



AIMA

2025 Dealer Workbook







SANTA MONICA

Ivory White



Metallic Blue



Matt Black

Frameset

Frame	Hydroformed Aluminum alloy frame, Integral Smooth Weld, Internal Cable Routing, Oversized Taper Headtube with integrated bearings, 84mm BSA, Replaceable forged alloy derailleur hanger, Integrated Brake lights & Blinkers
Fork	SR Suntour Mobie A32, 75mm travel, Locking Lever, Spring Preload Adjustment, Taper Steerer, 100x15mm Thru-Axle
Stem	Forged Alloy, Adjustable Angle, 1-1/8" Threadless, with Integrated Front Light Mount
Handlebar	City Handlebar, Riser, Ø31,8mm, Width: 680mm
Grips	Comfort, Retro Inspired
Seatpost	Alloy, Ø30.4mm Quick Release clamp
Saddle	Comfort Wide Retro Inspired Brown, Lifting Handle
Lights	Front: Semi-Integrated white driving light, 600 lumens Rear: Integrated Braking light & Blinkers
Accessories	Fenders, Rear Cargo Rack, Direct Mount Alloy Kickstand

Drivetrain

Shifters	Shimano Acera ST-M315, Rapidfire, 8 Speeds
Derailleur	Shimano Altus RD-M310, with Protecting Cage
Chainring	Direct Mount, Splined alloy spider, 52T
Cassette	Shimano HG, Megarange 11-34T
Chain	PYC, 1/2" x 3/32"
Pedals	Sure Grip Platform, Alloy, 9/16"
Brakes	Tektro HD-E3520, Hydraulic Disc Brakes, with Power cut-off sensor
Rotors	Stainless Steel TR-52 Anti Vibration 203mm 6-Bolt mount

More

Certification	UL 2849 Certified, Class 2 E-Bike, 500W, 32km/h max
Weight	64 lbs (29kg)
Max Payload	400 lbs. (180 kg)

Pedal Assist System

Motor	Bafang G0270 48V Custom Brushless Rear Hub, 500W, 73Nm Max Torque
Battery	Bafang BT-F440, 48V, 15A, Semi-Integrated, 720Wh Capacity Lithium-ion, LG cells, BMS, UL 2271 Certified
Controller	Bafang CR-C101 Sinewave FOC, AIMA Software
Display	Bafang DP C270, Smart Color Backlit LCD
Sensor	Bafang SR PA242 Torque Sensor, BSA 84x160mm
Throttle	On Demand Thumb Press Button
Controls	Left Side: Power / PAS level, Walk Mode Right Side: Turn Signal Lights / Horn, Lights Control
Charger	AIMA 3A Fast Charge (5h for complete charge)

Wheelset

Rims	27.5", 36H, MTB-grade Disc specific double wall
Hubs	Front: Alloy, 100x15mm Thru-Axle, 6-Bolt Rear: O.L.D. 148mm, Bolt-On, 6-Bolt
Spokes	12G Stainless Steel, Black
Tires	Chao Yang, 27.5 x 2.6", Retro Tan Wall, Reflective Side Strips, E-Bike Rated Casing

Geometry

Rider Compartment			Components	
Min. Saddle Height	770mm	820mm	Wheel Size	27.5x2.6"
Max. Saddle Height	958mm	1007mm	Crank Length	170mm
Handlebar Height	1150mm		Handlebar Width	680mm
Standover Height	399mm		Stem Length	90mm
Reach	422mm		Seat Post Length	300mm
Stack	655mm			
Frame				
Seat Tube Length	406mm	457mm		
Top Tube Length	635mm			
Head Tube Angle	67.5			
Seat Tube Angle	72			
Chainstay Length	495mm			
Wheelbase	1192mm			

Specifications are subject to change without notice. Most current and updated information is always available on AIMA E-Bikes Canadian website (www.aimamobility.ca) Listed weight may vary.



Matt Black



White

BIG SUR

Frameset

Frame	Hydroformed Aluminum alloy frame, Integral Smooth Weld, Internal Cable Routing, Integrated bearings, 100mm BSA, Replaceable forged alloy derailleur hanger
Fork	80mm travel Suspension Fork, Locking Lever, Spring Preload Adjustment
Stem	Forged Alloy, 1-1/8" Threadless
Handlebar	Alloy, Riser Handlebar, Ø31,8mm, Width: 680mm
Grips	Comfort Ergo, Bolt-On
Seatpost	Alloy, Ø30.4mm Quick Release clamp
Saddle	Comfort Wide, Lifting Handle
Lights	Front: Big Headlight, White, 100 LUX Rear: Semi-Integrated Red LED driving light
Accessories	Fenders, Rear Cargo Rack, Direct Mount Alloy Kickstand

Drivetrain

Shifters	Shimano Acera ST-M315, Rapidfire, 8 Speeds
Derailleur	Shimano Altus RD-M310, with Protecting Cage
Chainring	Direct Mount, Splined alloy spider, 52T
Cassette	Shimano HG, Megarange 11-34T
Chain	PYC, 1/2" x 3/32"
Pedals	Sure Grip Platform, Alloy, 9/16"
Brakes	Tektro HD-E3520, Hydraulic Disc Brakes, with Power cut-off sensor
Rotors	Stainless Steel TR-52 Anti Vibration 203mm 6-Bolt mount

More

Certification	UL 2849 Certified, Class 2 E-Bike, 500W, 32km/h max
Weight	82 lbs (37kg)
Max Payload	400 lbs. (180 kg)

Pedal Assist System

Motor	Bafang G062 48V Brushless Rear Hub, 500W, 80Nm Max Torque
Battery	Bafang BT-F400, 48V, 15A, Semi-Integrated, 720Wh Capacity Lithium-ion, LG cells, BMS, UL 2271 Certified
Controller	Bafang CR-C101 Sinewave FOC, AIMA Software
Display	Bafang DP C271 Smart Color Backlit LCD
Sensor	Bafang SR PA242 Torque Sensor, BSA 110x186mm
Throttle	On Demand Thumb Press Button, Horn, Lights Control
Controls	Power / PAS level , Walk Mode
Charger	AIMA 3A Fast Charge, (5h for complete charge)

Wheelset

Rims	26", 36H, Wide Profile, Alloy
Hubs	Front: Alloy, 135mm, 6-Bolt Rear: O.L.D. 175mm, Bolt-On, 6-Bolt
Spokes	12G Stainless Steel, Black
Tires	26 x 4.0", Retro Tan Wall, Reflective Side Strips, E-Bike Rated Casing

Geometry

Rider Compartment		Medium	Large
Min. Saddle Height	830mm		879mm
Max. Saddle Height	960mm		1011mm
Handlebar Height	1120mm		
Standover Height	467mm		
Reach	376mm		
Stack	682mm		

Components	
Wheel Size	26x4.0"
Crank Length	170mm
Handlebar Width	680mm
Stem Length	75mm
Seat Post Length	300mm

Frame		Medium	Large
Seat Tube Length	406mm		457mm
Top Tube Length	635mm		
Head Tube Angle	68°		
Seat Tube Angle	71°		
Chainstay Length	530mm		
Wheelbase	1201mm		

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Sea Breeze Blue



Matt Black



White

BIG SUR SPORT

Frameset

Frame	Hydroformed Aluminum alloy frame, Integral Smooth Weld, Internal Cable Routing, Integrated bearings, 100mm BSA, Replaceable forged alloy derailleur hanger
Fork	80mm travel Suspension Fork, Locking Lever, Spring Preload Adjustment
Stem	Forged Alloy, 1-1/8" Threadless
Handlebar	Alloy, High Riser Handlebar, Ø31,8mm, Width: 680mm
Grips	Comfort Ergo, Bolt-On
Seatpost	Alloy, Ø30.4mm Quick Release clamp
Saddle	Comfort Wide, Lifting Handle
Lights	Front: Big Headlight, White, 100 LUX Rear: Semi-Integrated Red LED driving light
Accessories	Fenders, Rear Cargo Rack, Direct Mount Alloy Kickstand

Drivetrain

Shifters	Shimano Acera ST-M315, Rapidfire, 8 Speeds
Derailleur	Shimano Altus RD-M310, with Protecting Cage
Chainring	Direct Mount, Splined alloy spider, 52T
Cassette	Shimano HG, Megarange 11-34T
Chain	PYC, 1/2" x 3/32"
Pedals	Sure Grip Platform, Alloy, 9/16"
Brakes	Tektro HD-E3520, Hydraulic Disc Brakes, with Power cut-off sensor
Rotors	Stainless Steel TR-52 Anti Vibration 203mm 6-Bolt mount

More

Certification	UL 2849 Certified, Class 2 E-Bike, 500W, 32km/h max
Weight	74 lbs (33.5kg)
Max Payload	400 lbs. (180 kg)

Pedal Assist System

Motor	Bafang G062 48V Brushless Rear Hub, 500W, 80Nm Max Torque
Battery	Bafang BT-F400, 48V, 15A, Semi-Integrated, 720Wh Capacity Lithium-ion, LG cells, BMS, UL 2271 Certified
Controller	Bafang CR-C101 Sinewave FOC, AIMA Software
Display	Bafang DP C271 Smart Color Backlit LCD
Sensor	Bafang SR PA242 Torque Sensor, BSA 110x186mm
Throttle	On Demand Thumb Press Button, Horn, Lights Control
Controls	Power / PAS level, Walk Mode
Charger	AIMA 3A Fast Charge, (5h for complete charge)

Wheelset

Rims	20", 36H, Wide Profile, Alloy
Hubs	Front: Alloy, 135mm, 6-Bolt Rear: O.L.D. 175mm, Bolt-On, 6-Bolt
Spokes	12G Stainless Steel, Black
Tires	20 x 4.0", Retro Tan Wall, Reflective Side Strips, E-Bike Rated Casing

Geometry

Rider Compartment		Components	
Min. Saddle Height	775mm	Wheel Size	20x4.0"
Max. Saddle Height	972mm	Crank Length	160mm
Handlebar Height	1150mm	Handlebar Width	720mm
Standover Height	432mm	Stem Length	50mm
Reach	439mm	Seat Post Length	300mm
Stack	563mm		
Frame			
Seat Tube Length	394mm		
Top Tube Length	610mm		
Head Tube Angle	68°		
Seat Tube Angle	71°		
Chainstay Length	450mm		
Wheelbase	1162mm		

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AIMA works in close collaboration with Bafang Electric, a manufacturer of E-Mobility systems renowned worldwide for their quality and reliability, to develop some of the best Pedal Assist Systems available on the market. Every component of the system is a genuine part, covered by warranty.



Powerful Brushless Motor

500W 48V brushless rear hub motor provides a powerful and comfortable ride thanks to its proprietary software providing power through 5 assist levels.



High Capacity 720Wh Battery

Allows to travel longer distances on a single charge. A more consistent power output improves the overall performance of the pedal assist system and extends the battery lifespan.



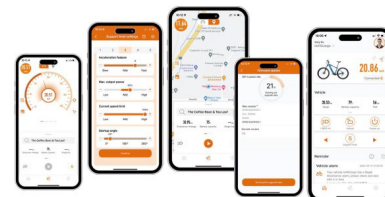
BESST Pro Diagnostic Tool

The Bafang BEEST Pro tool is an essential asset for e-bike dealers, offering advanced diagnostic and service capabilities. It allows dealers to efficiently troubleshoot and diagnose issues with Bafang-powered e-bikes, providing real-time data and in-depth analysis. With features like firmware updates, motor calibration, and system diagnostics, the BEEST Pro tool ensures quick, accurate repairs and maintenance, helping dealers deliver top-notch service to their customers. This tool empowers dealers to enhance their after-sales support, ensuring e-bikes are always performing at their best and minimizing downtime for riders.



CR C101 Sine Wave FOC Controller

Ensures the system's energy is used efficiently and provides smooth, controlled torque at variable speeds, which is especially beneficial for starting, stopping, and climbing hills. A quiet ride thanks to its state-of-the-art circuit board. Sine wave FOC also generates less noise and heat than other types of controllers.



Torque Sensor

Measures your power contribution in real time to provide only the right assistance level ensuring a natural riding experience and an efficient use of the battery energy.



Bafang GO App

The Bafang GO app is designed to enhance the e-bike user experience by offering seamless connectivity and control. With the app, riders can easily track their rides, monitor battery levels, adjust motor settings, and customize their e-bike's performance to suit their preferences. The Bafang GO app also provides valuable insights into ride data, helping users optimize their trips and improve efficiency. By staying connected to their e-bike, users can enjoy a more personalized and enjoyable riding experience, making every ride smoother, smarter, and more intuitive.



Large Intuitive Color Display

See your trip and system information in real-time. It features a USB charging port and Bluetooth connectivity.

Safety



The UL2849 certification is the industry benchmark for ensuring the safety of Pedal Assist Bicycles. This standard examines the compatibility of every component of the electric system and how they interact together, addressing the risks associated with electrical and fire safety.

univelo

Replacement Parts

We understand how crucial after-sales service when dealing with E-Bikes. That's why we prioritize stocking a wide range of replacement parts, ensuring that our dealers can quickly and efficiently address issues when they arise and get their customers back on the road as soon as possible.



UNIVELO PART #	DESCRIPTION	UNIVELO PART #	DESCRIPTION
WHEELSET		BRAKESET	
050001-01-20	WHEEL, REAR, WITH MOTOR & TIRE, FOR BIG SUR SPORT	190001-01-01	FRONT BRAKESET, FOR SANTA MONICA
050002-01-26	WHEEL, REAR, WITH MOTOR & TIRE, FOR BIG SUR	190001-02-01	REAR BRAKESET, FOR SANTA MONICA
050003-01-275	WHEEL, REAR, WITH MOTOR & TIRE, FOR SANTA MONICA	190002-01-01	FRONT BRAKESET, FOR BIG SUR
020001-01-275	TIRE, 27.5, FOR SANTA MONICA	190002-02-01	REAR BRAKESET, FOR BIG SUR
020002-01-26	TIRE, 26, FOR BIG SUR	190003-01-01	FRONT BRAKESET, FOR BIG SUR SPORT
020003-01-20	TIRE, 20, FOR BIG SUR SPORT	190003-02-01	REAR BRAKESET, FOR BIG SUR SPORT
030001-01-20	INNER TUBE, 20x4.0", 0.9MM THICK, SHRAEDER, FOR BIG SUR SPORT	DRIVETRAIN	
030002-01-26	INNER TUBE, 26x4.0", 0.9MM THICK, SHRAEDER, FOR BIG SUR	280001-01-01	DERAILLEUR HANGER FOR AIMA SANTA MONICA
030003-01-275	INNER TUBE, 27.5x2.6", 0.9MM THICK, SHRAEDER, FOR SANTA MONICA	280001-02-01	DERAILLEUR HANGER FOR AIMA BIG SUR / BIG SUR SPORT
030004-01-20	RIM TAPE, 20, FOR BIG SUR SPORT	360001-01-01	CHAINRING, FOR SANTA MONICA
030004-01-26	RIM TAPE, 26, FOR BIG SUR	360002-01-01	CHAINRING, FOR BIG SUR, BIG SUR SPORT
030004-01-275	RIM TAPE, 27.5, FOR SANTA MONICA	360003-01-01	CRANK ARM, LEFT, 170MM, FOR SANTA MONICA
070001-01-275	RIM, 27.5, FOR SANTA MONICA	360003-02-01	CRANK ARM, RIGHT, 170MM, FOR SANTA MONICA
070002-01-26	RIM, 26, FOR BIG SUR	360004-01-01	CRANK ARM, PAIR, 170MM, FOR BIG SUR
070003-01-20	RIM, 20, FOR BIG SUR SPORT	360005-01-01	CRANK ARM, PAIR, 160MM, FOR BIG SUR SPORT
140001-01-01	FRONT FENDER, FOR SANTA MONICA	POWER ASSIST SYSTEM	
140001-02-01	REAR FENDER, FOR SANTA MONICA	310005-01-01	FAST CHARGER, AIMA 48V, 3A
140001-03-01	FRONT FENDER BRACKET, FOR SANTA MONICA	670001-01-01	BATTERY, FOR SANTA MONICA, BAFANG, 48V, 15A, 720Wh
140001-04-01	REAR FENDER BRACKET, FOR SANTA MONICA	670002-01-01	BATTERY, FOR BIG SUR / BIG SUR SPORT, BAFANG, 48V, 15A, 720Wh
140002-01-01	FRONT FENDER, FOR BIG SUR	660001-01-01	DISPLAY, BAFANG DP C270.CAN, W/ CONTROL PAD, FOR SANTA MONICA
140002-02-01	REAR FENDER, FOR BIG SUR	660001-02-01	DISPLAY, BAFANG DP C271.CAN, 48V, W/ CONTROL PAD, FOR BIG SUR
140002-03-01	FRONT FENDER BRACKET, FOR BIG SUR	660001-03-01	DISPLAY, BAFANG DP C271.CAN, W/ CONTROL PAD, FOR BIG SUR SPORT
140002-04-01	REAR FENDER BRACKET, FOR BIG SUR	310001-01-01	CONTROLLER, BAFANG, FOR SANTA MONICA
140003-01-01	FRONT FENDER, FOR BIG SUR SPORT	310001-02-01	CONTROLLER, BAFANG, FOR BIG SUR
140003-02-01	REAR FENDER, FOR BIG SUR SPORT	310001-03-01	CONTROLLER, BAFANG, FOR BIG SUR SPORT
140003-03-01	FRONT FENDER BRACKET, FOR BIG SUR SPORT	310006-01-01	THROTTLE, RIGHT, FOR SANTA MONICA
140003-04-01	REAR FENDER BRACKET, FOR BIG SUR SPORT	310006-02-01	THROTTLE, RIGHT, FOR BIG SUR
140004-01-01	FRONT FENDER SUPPORT 90DEG M5, FOR AIMA	310006-03-01	THROTTLE, RIGHT, FOR BIG SUR SPORT
FRAMESET		390001-01-01	TORQUE SENSOR, 84X160MM, FOR SANTA MONICA
310008-01-01	FRONT LIGHT, FOR SANTA MONICA	390001-02-01	TORQUE SENSOR, 110X186MM, FOR BIG SUR / BIG SUR SPORT
310008-02-01	REAR LIGHT, LEFT, FOR SANTA MONICA	310002-01-01	KEYLOCK SET W/KEYS & BATTERY SUPPORT FOR AIMA SANTA MONICA
310008-03-01	REAR LIGHT, RIGHT, FOR SANTA MONICA	310002-02-01	KEYLOCK SET W/KEYS FOR BIG SUR / BIG SUR SPORT
310009-01-01	FRONT LIGHT, FOR BIG SUR, BIG SUR SPORT	310003-01-01	MOTOR CLUTCH ASSEMBLY FOR SANTA MONICA
310009-02-01	REAR LIGHT, FOR BIG SUR, BIG SUR SPORT	310003-02-01	MOTOR CLUTCH ASSEMBLY FOR BIG SUR / BIG SUR SPORT
310009-03-01	FRONT LIGHT BRACKET, FOR BIG SUR, BIG SUR SPORT	310004-01-01	MOTOR CORE ASSEMBLY FOR SANTA MONICA
150001-01-01	FRONT FORK, FOR SANTA MONICA	310004-02-01	MOTOR CORE ASSEMBLY FOR BIG SUR
150002-01-01	FRONT FORK, FOR BIG SUR	310004-03-01	MOTOR CORE ASSEMBLY FOR BIG SUR SPORT
150003-01-01	FRONT FORK, FOR BIG SUR SPORT	TOOLS	
160001-01-01	HEADSET, TAPER, FOR SANTA MONICA	910001-01-01	BAFANG BESST PRO DIAGNOSTIC TOOL
160002-01-01	HEADSET, STRAIGHT, FOR BIG SUR / BIG SUR SPORT		
170001-01-01	STEM, ADJUSTABLE, FOR SANTA MONICA		
170002-01-01	STEM, FOR BIG SUR SPORT		
180001-01-01	HANDLEBAR, FOR SANTA MONICA		
180002-01-01	HANDLEBAR, FOR BIG SUR SPORT		
560001-01-01	SADDLE, BROWN, FOR AIMA E-BIKES		
560001-02-01	SADDLE, BLACK, FOR AIMA E-BIKES		
680001-01-01	GRIP SET, BROWN, FOR SANTA MONICA		
680002-01-01	GRIP SET, BLACK ERGO, FOR AIMA E-BIKES		
700001-01-01	KICKSTAND, FOR SANTA MONICA		
700001-02-01	KICKSTAND, FOR BIG SUR		



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