

English

ASSEMBLY GUIDE

LEVO 4 FRONT LIGHT



1. INTRODUCTION

1.1. SYMBOLS LEGEND

When reading this assembly guide, 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 that, 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 that, if not avoided, could result in serious damage to the bicycle or the voiding of your warranty.



This symbol alerts the reader to information that is particularly important.

1.2. GENERAL INFORMATION

This assembly guide shows installing a wired front light on a Turbo Levo 4 bicycle. A wired front light can be connected to the system using an optional splitter adapter cable connected to the display inside the top tube. Depending on the model, the setup of the light will differ. The light splitter (SKU: S256800002) is available from your nearest Authorized Specialized Retailer. The light splitter cable has the following maximum rating output: 12V, 24W / 2A.

Due to the assembly of the bicycle, it is not possible to internally route a cable to a seatpost-mounted light. Specialized recommends using a

rechargeable battery-powered rear light that attaches to the saddle rails or the stationary part of the dropper seatpost.



WARNING! Running unapproved lights or lights with a high rating may cause a malfunction in the system. Do not exceed the rated maximum power output for the light splitter cable (all lights combined).



For a list of approved lights please visit support.specialized.com.



The images of the light model and connectors shown in this manual may differ from your bicycle and the light you are installing but are similar enough to help you understand the instructions.



Installing lights requires a moderate level of mechanical and electrical skill. If you feel uncertain about completing the installation yourself, seek assistance from an Authorized Specialized Retailer.



If not supplied with a power switch, the lights will turn on automatically when the bicycle is powered on and cannot be turned off while the bicycle is powered on.



Because of the limited space in the top tube of the S1 size Alloy frame, the wiring setup will differ from other sizes. Please follow the layout shown in section 5.3.

SPECIALIZED BICYCLE COMPONENTS

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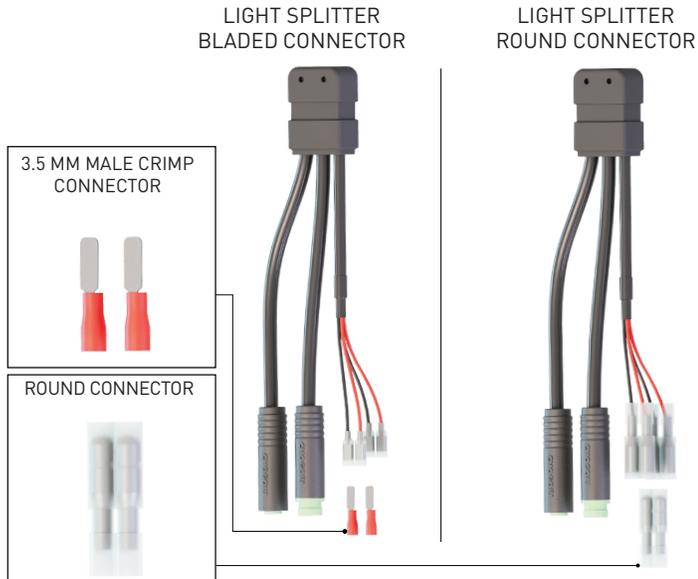
2. REQUIRED PARTS AND TOOLS

2.1. PARTS

- A rated or approved e-bicycle front light, including cabling
- Handlebar mount for a front light, compatible with 35 mm handlebar diameter
- Lights splitter (SKU: S256800002)
- 3.5 mm male crimp connectors (needed with splitter with bladed connectors)
- Shrink tubes

2.2. TOOLS

- Tools for light installation (as per the manufacturer's guide)
- Cable cutters
- Wire stripping pliers
- Heat gun

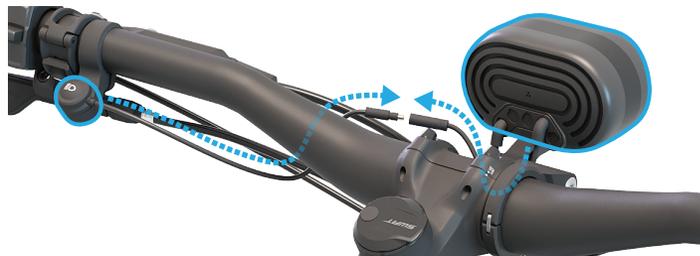


3. PREPARATION

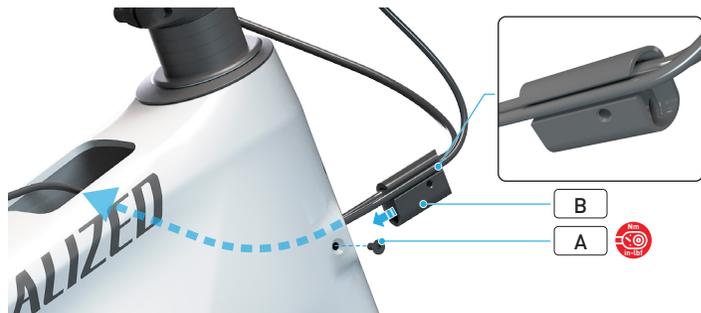


- Turn off the bicycle using the remote. Remove the battery cover, battery, and SWAT bag from the bicycle.
- Lift the display up and out by pushing it towards the bicycle's rear and using your fingertips to lift it out.
- Carefully remove the cable wrap from the frame by guiding it from the top tube cutout.

4. INSTALLATION



- Install the front light (and remote) onto the handlebar according to the manufacturer's instructions.



- Use a 2 mm hex key to remove the drive side ICR port bolt **(A)** and the ICR cable guide **(B)**.
- Thread the light cable through the upper split channel through the ICR port hole exiting the top tube cutout, then reinstall the cable guide and bolt (2 mm hex, do not overtighten).

5. CONNECTION GUIDE

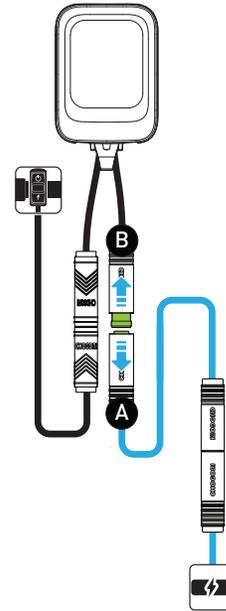
5.1. CONNECTION GUIDE - NON-AXS EQUIPPED (ALL SIZES)



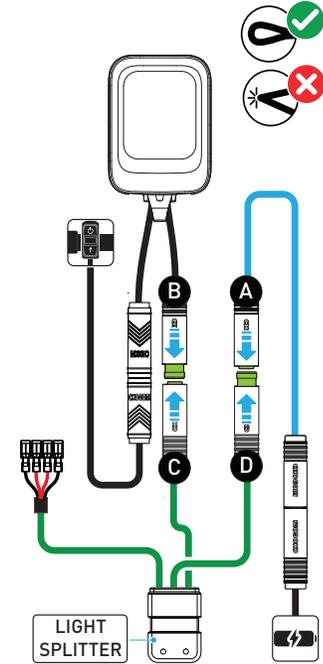
- Remove the display-motor cable connector **(A)** from the display male connector **(B)**.
- Connect the wired light splitter female cable connector **(C)** to the display male connector **(B)**.
- Connect the wired light splitter male cable connector **(D)** with the display-motor female cable connector **(A)**

MECHANICAL SHIFTING

BEFORE



AFTER

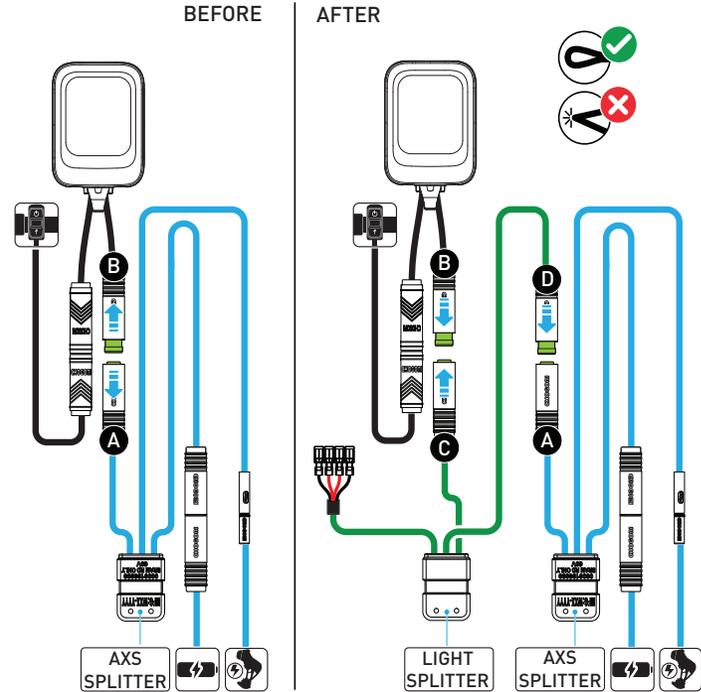


5.2. CONNECTION GUIDE - AXS EQUIPPED (SIZE S2-S6)

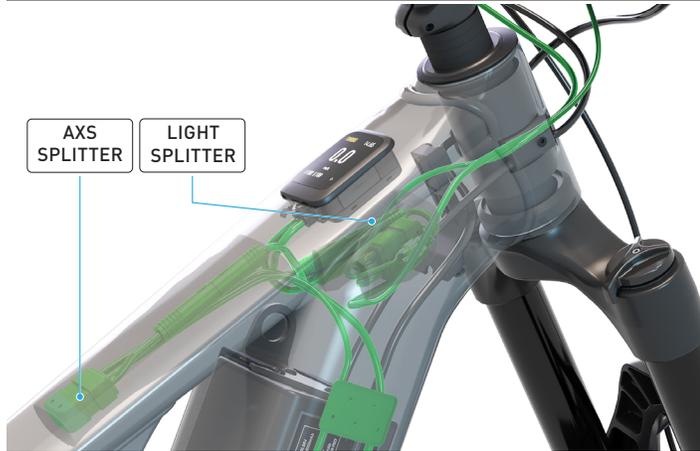


- Remove the AXS splitter female connector **(A)** from the display male connector **(B)**.
- Connect the wired light splitter female cable connector **(C)** to the display male cable connector **(B)**.
- Connect the wired light splitter male cable connector **(D)** to the AXS-splitter female cable connector **(A)**.

AXS SHIFTING



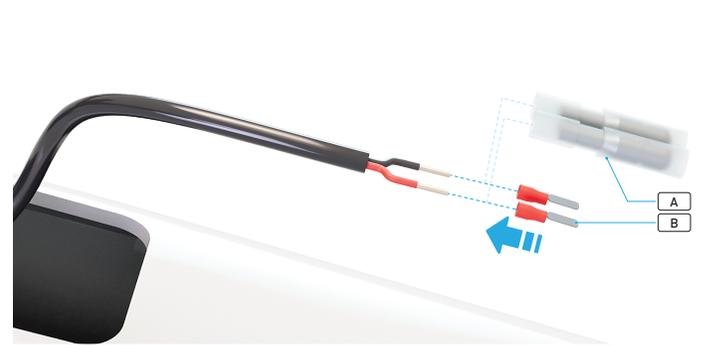
5.3. CONNECTION GUIDE - AXS EQUIPPED (SIZE S1 ALLOY)



Due to the small size of the S1 size Alloy frame, the installation of the splitters into the frame will be different when both splitters are used but the same schematics can be used to connect the splitter (section 5.2).

- Remove the AXS splitter female connector **(A)** from the display male connector **(B)**.
- Connect the wired light splitter female cable connector **(C)** to the display's male cable connector **(B)**.
- Connect the wired light splitter male cable connector **(D)** to the AXS-splitter female cable connector **(A)**.
- Separate the two splitters and use the two short cable wraps to wrap the cables independently (section 5.7).

5.4. CABLE PREPARATION



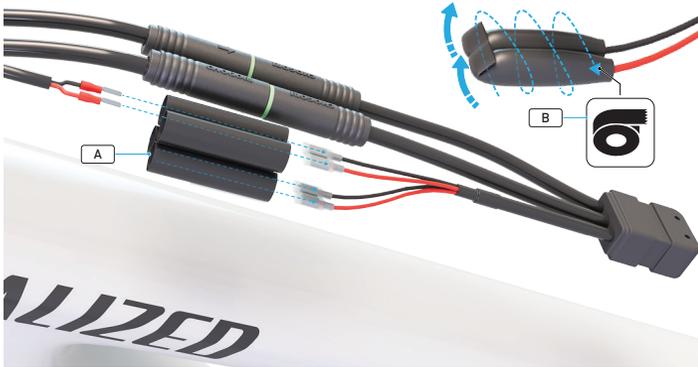
Use a cable stripper to remove approximately 1 cm of insulation from each power cable (typically red and black). The type of connector will depend on the splitter design, which can be either a round **(A)** or bladed **(B)** connector.



CAUTION: Always ensure that exposed connectors do not touch each other or the frame. Avoid powering on the bike without the cables being correctly connected.

5.5. WIRED LIGHT SPLITTER CONNECTION

- Connect the light to the wired light splitter cables.
- Make sure to connect the cables black to black and red to red.
- Use shrink tubes **(A)** and tape **(B)** to waterproof the connectors.
- Power up the bicycle to make sure the light is functioning, then turn off the bicycle.



i Make sure to follow the cable layout carefully to ensure correct operation.

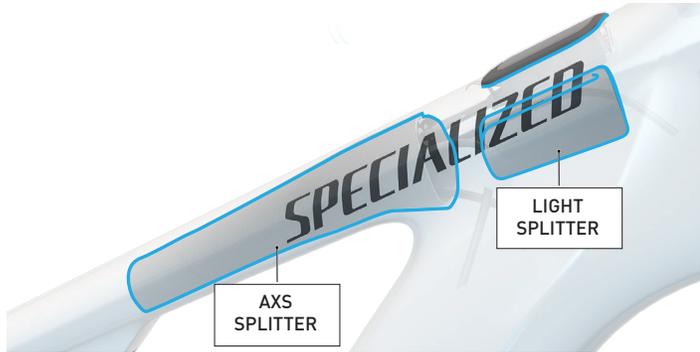
! **CAUTION:** Inadequately waterproofed electrical cable joints can lead to electrical short circuits or system damage.

5.6. INSTALLATION INTO FRAME (S2-S6)

1. Neatly place all cables and splitters in a cable wrap, close the hook and loop fasteners, then insert the assembly into the top tube cavity.
2. Reinstall the SWAT bag, battery, and battery cover.
3. Reinstall the display into the top tube.



5.7. INSTALLATION INTO FRAME (S1 ALLOY)



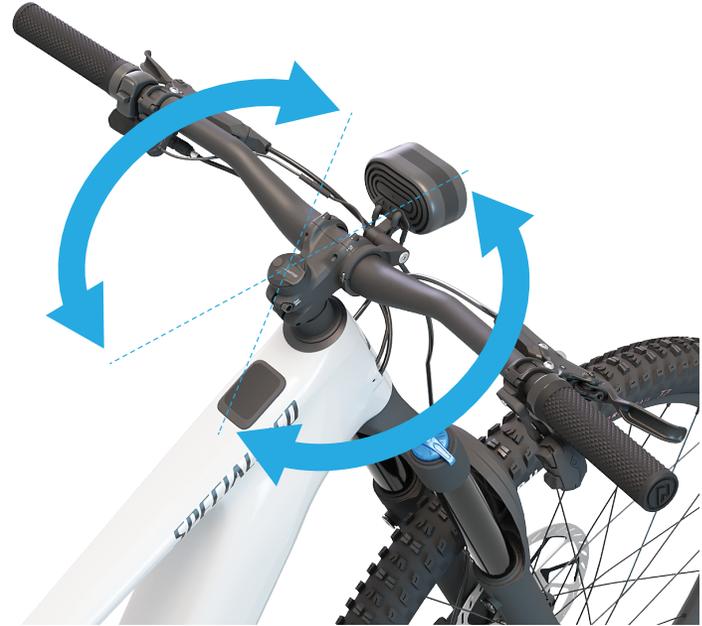
Due to the small size of the S1 size Alloy frame the installation of the splitters into the frame is different when both splitters are used.

- Separate the AXS splitter and cables, place them in a 140 mm cable wrap and then close the hook and loop fasteners.
- Group the wired light splitter and the handlebar remote cable connector together, place them in a cable wrap and then close the hook and loop fasteners.
- Place the wrapped AXS splitter in the top tube and apply pressure to make sure it is as far down the top tube as possible.
- Fold in half and place the wired light splitter wrap in the top tube cavity below the display opening.
- Reinstall the display into the top tube.

CAUTION: Avoid sharp bends: Ensure cables are not bent too sharply to prevent damage to the cables.

i The cable wrap for the S1 Alloy frame needs to be cut shorter than all other frame sizes.

6. FINISH UP INSTALLATION



With the bicycle level, adjust the front light according to the manufacturer's instructions and tighten all bolts to the specified torque.

- Neaten the light cables at the cockpit using spiral wrap or cable clips.
- Ensure there is no cable tension when fully rotating the handlebars.
- Power on the bicycle and check its functionality.
- Take the bicycle for a test ride.

turbob

IT'S YOU, ONLY FASTER

SPECIALIZED BICYCLE COMPONENTS

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