

ENGLISH - USER MANUAL



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This manual was drafted in the English language (Original instructions) and may have been translated into other languages as applicable (translation of Original instructions).

SPECIALIZED BICYCLE COMPONENTS

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EN 15194

Please note all instructions and notices are subject to change and updates without notice.

Please visit www.specialized.com for periodic tech updates.

Feedback: techdocs@specialized.com

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1. INTRODUCTION

IMPORTANT:

This user manual is specific to your Specialized Turbo LEVO/KENEVO bicycle (LEVO/KENEVO) and should be read in addition to the Specialized Bicycle Owner's Manual ("Owner's Manual"). It 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 which 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.

Additional safety, performance and service information for specific components such as suspension or pedals 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.

ADDITIONAL LANGUAGES ARE AVAILABLE FOR DOWNLOAD AT www.specialized.com.

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 which, 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.



INFO: This symbol alerts the reader to information which is particularly important.



TECH TIP: Tech Tips are useful tips and tricks regarding installation and use.



GREASE: This symbol means that high quality grease should be applied as illustrated.



CARBON FRICTION PASTE: This symbol means that carbon friction paste should be applied as illustrated to increase friction.



TORQUE: This symbol highlights the correct torque value for a specific bolt. In order to achieve the specified torque value, a quality torque wrench must be used.

1.1. WARRANTY

A copy of the Specialized Limited Warranty Policy For Bicycles is provided with your bicycle, and is available from your Authorized Specialized Retailer. It is also available for download at <u>www.specialized.com</u>.

2. LEVO/KENEVO COMPONENTS



- 2. Down tube
- 3. Seat tube
- 4. Head tube
- 5. Chain stay
- 6. Seat stay
- 7. Fork
- 8. Rear shock (FSR models only)
- 9. Seat
- 10. Seatpost
- 11. Seatpost clamp
- 12. Cassette
- 13. Dropout
- 14. Rear derailleur
- 15. Chain
- 16. Chainring
- 17. Crank arm
- 18. Pedal
- 19. Motor

21. Shifter 22. Brake lever 23. Stem 24. Headset 25. Rechargeable Battery 26. Charging socket 27. Front brake caliper 28. Front brake rotor 29. Rear brake caliper 30. Rear brake rotor 31. Spoke 32. Tire 33. Rim 34. Hub 35. Valve 36. Thru-axle 37. Battery axle 38. Remote

3. GENERAL INFORMATION ABOUT YOUR LEVO/KENEVO

3.1. INTENDED USE

The LEVO FSR/KENEVO is intended and tested for All Mountain mountain biking (Condition 4) use only.

The LEVO HT is intended and tested for Cross Country mountain biking (Condition 3) use only.

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



Before using your LEVO/KENEVO bicycle, please inform yourself of all applicable legal requirements and regulations in your country or state. There may be restrictions on riding your LEVO/KENEVO bicycles on public roads, cycling paths, and/or trails. There may also be applicable helmet requirements, age restrictions or license or insurance requirements. Specialized does not, and will not, make any promise, representation, or warranty regarding the use of your LEVO/KENEVO bicycle. As laws and regulations regarding electric bicycles vary by country and/or state and are constantly changing, please make sure to obtain the latest information. You should also regularly see your Authorized Specialized Retailer for updated information.

CAUTION: All LEVO/KENEVO bicycles have a fixed pre-set speed limit at which the motor support will automatically shut off. Any (attempted) tampering with the power output and/or system is prohibited and will void the warranty.

3.2. PEDELEC / EPAC

Your **LEVO/KENEVO** is classified as a EPAC (Electrically Pedal Assisted Cycle, otherwise known as a Pedelec), and is referred to in this manual as a bicycle unless otherwise noted. Your motor support will automatically switch off when you reach a maximum speed of 25 km/h (15.5 mph) or 20 mph in the US/Canada. A driver's license or insurance is typically not required.

3.3. STARTING THE SYSTEM

- To start the system, press and hold the power button (fig.1) located on the the non-driveside of the battery, until the LEDs glow green. The number of LEDs that glow green will depend on the level of charge in the battery.
- To turn the battery (and support) off again, press and hold the power button until the LEDs turn off.



4. GENERAL NOTES ABOUT ASSEMBLY

This user manual is not intended as a comprehensive 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.



WARNING! Due to the complexity of the LEVO/KENEVO bicycle, proper assembly requires a high degree of mechanical expertise, skill, training and specialty tools. Therefore, it is essential for your safety that the assembly, maintenance and troubleshooting be performed by an Authorized Specialized Retailer. Before your first ride, make sure your components, such as brakes and drivetrain, are assembled and adjusted in accordance with the manufacturer's instructions and are functioning properly.



WARNING! Many components on the LEVO/KENEVO, including, but not limited to, the rear suspension and cable guides, are proprietary to the LEVO/KENEVO. Only use originally supplied components and hardware at all times. Use of other components or hardware will compromise the integrity and strength of the assembly. LEVO/KENEVO specific components should only be used on the LEVO/KENEVO and not on other bicycles, even if they fit. Failure to follow this warning could result in serious injury or death.



WARNING! Never modify your frame or bicycle in any way. Do not sand, drill, file or remove parts from your bicycle. Do not install incompatible components or hardware. Failure to follow this warning may result in serious personal injury or death.



WARNING! Electrical components can be exposed when working on your bicycle. Do not touch any part of the electrical system while under electric charge. Do not expose the connections of the battery and frame to water. If any live components or the battery are damaged, stop riding immediately and bring your bicycle to your Authorized Specialized Retailer.

4.1. SPEED SENSOR

When assembling the rear brake disc, the Speed Sensor Magnet must be installed on the rotor (fig.2). Four of the six bolts are standard rotor bolts. The remaining two bolts (M5 x 0.8 pitch x 15mm length, with countersunk flat head) attach the Speed Sensor Magnet to the rotor.



4.2. BOTTOM BRACKET

The bottom bracket is an integrated part of the motor, and does not require any pre-installation preparation.

4.3. HEADSET

- The headset uses a 11/8" (41.8mm x 30.5 x 8mm, 45x45°) Campagnolo Standard compatible upper bearing and a 1.5" (52mm x 40 x 7mm, 45x45°) lower bearing. Ensure that replacement bearings are compatible with the Specialized headset specification. No tools are needed for installation or removal of both bearings. Grease bearing surfaces before installation.
- Inspect the fork, stem, seatpost and seat tube, to ensure that there are no burrs or sharp edges. Remove any burrs or sharp edges using fine grit sandpaper.
- All edges of the stem in contact with the steerer tube should be rounded out to eliminate any stress points.



WARNING! Burrs and sharp edges can damage the carbon and alloy surfaces of the components. Any deep scratches or gouges in the stem or fork can weaken the components.

4.4. SEATPOST

- LEVO frames have a 30.9mm seatpost diameter and require that the seatpost have a tolerance of 30.78mm to 30.95mm.
- KENEVO frames have a 34.9mm seatpost diameter and require that the seatpost have a tolerance of 34.78mm to 34.95mm.

SEATPOST MINIMUM INSERTION:

To prevent damage to the frame and/or seatpost, it is important to have a minimum amount of seatpost insertion in the seat tube. This minimum insertion must meet the following requirements:

- 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 (fig.3 A).
- The seatpost must also be inserted into the seat tube deep enough to be visible through the sight hole (fig.3 B), or if no sight hole is present, the insertion must meet or exceed the minimum measured insertion depth (fig.3 B) required by the size of the frame (see below).
- If the seatpost and frame minimum insertion requirements differ from each other, always use the longer minimum insertion. For example, if the frame requires 70mm, but the seatpost requires 100mm, then 100mm is the minimum insertion required.



- SMALL / MEDIUM FRAME SIZE: Minimum insertion 70mm
- LARGE / X-LARGE FRAME SIZE: Minimum insertion 100mm

If the seatpost is at the min/max mark and the seatpost is not visible through the sight hole or does not meet or exceed the minimum measured insertion depth of the frame, the seatpost is not inserted deeply enough into the seat tube and should be lowered until it can be seen through the sight hole. This may result in the saddle being too low. If so, the seatpost must be replaced with a longer seatpost.



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

If the seatpost is cut short, the min/max mark on the seatpost may no longer be accurate. Before cutting the seatpost, note the min/max depth required by the seatpost manufacturer.



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 to turn or move and cause you to lose control and fall.

CAUTION: Inspect the seatpost and seat tube to ensure that there are no burrs or sharp edges. Remove any burrs or sharp edges using fine grit sandpaper.



CARBON FRAMES: Do not apply grease to the contact surfaces between the seatpost and the seat tube. Grease reduces the 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.

COMMAND POST IRcc / WU SEATPOSTS: When adjusting the position of the seatpost inside the seat tube, remove the battery to gain access to the internal housing, in order to guide the housing when moving the seatpost. Please refer to the seatpost user manual instruction guide for additional information.

4.5. REPLACEMENT PARTS AND ACCESSORIES

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

5. GENERAL NOTES ABOUT RIDING

The LEVO/KENEVO motor provides pedal assistance only while you are pedaling and the bicycle is in motion. The amount of pedal assistance will be higher or lower depending on the amount of force applied to the pedals. If you stop pedaling, the motor will stop providing any assistance.

TheLEVO/KENEVO bicycle can also be ridden as a normal bicycle without motor assistance by switching the display to the OFF mode. The same applies if the battery charge drops below 1%.

The LEVO/KENEVO bicycle has a walk-assist mode (the motor engages without pedal force being applied) which is designed to provide assistance when walking the bicycle up a hill, up to a speed of 6 km/h (3.7 mph), so long as the + button is pressed down.

5.1. RIDING TIPS

Because of the electric motor assist, the LEVO/KENEVO offers a unique ride compared to a bicycle without motor assist. Below are some riding tips which may also reduce component wear and increase battery range:

- Pay attention to your speed going into a corner and be sure to stop pedaling well before entering the corner. Otherwise you may carry too much speed as you enter the corner.
- Ride efficiently and look ahead. Any time braking force is applied, more energy is needed to get the bicycle back up to speed.
- Shift gears regularly to stay in an optimal cadence range and downshift before coming to a stop.
- Reduce pedal force before initiating a gear shift to reduce drivetrain wear.
- Check the tire pressure regularly. Low pressure can cause the tires to roll inefficiently.
- If your bicycle is exposed to cooler weather, keep the battery stored indoors until just before riding.
- Do not expose your bicycle to prolonged excessive heat (e.g. direct sunlight).
- Only carry the cargo you need. More cargo weight requires more energy to move.



WARNING! The motor support is activated as soon as you step onto the pedals and the bicycle is in motion. You should be seated on the bicycle and engage at least one brake before starting to pedal. Do not put one foot on a pedal and throw a leg over the bicycle, as it could accelerate unexpectedly. Failure to follow this warning may result in serious personal injury or even death.



WARNING! Since the motor support allows for greater speeds and acceleration, you should pay particular attention to terrain conditions, other riders, pedestrians, and/or cars when riding. You may approach obstacles much faster than expected.



WARNING! The acceleration of an electric bicycle can be faster than anticipated and may feel unusual at first. Before your first ride, you should use the lowest power ECO mode and become familiar with the operation of the electric bicycle by practicing starting and stopping, cornering and navigating obstacles in a safe environment away from other bicycles, pedestrians and/or vehicles. Due to the greater acceleration of an electric bicycle, you should also pay particular attention to terrain conditions as you may approach obstacles faster than expected. Please note the default motor support mode upon startup is always TURBO mode.



For technical climbing and navigating through obstacles such as tight switchbacks or rock gardens, use the brakes to modulate the motor output and control your acceleration/speed.



CAUTION: The weight of your LEVO/KENEVO is significantly higher than a bicycle without motor support. Use caution when handling the bicycle (including, but not limited to parking, lifting, pushing, loading it into a car or onto a bicycle carrier and unloading it).

CAUTION: Do not ride your LEVO/KENEVO without the battery installed. Riding without a battery may damage exposed electrical components.

5.2. BEFORE YOUR FIRST RIDE

Regardless of your experience level, you should read the "FIRST" section of your Owner's Manual (Bike Fit, Safety First, Mechanical Safety Check and First Ride) and carry out all important safety checks. In addition, make sure you are familiar with the following areas of the bicycle that are specific to electric bicycles.

BEFORE EVERY RIDE

- Battery
 - Are all connections plugged in correctly?
 - Do you have sufficient battery charge?
 - Is the battery properly inserted and locked in the frame?

BEFORE YOUR FIRST RIDE

- Battery
 - Is the battery fully charged?
- Remote
 - Are you familiar with the function of the buttons on the remote?
 - Do you know how to use the remote to change the motor support level from ECO to SPORT to TURBO?



WARNING! If your battery, charger or other component exhibits any signs of damage, do not use the bicycle and immediately bring it to your Authorized Specialized Retailer for inspection.

5.3. RIDING WITH KIDS

There are many different setups that allow you to ride with kids. Please look at the Riding Safely section in the Owner's Manual regarding general information and instructions on child carriers or trailers.

If you regularly ride with kids on your bicycle, your Authorized Specialized Retailer should conduct a periodic safety inspection.



WARNING! Specialized bicycles are only designed and tested for use by one person at a time. Carrying a child on your Specialized bicycle is at your own risk. If you choose to install an accessory on your Specialized bicycle such as a trailer, carrier, or trailer cycle, make sure it is compatible and refer to the manufacturer's instructions and your Authorized Specialized Retailer. You should make sure your bicycle is still safe to ride with the accessory installed. Be sure to not exceed the structural weight limit of the bicycle if you use a trailer, trailer cycle or child carrier. Also make sure not to exceed the maximum cargo weight if you use a child carrier.



WARNING! Riding with kids on your bicycle will affect the handling by altering the center of gravity, weight and balance. It may also negatively impact your cornering ability, increase your stopping distance and reduce your ability to slow down and maneuver, especially at higher speeds or down a steep grade. All of this can result in a loss of control, potentially causing serious injury and/or death. You should also become familiar with and practice riding with the accessory in a controlled environment away from traffic.



WARNING! Do not attach a child carrier, trailer or similar accessory to a composite or carbon fiber part or component, either directly or indirectly. For example, do not attach a trailer to a rear axle when the rear triangle is made of composite or carbon fiber. Likewise, do not attach a trailer cycle bicycle to a composite or carbon seatpost or a child carrier to a composite or carbon fork. Either may potentially apply unusual forces on your bicycle frame or component which could result in damage and cause a complete failure, with the risk of serious injury or death. If you have previously attached an accessory to a composite or carbon fiber part or component, do not ride until you have had your Authorized Specialized Retailer conduct a careful safety inspection.



Before riding with kids on your bicycle, please inform yourself of all applicable legal requirements and regulations in your country and state. There may be restrictions on riding your bicycle with certain or any accessory(ies). This is especially true for electric and pedal-assist bicycles.

6. GENERAL NOTES ABOUT MAINTENANCE

The LEVO/KENEVO 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 depends on many factors, such as use, rider weight, riding conditions and/or impacts. Additionally, the LEVO/KENEVO uses a power-assisted drive system, which means more distance is covered in the same amount of time. Components may be subject to increased wear at different rates, depending on the component. Drivetrain and brake components are especially subject to wear. Periodically have your Authorized Specialized Retailer inspect your bicycle and components.
- 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, inspected for signs of corrosion and/or cracks and lubricated. 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, increasing bearing and crank wear. Use a clean, damp cloth and bicycle cleaning agents for cleaning.
- Do <u>not</u> 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.



WARNING! When placing the frame and/or bicycle in a repair stand, clamp the stand to the seatpost and not the frame. Clamping the frame can cause damage to the frame that may or may not be visible, and you may lose control and fall.



WARNING! Always turn off the battery when not in use and/or when working on it.

CAUTION: Do not open the motor assembly. The motor assembly is a sealed maintenance-free system. Any work on the motor assembly must be performed by a Specialized Service Center.



Your bicycle should be inspected and serviced by your Authorized Specialized Retailer on a regular basis, depending on use. The first inspection should be performed within 200 km / 120 miles. See detailed service schedule on page 23.

7. SYSTEM INTERFACE

7.1. HANDLEBAR REMOTE

The handlebar remote is included on all LEVO/KENEVO models (fig.4) and controls the level of motor support.



- TURBO BOOST BUTTON: Automatically changes to TURBO mode regardless of the mode the bike is in.
- + BUTTON: Increases the amount of support.
- **BUTTON:** Decreases the amount of support.
- WALK-ASSIST BUTTON: Pressing and holding activates the walk-assist mode. This provides motor assist at 3.7 mph / 6 km/h to help push the bike up hills when walking.

7.2. SUPPORT MODES

The LEVO/KENEVO motor support is available in three different drive settings - TURBO, TRAIL and ECO.

- **TURBO MODE:** The motor, while pedaling, provides maximum (100%) support.
- TRAIL MODE: The motor, while pedaling, provides 50% support (default).
- ECO MODE: The motor, while pedaling, provides 20% (default).

The various modes (TURBO, TRAIL and ECO) are managed using the +/- buttons on the Trail Display, located on the side of the battery (fig.5) or on the remote (fig.4). In addition, the drive system can be controlled through a variety of devices (Mission Control App or select LEV-supported computers) by being able to access additional control features.



To switch into a different support mode, press the + or - button on the battery, app or computer. After reaching the strongest or weakest mode, the system will not continue to switch. To reduce from TURBO to TRAIL to ECO, you have to press the - button. To increase from ECO to TRAIL to TURBO, you have to press the + button.



The support modes affect how much support the motor delivers based on your pedaling input. Generally, more support provides faster acceleration and easier climbing at the expense of shorter range and greater chance of wheelspin. Lower power modes that provide less support result in longer battery run times, longer range, and more control in situations where traction is limited. Specialized recommends experimenting with the power settings that work best for your riding style and conditions.

The level of motor support in TURBO, TRAIL and ECO modes can be customized for your individual needs. Using the Mission Control App or with help from your local Authorized Specialized Retailer, you can adjust the ECO and TRAIL modes to provide between 10% and 70% of motor support.

7.3. CONNECTIVITY OPTIONS

The motor support system provides a high degree of interface flexibility, through Bluetooth and/or ANT+ connectivity. Depending on the device and the connectivity option, a variety of features can be accessed.

BLUETOOTH LE:

The Mission Control App (iOS or Android) provides an enhanced ride experience by recording rides while syncing with Strava, eliminating "range anxiety" with the Smart Control function, GPS-based navigation, and system diagnostics. Android and iOS devices can sync to all LEVO/KENEVO bicycles via Bluetooth LE. Visit Google Play or the Apple App Store for the latest version of the free Mission Control App. All Mission Control functionality instructions can be found within the App itself.

ANT+:

The ANT+ Protocol offers a range of devices that sync with the LEVO/KENEVO bicycles.

- The LEV (Light Electric Vehicle) profile allows visibility of additional types of data, including cadence, rider power output, motor temperature, battery temperature, battery State of Charge, and speed while also allowing some support mode control. For an up-to-date list of LEV compatible ANT+ devices go to https://www.thisisant.com/directory/filter/-/-/200/.
- The "Fake Channel" option displays the battery State of Charge on any ANT+ cycling device that has an unused Power, Heart rate, or Cadence channel. The Mission Control App must be used to select this option.

8. BATTERY / CHARGER

Your bicycle is powered by a Lithium-Ion (Li-Ion) battery. Always adhere to the following instructions when handling or charging the battery or when using the LEVO/KENEVO bicycle:

- Only operate the battery between the temperature range of -20° C (-4° F) and +70° C (+158° F).
- Only use the LEVO/KENEVO battery with the LEVO/KENEVO bicycle. Do not use the LEVO/KENEVO battery with any other bicycle or any other battery with the LEVO/KENEVO bicycle, even if it fits.
- Always turn the battery off before connecting or disconnecting the wiring harness or charger to or from the battery.
- Turn off the battery, unplug the charger from the battery and remove the battery from the bicycle before performing work of any kind, such as installation, maintenance, cleaning and/or repair. When transporting or handling the battery separately from the bicycle, ensure the battery is OFF. Touching the contacts when the battery is ON can result in electric shock and/or injury.
- Before riding the bicycle, make sure the battery is properly secured in the frame.

8.1. OBSERVE AND OBEY

- Do not modify, open or disassemble the battery or charger. Modification or disassembly may result in a short circuit, fire or malfunction.
- The battery is very heavy. Be careful when handling it and do not drop it.
- Do not allow any nails, screws or other small, sharp and/or metallic objects to come in contact with the battery or the battery's charging socket.
- Do not allow the battery to overheat. Protect the battery from excessive sun exposure.
- Do not expose the battery to an open fire or radiator heat.
- Do not submerge the battery in water.
- Keep the battery away from metal objects as that can cause a short-circuit.
- Do not use a battery that shows any signs of damage to the casing or charging port, or is leaking any fluids. Battery liquid can cause skin irritation and burns. In the event of damage that results in skin or eye contact with any liquid from the battery, immediately flush with water and seek medical assistance.



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

8.2. CHARGING AND USING THE BATTERY

- Regularly inspect the battery and charger for damage. Never charge a battery which you suspect is damaged or know is broken, and do not use it.
- Make sure the charging socket and plug are dry before connecting and charging the battery.
- Only use the Specialized charger supplied with the bicycle or other chargers approved by Specialized. Inspect the charger before every use for possible damage to the charger itself, the cable or the charging plug. Never use a charger which you suspect is damaged or know is broken.
- Place the charger on a stable, level surface unaffected by heat. If the battery is charged outside of the frame, place the battery on the same surface as the charger.
- You should charge the battery in a dry, well ventilated area and make sure the battery and charger are uncovered during the charging process. Ensure that the battery and charger are not exposed to any flammable or dangerous substances.

ENGLISH

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



The battery can be charged whether installed in the bicycle or not. Refer to the appropriate instructions regarding removing and installing the battery. Only charge the battery at an ambient temperature between 0° C and +50° C (+32° F and +122° F). If outside temperatures are too hot or too cold, charge the battery inside. For safety reasons, if the battery is too hot, it will not charge.



- Plug the charger's plug into an outlet (100 240V), using the appropriate plug for the country's standards.
- Uncover the charging socket on the battery, then connect the charging plug with the charging socket on the battery (fig.6). You should charge the battery in an area with a smoke detector.
- When charging is complete, disconnect the charging plug from the battery socket.
- Unplug the charger from the wall socket.



During the charging process, the diode on the charger will glow red (fig.7). When the battery is fully charged, the diode on the charger will turn green.

CAUTION: If the red LED flashes during the charging process, a charging error has occurred. In that case, immediately remove the charger from the socket, discontinue use of the motor support and contact your Authorized Specialized Retailer.

6

The Battery Management System (BMS) is designed to protect a fully discharged battery from damage for a period of time. However, in order to maintain the best possible battery performance and lifespan, Specialized recommends regularly recharging the battery to at least ³/₄ full (7 LEDs).

Please note that Li-ion batteries gradually lose capacity depending on age and use. Strongly reduced operating time after charging can be a sign that the battery is reaching the end of its useful life and has to be replaced. Provided the bicycle has been used properly, approximately 75% of the battery's original capacity should remain after 300 charging cycles or two years. Replacement batteries can be purchased from your Authorized Specialized Retailer.

8.3. CHARGE LEVEL DISPLAY

The charge level of the battery is permanently displayed during your ride. The number of LEDs glowing will indicate the remaining battery charge. When the battery charge reaches 20%, the last two LEDs will glow red (fig.8).

At 10% battery charge remaining, the system will start to reduce the amount of support. At 1%, the system switches off the motor support.

If your bicycle is at a standstill for at leasy 10 minutes, the BMS will switch the system off. In order to continue riding with support, you have to switch the system on again.





- **Fig.9:** Ensure that the rubber double-lobe cam is facing the right direction.
- **Fig.12:** Slide the battery down into the frame anchor.
- Fig.11: Rotate the battery up into the down tube, then insert the battery axle. Torque the axle to 88.5 in-lbf (10 Nm).

8.5. CHARGING THE BATTERY IN THE FRAME

WARNING! Place the charger on a stable, level surface unaffected by heat. You should charge the battery in a dry, well ventilated area and make sure the charger is uncovered during the charging process. Ensure that the battery and charger are not exposed to any flammable or dangerous substances. Plug the charger's plug into an outlet (100 - 240V), using the appropriate plug for the country's standards, then connect the charging plug with the charging pocket on the battery. Specialized recommends charging the battery in an area with a smoke detector.



Fig.10: Locate the charging socket on the non-drive-side of the battery, near the bottom bracket.

8.6. CHARGING THE BATTERY OUT OF THE FRAME

WARNING! Place the charger and the battery on a stable, level surface unaffected by heat. You should charge the battery in a dry, well ventilated area and make sure the battery and charger are uncovered during the charging process. Ensure that the battery and charger are not exposed to any flammable or dangerous substances. Plug the charger's plug into an outlet (100 - 240V), using the appropriate plug for the country's standards, then connect the charging plug with the charging socket on the battery. Specialized recommends charging the battery in an area with a smoke detector.



- **Fig.11:** Turn off the battery and unplug the wiring harness before removing the battery from the frame!
- **Fig.11:** While holding the battery, unthread the axle using a 6mm Allen key.
- **Fig.11:** Allow the front of the battery to drop out of the frame, pivoting at the base.



Fig.12: Pull the battery up from the anchor at the base, then pull the battery completely from the frame.

8.7. CLEANING

Always turn the battery off and remove the charger from the battery before cleaning the bicycle. Remove the battery from the bicycle before cleaning the battery.

Always unplug the charger from the battery and the wall socket before cleaning.



CAUTION: Never use a high-pressure cleaner when cleaning your LEVO/KENEVO. Instead, use a dry or slightly damp cloth. Please ensure no water comes into contact with the electrical components while washing. Ask your Authorized Specialized Retailer for additional information about cleaning your bicycle.



CAUTION: Do not use alcohol, solvents or abrasive cleaners to clean the charger or battery. Instead, use a dry or slightly damp cloth.

8.8. STORAGE

CAUTION: If the battery is not being used for an extended period of time, remove the battery from the frame and store it in a dry, well ventilated area and leave it uncovered. Only store the battery at an ambient temperature between -20° C and +35° C (-4° F and +95° F). If outside temperatures are too hot or too cold, store the battery inside.



CAUTION: If the battery is stored and not in use for extended periods of time, be sure to charge the battery at least every three months so at least 4 LEDs (30-39%) are glowing green. If the battery is not charged over a period longer than three months, it can cause damage to the battery.



Do not leave the battery connected to the charger for extended periods after the battery is charged.

8.9. TRANSPORT



Transporting and/or shipping your LEVO/KENEVO battery may be subject to certain restrictions and may require special handling, labelling, and/or packaging. Be sure to inform yourself beforehand of all applicable legal requirements and regulations in your country or state. Your Authorized Specialized Retailer may also have helpful information available. When carrying the battery outside the frame, Specialized recommends using an approved battery transport box.



8.10. DISPOSAL



Batteries and chargers must not be disposed of in your household trash! All batteries and chargers must be disposed of in an environmentally friendly manner, in accordance with the battery disposal regulations in your country or state. Ask your Authorized Specialized Retailer for information about how to dispose of a battery or charger and any applicable take-back program.

8.11. BATTERY TECHNICAL DATA							
DESCRIPTION	UNIT		SPECIFICATION				
OPERATING VOLTAGE	VOLT	36					
	°C		0 - +50				
	°F		+32 - +122				
	С°		-20 - +70				
	°F		-4 - +158				
	С°	< +35					
STONAUL TEMPENATURE	°F	< +95					
DEGREE OF PROTECTION			IP67				
	KG		2.8				
	LB		6.2				
BATTERY		SBC-B06	SBC-B07	SBC-B08			
RATED CAPACITY		11.5AH	12.5AH	14AH			
ENERGY		420WH 460WH 504WH					
CHARGER		SBC-C04					
CHARGE TIME (SBC-C04)		3:15H	3:30H	3:50H			
CHARGE TIME (SBC-C05)		6:30H	7:00H	7:40H			

8.12. CHARGER TECHNICAL DATA

DESCRIPTION	UNIT	SPECIFICATION				
CHARGER MODEL NUMBER		SBC-C04	SBC-C05			
	С°	-10 - +40	0 - +40			
CHARGING TEMPERATURE	°F	14 - +104	+32 - +104			
	°C	-20 - +65	-20 - +60			
STURAGE TEMPERATURE	°F	-4 - +149	-4 - +140			
OPERATING VOLTAGE	V	42	42			
AC INPUT VOLTAGE	V	100 - 240	100 - 240			
FREQUENCY	Hz	50 / 60	50 / 60			
MAX CHARGE CURRENT	Α	4	2			
DIMENSIONS	mm	179 X 80 X 37.2	147 X 65.5 X 34.2			

The range of the battery can vary considerably depending on the model/capacity of the battery and riding conditions, such as the gradient of your route and the support mode. See "GENERAL NOTES ABOUT RIDING" on page 6 for additional information about battery range and tips on maximizing range.





9. AUTOSAG AIR SHOCK SETUP

LEVO FSR bicycles are equipped with AUTOSAG, a unique new feature designed to simplify and speed up the adjustment of air pressure. The AUTOSAG feature automatically determines the correct amount of sag, and eliminates the need to refer to an air chart to determine the correct pressure based on rider weight. However, the shock still requires compression and rebound adjustment based on type of terrain and rider weight. Once the air pressure is set, please refer to the compression settings (page 18) and the rebound chart (page 18).



Air pressures, rebound and compression settings are suggested starting point recommendations only. They should be adjusted according to the rider's needs for each type of terrain to achieve optimal performance. Shock air pressure can be set up manually to rider preference instead of using AUTOSAG if desired.

9.1. STEP 1: SETTING AUTOSAG

- Adjust the seat height.
- Set the fork pressure approximately to the desired sag.
- Fig.13: Position the shock compression lever or knob (blue) to the full open or off position (1). Remove the positive air valve cap (2) (black).
- Attach a high-pressure shock pump to the positive air valve.
- Inflate to the rider's weight in pounds (lb) plus 50psi. For kilograms, multiply by three (e.g. 75kg = 225psi).



CAUTION: Do not exceed 350psi before activating the Autosag valve (this is a starting pressure only). After the Autosag is activated, 300 psi is the recommended maximum working pressure when riding.



- Make sure you are wearing all gear that would normally be worn on a ride (shoes, helmet, hydration pack if used, etc.). Mount the bicycle, prop up against a wall, and sit in the saddle in a normal riding position. Do not set sag while riding.
- Unthread then press the grey AUTOSAG valve ③. The pressure will decrease until the suspension settles into its pre-adjusted sag point. Once the Autosag valve is no longer releasing pressure, let go of the Autosag valve.
- Cycle the shock a few times to fill the negative air chamber again (4), then dismount the bicycle.
- Do not depress the AUTOSAG valve again, otherwise the proper sag setting will be lost, and will require this procedure to be repeated from step #2.
- Tighten the positive air valve cap.
- Verify the fork sag and adjust again if necessary to complete the bike setup.



Rider weight in pounds (lb) plus the PSI (depending on model as described above) is the lowest amount of pressure that should be in the shock before activating AUTOSAG. If the air pressure is too low, the AUTOSAG button may let air out of the negative chamber, which would result in incorrect sag.



Sag is measured as the distance between the o-ring and the shock body's seal, after the rider's weight has been applied to the bike, with no bounce. When AUTOSAG is correctly set, sag should measure approximately 20-30% of stroke, depending on riding/terrain experience. If the rider is approaching 300lbs, AUTOSAG may not function, and sag may exceed the bike's prescribed amount.

9.2. STEP 2: ADJUSTING COMPRESSION

RockShox Monarch: RT and RT3 shocks are equipped with a lever for on-the-fly adjustments of the shock performance under significant changes in terrain, and is intended to be adjusted throughout the ride.

- OPEN (RT & RT3): Optimized for the perfect balance of control and plushness for steep, aggressive descents.
- PEDAL (RT & RT3): Moderate for an optimal blend of pedaling efficiency and bicycle control on variable terrain.
- **LOCK (RT3):** The firmest setting for maximum pedaling efficiency.

9.3. STEP 3: ADJUSTING REBOUND

RockShox Monarch RT / RT3: Refer to the rebound chart to set the rebound damping. Rebound damping controls the rate at which the shock returns after it has been compressed.

- Clockwise for slower rebound (slow speed, bigger hits).
- Counter-clockwise for faster rebound (higher speeds, small bumps, more traction).

RIDER	WEIGHT	CLICKS		
LBS	KG	RS MONARCH RT3/RT 650b	RS MONARCH RT3/RT 29	
90 - 130	41 - 60	7 - 10	8 - 11	
140 - 190	64 - 86	5-7	6 - 8	
200 - 250	91 - 113	3 - 5	4 - 6	
260 - 280	118 - 127	1-3	2 - 4	

10. OHLINS TTX22 COIL SHOCK

Ohlins TTX22 Coil: Please refer to the Ohlins TTX22 Coil Owner's Manual for rebound instructions.

SMALL	MEDIUM	LARGE	X-LARGE				
72N/mm (411 lbs/in)	80N/mm (457 lbs/in)	88N/mm (502 lbs/in)	96N/mm (548 lbs/in)				
Additional spring rates are available through your Authorized Specialized Retailer.							

68N/mm // 388 lbs/in	80N/mm // 457 lbs/in	92N/mm // 525 lbs/in	106N/mm //605 lbs/in
72N/mm // 411 lbs/in	84N/mm // 480 lbs/in	96N/mm // 548 lbs/in	
76N/mm // 434 lbs/in	88N/mm // 502 lbs/in	100N/mm // 571 lbs/in	

11. SETUP DATA

		Image: selection of the selection

12. SPECIFICATIONS

12.1. FRAME LINKAGE ASSEMBLY

Specialized recommends following a specific order when assembling the rear triangle pivot locations of FSR suspension bicycle models (fig.14). Assembling the upper or lower pivots of the seatstay as a last step before installing the rear shock makes it easier to align the parts and hold the washers in place.



12.2. FORK TRAVEL

WARNING! Specialized frames are compatible ONLY with forks that have a specific maximum amount of travel (see table below). Use of different styled forks or forks with longer travel may result in catastrophic failure of the frame which may result in serious personal injury or death.

MODEL	WHEEL Size	FORK TRAVEL	MODEL	wheel Size	FORK TRAVEL
LEVO FSR 6FATTIE	27.5"	150MM	HARDTAIL 29 (SM)	29"	100MM
LEVO FSR CARBON 6FATTIE	27.5"	150MM	HARDTAIL 29 (MD/LG/XL)	29"	120MM
LEVO FSR ST	29"	120MM	HARDTAIL 6FATTIE (SM)	27.5"	100MM
LEVO FSR ST 6FATTIE	27.5"	120MM	HARDTAIL 6FATTIE (MD/ LG/XL)	27.5"	120MM
KENEVO FSR 6FATTIE	27.5"	180MM			

12.3. BOLT SIZE / TORQUE SPECS

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. The following is a summary of torque specifications in this guide:

TORQUE SPECS (LEVO FSR PIVOTS)*:

PIVOT LOCATION	IN-LBF	Nm	PIVOT LOCATION	IN-LBF	Nm
MAIN (CARBON FRAME)	200	22.5	S-LINK @ SEATSTAY	130	14.7
MAIN (ALLOY FRAME)	182	20.5	S-LINK @ SHOCK EXTENSION	148	16.7
DROPOUT	113	12.8	LOWER SHOCK MOUNT	175	19.8
S-LINK @ FRAME	96	10.8	UPPER SHOCK EYE	113	12.8

TORQUE SPECS (KENEVO FSR PIVOTS)*:

PIVOT LOCATION	IN-LBF	Nm	PIVOT LOCATION	IN-LBF	Nm
MAIN	182	20.5	S-LINK @ SHOCK EXTENSION	204	23
DROPOUT	204	23	LOWER SHOCK MOUNT	156	18
S-LINK @ FRAME	204	23	UPPER SHOCK EYE	156	18
S-LINK @ SEATSTAY	204	23			

* Apply blue loctite to chainring bolts.

TORQUE SPECS (GENERAL LOCATIONS):

LOCATION	IN-LBF	Nm	LOCATION	IN-LBF	Nm
SEAT COLLAR (30.9 POST)	45	5.1	SPIDER LOCKRING	443	50
SEAT COLLAR (34.9 POST)	55	6.2	DERAILLEUR HANGER	35	4
SEATPOST @ SADDLE	120	13.5	WATER BOTTLE BOLTS	25	2.8
STEM @ STEERER TUBE	45	5.1	REAR BRAKE GUIDES	6	0.7
STEM @ HANDLEBAR	45	5.1	BATTERY AXLE	88.5	10
CRANK BOLTS	443	50	REAR AXLE	133	15
CHAINRING BOLTS	89	10*			

TORQUE SPECS (MOTOR MOUNTS):

LOCATION	IN-LBF	Nm
LEVO/KENEVO ALLOY (ALL)	200	22.5
LEVO CARBON MAIN PIVOT	200	22.5
LEVO CARBON FORWARD	133	15
LEVO CARBON UPPER	133	15
LEVO CARBON LOWER	200	22.5



CAUTION: Ensure all contact surfaces are clean and bolt threads are greased or have a threadlocking compound prior to installation.

12.4. FRAME SPECIFICATIONS

ITEM	SPECIFICATION
HEADSET	11/8" UPPER / 1.5" LOWER
SEAT COLLAR DIAMETER (LEVO)	34.9MM
SEAT COLLAR DIAMETER (KENEVO)	38.6MM
SEATPOST DIAMETER (LEVO)	30.9MM
SEATPOST DIAMETER (KENEVO)	34.9MM
DERAILLEUR HANGER	S172600003 (AMAZINGER 2.1)
REAR HUB	148MM X 12MM
FRONT HUB	110MM X 15MM

12.5. RECOMMENDED TIRE PRESSURES

Proper tire pressure is critical for optimal performance. Tires with higher pressure will typically roll faster and provide less rolling resistance, but provide less traction. Tires with lower pressure will typically provide increased traction and control at the expense of rolling resistance. Too little pressure will increase the risk of rim damage and potential for "burped" tires (releasing air when used as tubeless).

Experiment with different tire pressures in different conditions to find what works best for you when riding your preferred terrain.

With the increased volume of 6Fattie tires it is much more difficult to determine pressure by squeezing the tire. Use a quality pressure gauge instead and refer to the tire pressure recommendations written on the side of the tires.



Because of the extra weight of the LEVO/KENEVO bicycle, tire pressure should generally be higher compared to a regular bicycle with 6Fattie tires, such as a Stumpjumper or Rhyme 6Fattie FSR.

13. EC - DECLARATION OF CONFORMITY

((

The manufacturer:

Specialized Bicycle Components Inc. 15130 Concord Circle Morgan Hill, CA 95037, USA Tel: +1 408 779-6229

hereby confirms for the following products:

Product description:

EPAC (Electrically Pedal Assisted Cycle)

Model designation:

- Levo FSR 6Fattie
- Levo FSR Comp 6Fattie
- Levo FSR Comp Carbon 6Fattie
- Levo FSR Expert Carbon 6Fattie
- S-Works Levo FSR Carbon 6Fattie
- Levo FSR WMN Comp 6Fattie

Year of construction:

2017

The conformity with all applicable directives from the guideline:

Machines (2006/42/EC).

The machine also conforms to all the directives in the guideline:

Electromagnetic compatibility (2004/108/EC).

The following harmonizing norms were applied to the product:

DIN EN 15194: Bicycles - electrically power assisted cycles - EPAC bicycles.

Technical documentation by:

Specialized Europe GmbH Lorzenparkstrasse 10 6330 Cham, Switzerland

Signature:

Jan Talavasek (European Engineering Manager)

Specialized Europe GmbH 6330 Cham, Switzerland Jan 1st, 2017

NOTE: This declaration of conformity applies only to bikes sold in countries following the CE marking directives.

- Levo HT Comp 6Fattie
- Levo HT Comp Wmn 6Fattie
- Levo HT 29
- Levo HT Wmn 29
- Levo FSR ST 29
- Levo FSR ST Comp 29
- Levo FSR WMN ST 6Fattie
- Kenevo FSR 6Fattie

14. RETAILER SERVICE SCHEDULE

1st Inspection: After approx. 200 kilometers (120 miles)	2nd Inspection: After approx. 1000 kilometers (600 miles)	3rd Inspection: After approx. 2000 kilometers (1200 miles)
Work done:	Work done:	Work done:
Materials used:	Materials used:	Materials used:
Date:	Date:	Date:
Signature: Retailer Stamp:	Signature: Retailer Stamp:	Signature: Retailer Stamp
4th Inspection:	5th Inspection:	6th Inspection:
4th Inspection: Work done:	5th Inspection: Work done:	6th Inspection: Work done:
4th Inspection: Work done:	5th Inspection: Work done:	6th Inspection: Work done:
4th Inspection: Work done:	5th Inspection: Work done:	6th Inspection: Work done:
4th Inspection: Work done:	5th Inspection: Work done:	6th Inspection: Work done:
4th Inspection: Work done:	5th Inspection: Work done:	6th Inspection: Work done:
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MISSION CONTROL APP

Unleash your Levo, get full control over your Turbo!



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