt (3-4 N•m) and then align the stem and tighten the stem bolts to 5-6 N•m (see stem for exact torque recommendations). Make sure the assembly is aligned and all parts are in place. Check the headset for play. If play exists, do not ride the bicycle and contact your local Marin dealer.



### **BEAR BOX DOWNTUBE STORAGE & BAG**

This bike features the Marin Bear Box downtube storage. The included bag is designed to hold a TPU tube, minipump and tools. Note that a standard innertube is too large and will not fit; a TPU tube is the only tube that will fit in the bag. A standard tube can be mounted under the top tube.

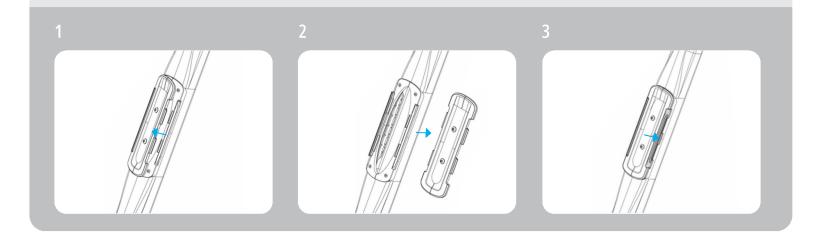
1. To open the door of the Bear Box, lift the latch on the drive side. Then, carefully pull the door towards the drive side of the bike so the locating tabs

are fully removed from the frame.

NOTICE: Be careful to fully remove the locating tabs from the grooves in the frame as you remove it toward the drive side of the bike. Failure to do so can break the locating tabs and cause damage to your Bear Box.

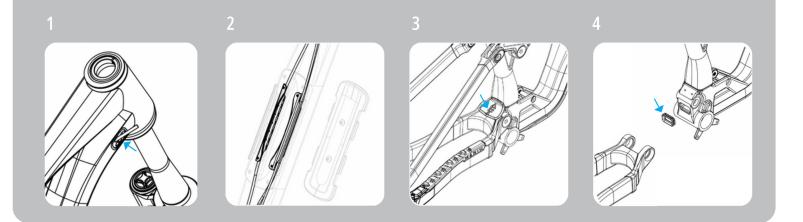
2. Pull the bag out of the Bear Box and place supplies inside. Make sure supplies are secure, then push the bag back into the Bear Box.

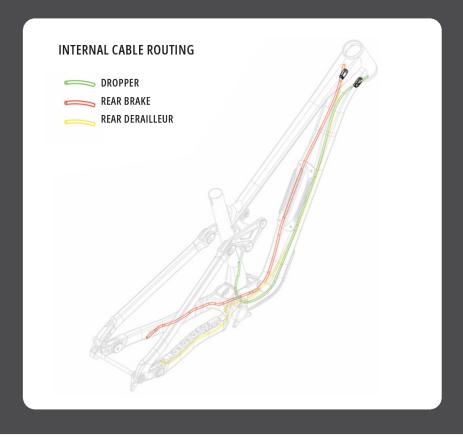
3.To close the Bear Box, carefully insert the locating tabs of the door into the non-drive side grooves in the frame, then close and latch the door.



### **CABLE ROUTING & RUBBER GROMMETS**

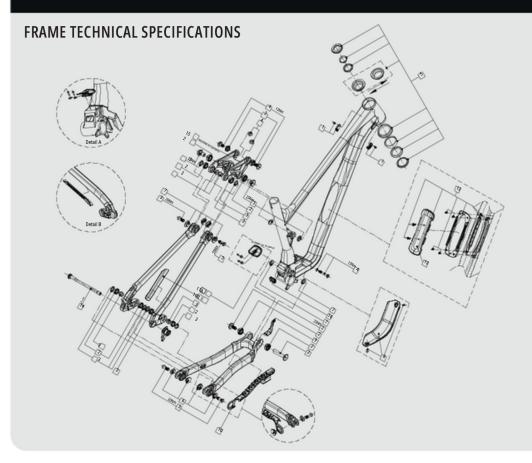
- 1. All cables and housing travel through Marin's Series 4 grommets, which are sealed with a rubber membrane to keep out the elements. On the next page is a diagram to help guide you on how the routing is designed through the frame. We recommend only trained, professional bicycle mechanics complete this installation.
- 2. All cables and housing are clamped in the frame using mounting points under the Bear Box, keeping things rattle-free and tidy.
- 3. A Marin mud flap keeps out dirt and water.
- 4. The rubber gasket keeps things rattle-free and protects the frame.





## FRAME TECHNICAL SPECIFICATIONS

FORK AXLE TO CROWN		REAR WHEEL TRA	VEL	CHAINLINE	BEARING S	PECIFICATION	QUANTITY
OE Specification	586 mm	160 mm	1777	52-55 mm	9602 6802	15x28x7 mm 15x24x5 mm	4
*NOT dual crown compatible	370 mm		JIY 29x2.6" MAX TIRE COMPATIBILITY 2.6" (27.5" stock or 29")	SEAT COLLAR DIAMETER 38.9 mm	3802 6901	15x24x7 mm 15x24x6 mm	2
SHOCK INFO		HEADSET SPECIFI	CATION	REAR BRAKE MOUNT	SEATPOST [	DIAMETER	
Eye to Eye Stroke	205 mm 65 mm	FSA Number 76 Marin : Marin part number)	Specific Design (see page 10 for	Post Mount 180 mm	34.9 mm	REAM DEPTH	
SHOCK HARDWARE  Upper  Lower	Trunnion 30 mm x M8	Top Bearing Bottom Bearing	FSA MR122 FSA MR127	REAR AXLE  148×12 mm  174 mm length, M12 × 1.0 Pitch	S M L XL	270 mm 290 mm 300 mm 320 mm	



<b>ITEM #</b>	ARTICLE #	DESCRIPTION Series 4 Cable Grommet Kit, Analog Bike
2	738244	Bearing Kit F
3	738242	Pivot Bolt Kit I
5	738243	Shock Bolt Kit I
6	738409	Adjustable Headset Assembly
	738245	Chainstay Flip Chip Assembly
7	738246	Seatstay/Rocker Flip Chip Assembly
8	738407	DT Protector
9	738404	Alpine Trail CS Yoke Protector
11	738403	Chainstay and Seatstay Protector
12	738406	Alpine Trail Mud Flap with Bolts
13	738401	Bear Box Storage Assembly
14	738402	Bear Box Door Only
	739302	Bear Box Bag
15	736031	Bolt On Axle Kit 148x12 mm, 174 mm Length, Tapered Head
16	739300	Alpine Trail Rocker Link
17	739317	Cable Grommet for FT Exit Hole

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Warranty Visit marinbikes.com/support