English USER MANUAL CRUX

Gravel Bicycle



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SPECIALIZED BICYCLE COMPONENTS

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1. INTRODUCTION

THIS USER MANUAL CONTAINS IMPORTANT INFORMATION, PLEASE READ IT CAREFULLY AND STORE IN A CONVENIENT LOCATION.

This User Manual was drafted in the English language and may have been translated into other languages as applicable. This manual is not intended as a comprehensive assembly, use, service, repair, or maintenance guide. Please see your Authorized Specialized Retailer for all service, repairs, or maintenance. Your Authorized Specialized Retailer may also be able to refer you to classes, clinics, or books on bicycle use, service, repair, and maintenance

This user manual is specific to the Crux, hereinafter referred to as "the bicycle," and should be read in addition to the Specialized Bicycle Owner's Manual, hereinafter referred to as "the Owner's Manual," The User Manual contains important safety, performance, and technical information, which you should read before your first ride and keep for reference. You should also read the entire Owner's Manual because it has additional important general information and instructions that you should follow. If you do not have a copy of the Owner's Manual, you can download it at no cost at www. specialized.com or obtain it from your nearest Authorized Specialized Retailer or Specialized Rider Care.

Please note all instructions and notices are subject to change and updates without notice. Please visit www.specialized.com for periodic updates or contact Rider Care to make sure you have the latest information.

Additional safety, performance, and service information for specific components such as suspension on your bicycle, or for accessories such as helmets or lights, may also be available. Make sure that your Authorized Specialized Retailer has given you all the manufacturers' literature that was included with your bicycle or accessories. In case of a conflict between the information in this user manual and information provided by a component manufacturer, please contact your nearest Authorized Specialized Retailer.

1.1. SYMBOLS

When reading this user manual, you will note various important symbols and warnings, which are explained below:

WARNING! The combination of this symbol and word indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Many of the Warnings say "You may lose control and fall." Because any fall can result in serious injury or even death, we do not always repeat the warning of possible injury or death.

CAUTION: The combination of the safety alert symbol and the word CAUTION indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury or is an alert against unsafe practices.

The word CAUTION used without the safety alert symbol indicates a situation which, if not avoided, could result in serious damage to the bicycle or the voiding of your warranty.

A	Th
U	im

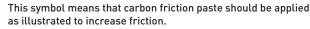
his symbol alerts the reader to information that is particularly nportant.



Tech tips are useful tips and tricks regarding installation and use.



This symbol means that high-quality grease should be applied as



1.2. WARRANTY

Please refer to the written warranty provisions provided with your bicycle. or visit www.specialized.com. A copy is also available at your Authorized Specialized Retailer.

2. GENERAL INFORMATION

2.1. INTENDED USE CONDITION 2



Bicycles designed for riding Condition 1, plus smooth gravel roads and improved trails with moderate grades where the tires do not lose ground contact. These bicycles are intended for paved roads, gravel or dirt roads that are in good condition, and bicycle paths.

These bicycles are NOT intended for off-road or mountain bicycle use, or for any kind of jumping. Some of these bicycles have suspension features, but these features are designed to add comfort, not off-road capability. Some come with relatively wide tires that are well suited to gravel or dirt paths. Some come with relatively narrow tires that are best suited to faster riding on pavement. If you ride on gravel or dirt paths, carry heavier loads, or want more tire durability talk to your Authorized Specialized Retailer about wider tires.

For more information on the intended use and structural weight limits for the frame and components, please refer to the Owner's Manual.

2.2. WEIGHT LIMITS

MODEL	CARGO WEIGHT LIMIT kg / lb	STRUCTURAL WEIGHT LIMIT kg / lb
All	Front: 0 / 0	125 / 275
models	Rear: 0 / 0	1257 275

CARGO WEIGHT LIMIT: The maximum cargo weight the bicycle is designed and tested to support structurally.

STRUCTURAL WEIGHT LIMIT: The maximum total weight (rider, bicycle, and cargo) the bicycle is designed and tested to support structurally.

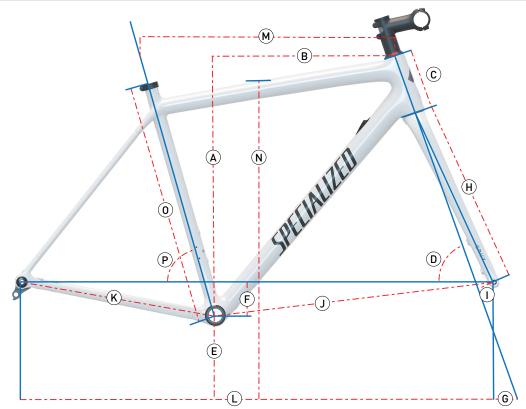
WARNING! The specified cargo weight limit applies only to cargo carried through the use of compatible equipment and seat bags. If the cargo weight limit of the bicycle differs from the cargo weight limit set by the rack or seat bag manufacturer, always use the lowest limit. If you add any other load-bearing accessories, including, but not limited to, baskets and child carriers, you do so at your own risk in that these accessories have not been tested for compatibility, reliability, or safety on your bicycle. Failure to follow this warning may result in serious personal injury or death.

CAUTION: Attaching items such as panniers, bags, water bottle cages, storage boxes, racks, or fenders to your bicycle can damage the frame. Using frame protection, such as protective decals, may help prevent damage from occurring.



For more information on the intended use and structural weight limits for the frame and components, please refer to the Owner's Manual.

3. GEOMETRY



	FRAME SIZE	49	52	54	56	58	61
А	Stack (mm)	530	547	560	578	598	621
В	Reach (mm)	375	382	388	397	405	415
С	Head Tube Length (mm)	100	115	130	147	167	190
D	Head Tube Angle (°)	70.5	71.3	71.5	72	72.3	72.5
E	BB Height (mm)	2	84		28	86	<u> </u>
F	BB Drop (mm)	74 72					
G	Trail (mm)	74	69	67	64	62	60
Н	Fork Length, Full (mm)			4()1	·	<u> </u>
I	Fork Rake Offset (mm)			5	0		
J	Front Center (mm)	594	600	608	618	630	644
К	Chainstay Length (mm)			42	25	•	
L	Wheelbase (mm)	1008	1014	1023	1033	1045	1059
М	Top Tube Length, Horizontal (mm)	512	539	549	568	582	599
N	Bike Standover Height (mm)	749	772	794	816	841	866
0	Seat Tube Length (mm)	466	496	521	546	576	606
Р	Seat Tube Angle (°)	75.5	5	74		73.5	

4. SPECIFICATIONS



4.1. PARTS SPECIFICATIONS

		DESCRIPTION	PA	RT #	TOOL SIZE	in-lbf	Nm
1	Frame						
2	Fork		S212300017				
3	*Front Derailleur (FD) H	langer	S201900005		2.5 mm	18	2.0
4	Rear Derailleur (RD) Ha	nger (SRAM UDH)	S202600002		8 mm	221	25
_	*Seat Collar TI Bolt		S174700006		4 mm	55	6.2
5	*Seat Collar Steel Bolt		S174700005		4 mm	55	6.2
6.1	Rail Clamp Bolt Male		-		5 mm	120	13.5
6.2	Seatpost Alpinist	Front Rail Clamp Bolt Rear Rail Clamp Bolt	S204900004		4 mm 5 mm	26.5 55	3.0 6.2
7	*Di2 Battery Sleeve		S186800006				
8	Front Axle		S200200010		6 mm	133	15
9	Rear Axle		S200200011		6 mm	133	15
10	Water Bottle Bolts		S220500004		3 mm	25	2.8
11	Cable Housing Ferrule (7.5 mm angled ICR grommet)	S179900013				
12	Stem Top Cap		S202500013		4 mm		
13	Chang	1: Stem Steerer Bolts			4 mm	5	44
13	Stem	2: Stem Faceplate Bolts			4 mm	5	44
14	Stem Spacers						
15	Headset Cover						
16	Compression Ring		S192500005	621250002/			
17	Upper Headset Bearing		S092500002	- S212500024			
18	Lower Headset Bearing		S162500005				

19	Expander Plug	S202500011	6 mm	45	5.1
20	*Rear Derailleur Plug (Wired Di2)	S159900006			
21	*Rear Derailleur Plug (Wireless SRAM)	S179900015			
22	*Rear Derailleur Plug (Mechanical)	S226500002			
23	Down Tube ICR Cover Plate (Wireless)	S186500003	2.5 mm	7	0.8
24	Down Tube ICR Mechanical Port	S216500009	2.5 mm	7	0.8

*Not all models are equipped with all the above components.

All models are compatible with electronic shifting (wired or wireless) and are compatible with 1x mechanical configurations.

4.2. TORQUE SPECIFICATIONS

WARNING! Correct tightening force on fasteners (nuts, bolts, screws) on your bicycle is important for your safety. If too little force is applied, the fastener may not hold securely. If too much force is applied, the fastener can strip threads, stretch, deform, or break. Either way, incorrect tightening force can result in component failure, which can cause you to lose control and fall. Where indicated, ensure that each bolt is torqued to specification. After your first ride, and consistently thereafter, recheck the tightness of each bolt to ensure secure attachment of the components.

CAUTION: Ensure that all contact surfaces are clean and bolt threads are greased or have a thread-locker compound (refer to the instructions for each bolt) prior to installation.

Many bolts have a blue thread-lock patch on the threads to help secure the bolt under torque. Repeated installation and removal of a bolt may reduce the effectiveness of the patch. However, it can be replaced with the application of a liquid blue thread locker.

The following tools are required for installation of this product:

2, 2.5, 3, 4, 5, 6 mm socket-style Allen key bits	Torque wrench	High-quality grease	
Cable housing cutters	Carbon assembly compound (fiber paste)	Thread-locker	

5. GENERAL NOTES ABOUT ASSEMBLY

This manual is not intended as a comprehensive assembly, use, service, repair, or maintenance guide. Please see your Authorized Specialized Retailer for all service, repairs, or maintenance. Your Authorized Specialized Retailer may also be able to refer you to classes, clinics, or books on bicycle use, service, repair, and maintenance.



In order to successfully build your bicycle, it's very important to follow the order of operations as outlined in this manual. Modifying the order of assembly will result in a longer build process.

Assembly of the front end of the bicycle is easiest with the rider's fit already determined (the steerer tube doesn't need to be cut at this time; it can stick out the top of the stem) prior to routing all the housings and wires through the frame and fork.

To determine fit, it's recommended to use a fit tool. If this isn't possible, perform a basic assembly of the wheels, drivetrain, and front-end components without the brakes and housings. Once the fit is complete, all the components need to be removed in order to route the housings and wires.

Many bolts have a blue thread-locker patch on the threads to help secure the bolt under torque. Repeated installation and removal of a bolt may reduce the effectiveness of the patch. However, it can be replaced with the application of a liquid blue thread-locker.

5.1. TIRE SIZES

Tire sizes vary significantly from brand to brand. CEN standards require a minimum of 6 mm of clearance between the frame/fork and the tires. When choosing a wheel and tire combo, factor in enough clearance for the conditions, setup, and wheel flex.

5.2. BOTTOM BRACKET

- The Crux frame uses a 68 mm standard BSA threaded design bottom bracket.
- Before installing the bottom bracket (BB) and crank, make sure all housings and wires are routed through the frame.
- Grease the threads, install the BB, and torque according to the manufacturer's instructions.

CAUTION: Do not face the bottom bracket shell! This can prevent proper installation of the crank. Your Specialized frame does not require any bottom bracket shell pre-installation preparation, as all surfaces have been precisely machined to specific tolerances at the factory for proper interface with a compatible crankset. Please refer to the manufacturer's instructions for crank and bottom bracket installation.

CAUTION: Always use a bottom bracket equipped with a sleeve between the two cups. Running a bottom bracket without the sleeve can result in housings and/or wires contacting the bottom bracket spindle, which can result in wear.

5.3. RECOMMENDED TIRE PRESSURES

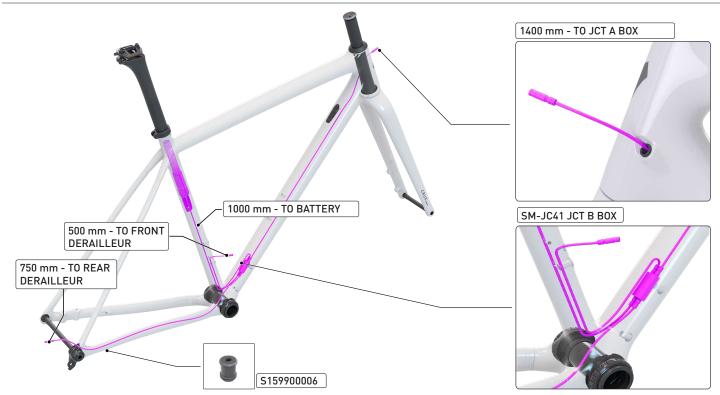
The tires must be inflated, periodically checked, and re-inflated using a pump with an accurate pressure gauge.

Pump the tires up to your desired pressure. Refer to the tire's sidewall for pressure range. Check your wheel manual or decal on the rim itself to see if your wheels have a maximum pressure limit. Do not exceed it.

WARNING! Never inflate a tire beyond the maximum pressure marked on the tire's sidewall or the maximum pressure limit specified by the wheel manufacturer, whichever is lower. Failure to follow this warning may cause the tire to blow off the rim and may result in serious personal injury.

6. BRAKE AND SHIFT ASSEMBLY

6.1. SHIFTING - ELECTRONIC WIRED SYSTEM



FRAME WIRING LENGTHS

LOCATION	QTY	LENGTH
JCT B Box to Cockpit (Shifter)	1	1400 mm
JCT B Box to Rear Derailleur	1	750 mm
JCT B Box to Front Derailleur	1	500 mm
JCT A Box to Battery (Seatpost)	1	1000 mm

(Shimano Di2)

 Route a 1400 mm wire from the head tube ICR port, down the down tube and out the bottom bracket hole.

The Di2 wire must be routed into the down tube before the rear brake housing.

- Route a 750 mm wire starting from the chainstay port and out the bottom bracket hole.
- Route a 500 mm wire starting from the seat tube front derailleur port and out the bottom bracket hole.
- Route a 1000 mm wire down from the top of the seat tube and out the bottom bracket hole.
- Install the battery sleeve on the battery, then install the battery/sleeve assembly in the seatpost.
- Plug the 1000 mm battery wire into the battery, then install the seatpost as described in section 7.
- Plug the four wires exiting the bottom bracket shell into a Junction B box, then place the Junction B box and the wires in front of the bottom bracket shell.



To prevent the JCT B box from rattling, wrap the box in a bit of foam before placing it in front of the bottom bracket shell.

6.2. SHIFTING - MECHANICAL SYSTEM, FULL LENGTH HOUSING (REAR DERAILLEUR AND DROPPER POST)



- Install the down tube cable guide in the down tube ICR port.
- Install full-length housing to the rear derailleur. Internal routing kits and magnets are helpful.

Use a similar procedure for the cable-actuated dropper seatpost.



Route the rear brake hose:

- Route the rear brake hose through the chainstay ICR port, over the bottom bracket shell, and up the down tube.
- Install a churro (foam sleeve) over the brake housing and into the down tube.
- Route the brake hose out of the head tube ICR port.
- Install a grommet over the brake housing and into the head tube ICR port.
- Install the caliper on the chainstay.
- Complete the rear brake installation according to the brake manufacturer's instructions.

Route the front brake hose:

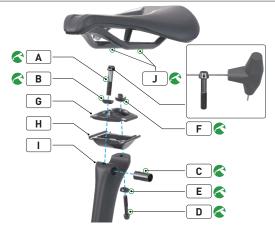
- Run the front brake hose in through the lower ICR port in the fork and guide it up the fork leg until it exits at the ICR port on the fork crown.
- Install a grommet over the brake housing and into the upper fork ICR port.
- Complete the front brake installation according to the brake manufacturer's instructions.

7. SEATPOST ASSEMBLY



Most models come with the Terra seatpost (5.5.2).

7.1. ALPINIST SEATPOST



#	DESCRIPTION
Α	M6 Bolt
В	M6 Cradle Washer
С	M6 Barrel Nut
D	M5 Bolt
Е	M5 Cradle Washer
F	M5 Nut

- Grease and install the M6 barrel nut (C) inside the seatpost.
- Grease and assemble the M6 bolt (A) and M6 cradle washer (B), then install them in the upper cradle.
- Using a 5 mm Hex key, torque the M6 bolt (A) to 26.5 in-lbf / 3 Nm.
- Install the lower cradle, followed by the saddle (with greased rails) and upper cradle assembly (G).
- Grease and assemble the M5 bolt (D) and M5 cradle washer (E), then install the bolt and spacer through the seatpost bolt hole and through the lower cradle (H).
- Grease and install the M5 nut (F) onto the M5 bolt (D).
- Adjust the saddle fore-aft position, then adjust the angle of the saddle by turning the M6 bolt (A).
- With a 4 mm Hex key, torque the M5 bolt (D) to 55 in-lbf / 6.2 Nm, then check the saddle angle. If the angle still needs to be adjusted, loosen the M5 bolt (D), loosen or tighten the M6 bolt (A) accordingly, then torque the M5 bolt again. Repeat until the saddle is at the desired angle.



If using a saddle without a central opening, bolt (A) can be adjusted by inserting a 1.5 mm hex key through the holes on the sides of the bolt head.

7.2. TERRA SEATPOST



#	DESCRIPTION
А	Inboard Rail Clamp
В	Seatpost
С	Outboard Rail Clamp
D	Bolt (Male)
Е	Bolt (Female)
F	Washer

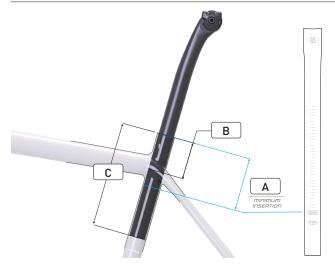


7.3. SEATPOST CLAMP



- Make sure the seat collar bolt is facing toward the back of the bike.
- If using Shimano Di2, install the battery in the seatpost using the grommet assembly (S186800006), then plug the seat tube wire into the battery.
- Apply carbon assembly compound (fiber paste), then insert the seatpost into the seat tube.
- Grease the seat collar bolt and spacer, then use a 4 mm Hex key to torque the bolt to 55 in-lbf / 6.2 Nm.

7.4. SEATPOST MINIMUM/MAXIMUM INSERTION



Both the frame and seatpost have minimum insertion requirements. Additionally, the frame has a maximum insertion limit to prevent damage to the tire cutout area.

- MINIMUM INSERTION: The seatpost must be inserted into the frame deep enough so the minimum insertion/maximum extension (min/max) mark on the seatpost is not visible (A). The frame requires a minimum of 75 mm of insertion (B).
- If the post is at the minimum and the saddle is not at the desired position, the seatpost must be replaced with a longer or shorter seatpost.
- MAXIMUM INSERTION: The seat tube is reamed to a specified maximum insertion depth (C) which varies for each frame size. This ream depth limits the insertion depth of the seatpost. If the post is at

the maximum insertion and the saddle is not at the desired position, the seatpost must be replaced with a shorter seatpost.

• Once the saddle height is determined, torque the seat collar bolt to 55 in-lbf / 6.2 Nm.

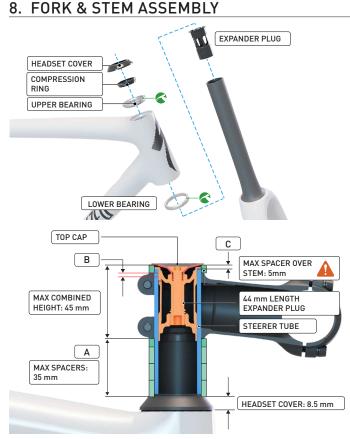
FRAME SIZE	44	49	52	54	56	58	61	64
Min insertion (mm)	75							
Max insertion (mm)				2	00			

WARNING! Do not apply grease to the contact surfaces between the seatpost and the seat tube. Grease reduces friction, which is critical to proper seatpost grip. Specialized recommends the application of carbon assembly compound [fiber paste], which can increase friction between carbon surfaces. Please visit your Specialized Authorized Retailer for additional information.



WARNING! Failure to follow the seatpost and frame insertion requirements may result in damage to the frame and/or seatpost, which could cause you to lose control and fall.

WARNING! For general instructions regarding the installation of the seatpost, refer to the appropriate section in the Owner's Manual. Riding with an improperly tightened seatpost can allow the saddle and seatpost to slide down, which can damage the frame and cause you to lose control and fall.



- Install the front end (fork, headset, headset spacers, stem, handlebar, wheels) on the frame then determine the rider's fit. Do not install more than 35 mm of spacers (A) between the stem and the headset cover.
- Trim the steerer tube so the final cut is 3 mm below the top of the stem
 (B) (or 3 mm below the top of the spacer (C) if a 5 mm spacer is used).
- Install the steerer tube expander plug into the steerer tube. Using a 6 mm hex bit, torque the plug to 45 in-lbf / 5.1 Nm.
- When installing the headset for the final assembly, grease the bearings and compression ring.
- Install the headset cover, spacers, and stem, followed by the top cap and bolt. Using a 4 mm Hex key, torque the bolt to 44 in-lbf / 5.0 Nm.
- Once the bike is fully assembled, adjust the headset using the front brake to determine if there's any headset looseness.
- The headset cover measures 8.5 mm thick. The maximum spacer stack height between the headset cover and the stem is 35 mm, for a total of 42 mm.
- The maximum combined height of the stem's steerer tube clamp and any spacers placed above the stem (max 5 mm) must not exceed 45 mm.

Make sure to determine the appropriate rider stem height before cutting the steerer tube. Ideally, the steerer tube should be cut 3 mm below the top of the stem. Alternatively, one optional 5 mm solid spacer may be placed above the stem. In that case, the steerer tube should be cut 3 mm below (C) the 5 mm solid spacer.

WARNING! The stem must be fully supported by the expander plug. Do not place more than one 5mm solid spacer above the stem. In addition, the combined height between the stem and optional 5 mm spacer (from the bottom of the stem to the top cap) must not exceed 45 mm. This is important if the originally equipped stem is changed with an aftermarket one. Exceeding 45 mm or placing more than one 5 mm solid spacer above the stem may cause the stem to crush the steerer tube which may result in serious injury or death. **WARNING!** The bicycle comes with one 5 mm solid spacer and 35 mm of scalloped spacers. Only the solid spacer should be used above the stem. The scalloped spacers should only be used below the stem, i.e., between the stem and the headset cover.

WARNING! Do not apply grease or carbon assembly compound (carbon paste) between the stem and the steerer tube, and do not twist the stem onto the steerer tube. This can result in damage to the composite surface, which may result in a catastrophic failure of the fork, resulting in serious personal injury or death.



9. REAR DERAILLEUR HANGER

All bicycle models are UDH (Universal Derailleur Hanger) compatible.



 Install the UDH hanger (A) into the frame dropout and rotate it forward until it's completely seated (B) in the hanger pocket or contacts the rotational stop tab.

1 The hanger must be completely seated in the hanger pocket or against the frame stop tab when tightened to the specified torque.

- Install the UDH washer (C), then thread the UDH bolt (D) through the washer and into the hanger.
- Using a reverse torque wrench and 8 mm hex bit, torque the bolt to 25 Nm / 221 in-lbf. The UDH bolt is left-hand threaded.



 Apply grease to the rear thru-axle (E) threads, then install the wheel, thru-axle, and conical washer. Using a torque wrench and 6 mm hex bit, torque the thru-axle to 15 Nm / 133 in-lbf.

WARNING! Before your first ride and regularly thereafter, ensure the thru-axle and UDH are torqued to specification, and that the UDH has not moved. Thru-axles and the UDH can loosen over time depending on the type and frequency of use. This is especially true if they were not installed correctly. Riding with a loose thru-axle or UDH can result in a loss of control of the bicycle and can cause you to fall.

10. GENERAL NOTES ABOUT MAINTENANCE

The Crux is a high-performance bicycle. All regular maintenance, troubleshooting, repair, and parts replacement must be performed by an Authorized Specialized Retailer. For general information regarding maintenance of your bicycle, please refer to the Owner's Manual. In addition, routinely perform a mechanical safety check before each ride, as described in the Owner's Manual.

- Great care should be taken to not damage carbon fiber or composite material. Any damage may result in a loss of structural integrity, which may result in a catastrophic failure. This damage may or may not be visible in inspection. Before each ride and after any crash, you should carefully inspect your bicycle for any fraying, gouging, scratches through the paint, chipping, bending, or any other signs of damage. Do not ride if your bicycle shows any of these signs. After any crash, and before you ride any further, take your bicycle to an Authorized Specialized Retailer for a complete inspection.
- While riding, listen for any creaks, as a creak can be a sign of a problem with one or more components. Periodically examine all surfaces in bright sunlight to check for any small hairline cracks or fatigue at stress points, such as welds, seams, holes, and points of contact with other parts. If you hear any creaks, see signs of excessive wear, discover any cracks, no matter how small, or any damage to the bicycle, immediately stop riding the bicycle and have it inspected by your Authorized Specialized Retailer.
- Lifespan and the type and frequency of maintenance depend on many factors, such as use, rider weight, riding conditions, and impacts.
- Exposure to harsh elements, especially salty air (such as riding near the ocean or in the winter), can result in galvanic corrosion of components such as the crank spindle and bolts, which can accelerate wear and shorten the lifespan. Dirt can also accelerate wear of surfaces and bearings. The surfaces of the bicycle should be cleaned before each ride. The bicycle should also be maintained regularly by an Authorized Specialized Retailer, which means it should be cleaned, lubricated, and

(partially) disassembled and inspected for signs of corrosion and/or cracks. If you notice any signs of corrosion or cracking on the frame or any component, the affected item must be replaced.

- Regularly clean and lubricate the drivetrain according to the drivetrain manufacturer's instructions.
- Do not use a high-pressure water spray directly on the bearings. Even water from a garden hose can penetrate bearing seals and crank interfaces, which can result in increased bearing and crank wear, which can affect the normal function of the bearings. Use a clean, damp cloth and bicycle cleaning agents for cleaning.
- Do **not** expose the bicycle to prolonged direct sunlight or excessive heat, such as inside a car parked in the sun or near a heat source such as a radiator.

WARNING! Failure to follow the instructions in this section may result in damage to the components on your bicycle and will void your warranty, but, most importantly, may result in serious personal injury or death. If your bicycle exhibits any signs of damage, do not use it and immediately bring it to your Authorized Specialized Retailer for inspection.

10.1. REPLACEMENT PARTS AND ACCESSORIES

Specialized replacement parts and accessories are available through your Authorized Specialized Retailer.



SPECIALIZED BICYCLE COMPONENTS 15130 Concord Circle, Morgan Hill, CA 95037 (408) 779-6229