



*Shutter Precision*  
**DS-4 Manual**

2	FORWORD
3	PRODUCT CONTENT
4	TECHNICAL DATA
5	DS-4 INSTALLATION
11	GENERAL INFORMATION

## FORWORD

### -TECHNOLOGY GIVES YOU A SAFER AND MORE COMFORTABLE RIDE-

DS-4 is an ideal dynamo light. It is not only suitable for SP dynamo hubs, but also perfectly matches with all other brand dynamo hubs.

Among the leaders in high-end bicycle products, SP strives to use advanced technology to provide quality products that are safer, more comfortable and more convenient for cyclists. Its optic tech is more progressive. Its craft is more elevated. Its lighting texture is more elegant. And with attentions to every detail, its performance is even more appreciated.

## PRODUCT CONTENT



The DS-4 box has a length, width and height of 9 x 9 x 8.5 cm.

When you receive your DS-4, you will also receive the following accessories.

- ① 1 x front headlight
- ② 1 x bracket for handlebar
- ③ 2 x Screws for the Handlebar Bracket
- ④ 1 x Bracket for Folk
- ⑤ 1 x Nut and Bolt Set for Folk Bracket

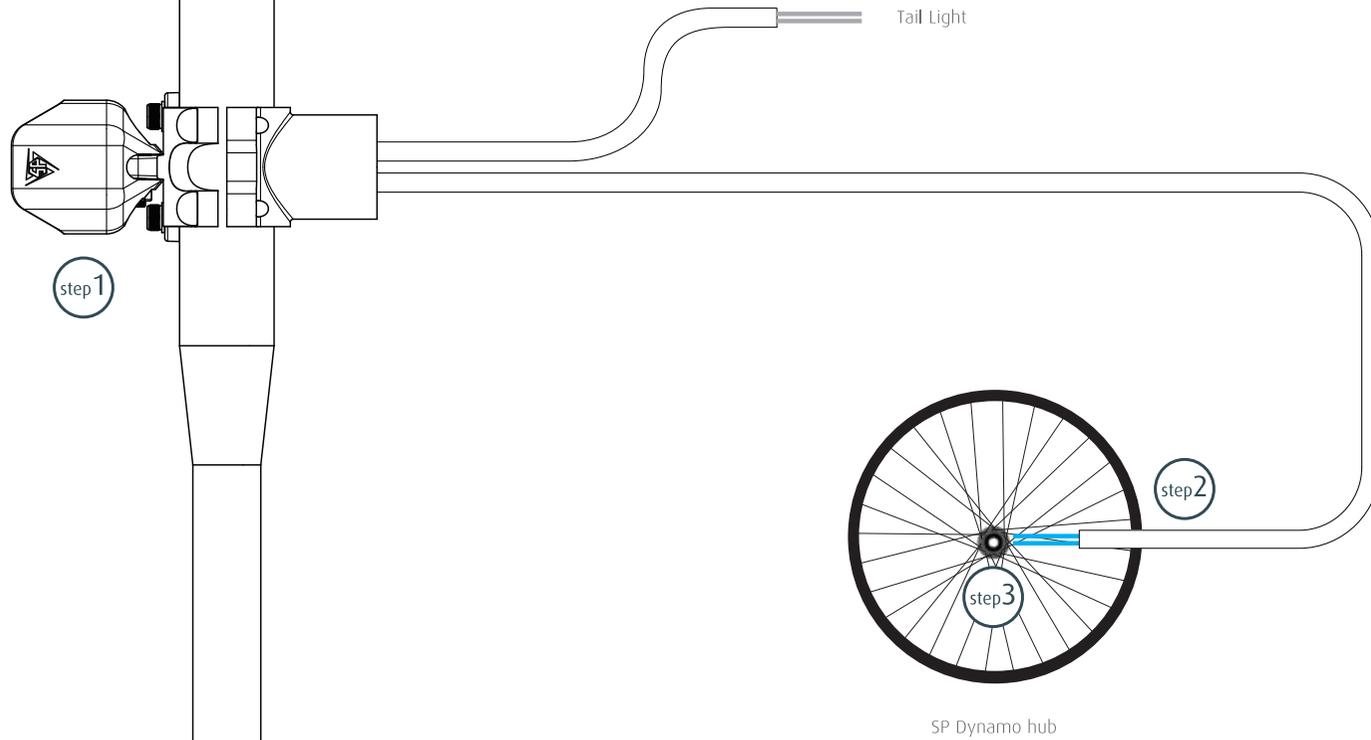
## TECHNICAL DATA

### SPECIFICATION DETAILS

BRIGHTNESS	290lm
POWER CONSUMPTION	3 W
MODE	1
INPUT VOLTAGE	6 V AC dynamo
L x W x H	50 x 45 x 42 mm
WEIGHT	81g
COLOR	Black
HOUSING MATERIAL	Aluminum

# INSTALLATION

Please follow the step 1 to 3 to install your DS-4.  
Please read the pages 6 to 9 for installation details.



## INSTALLATION

### Step 1 : Install DS-4 light body on handlebar



①



②



③



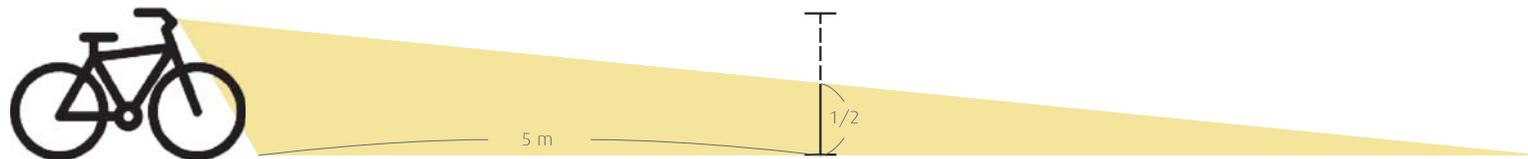
④

Pictures of the included components appear on the left. Your stem should appear as in picture 1.

1. Remove the bolts from the stem.
2. Install on the headlight bracket. (Picture 2)
3. Fasten all stem bolts to 6 Nm. (Picture 3)
4. Install the headlight and fasten the nuts and bolts. (Picture 4)

Please install the DS-4 and adjust the beam to project toward a wall on a level surface at a distance of 5 meters.

Then adjust/aim the cut-off line at a level that is half way between height at which the headlamp is mounted and ground level.



## INSTALLATION

Step 1 (option): Install DS-4 light body on fork crown



①

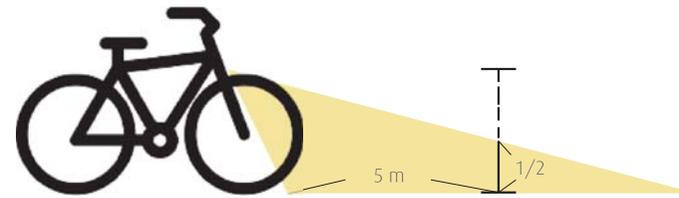


②

Before you install the DS-4, assess whether your fork appears like the one in Picture 1. Since not the same on all bikes accept the same fork crown bolt, the components you receive in the box does not include an extra one. However, such bolts should be readily available from any quality hardware store.

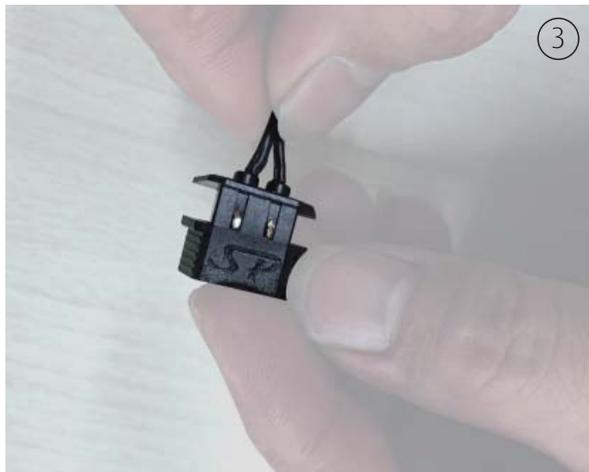
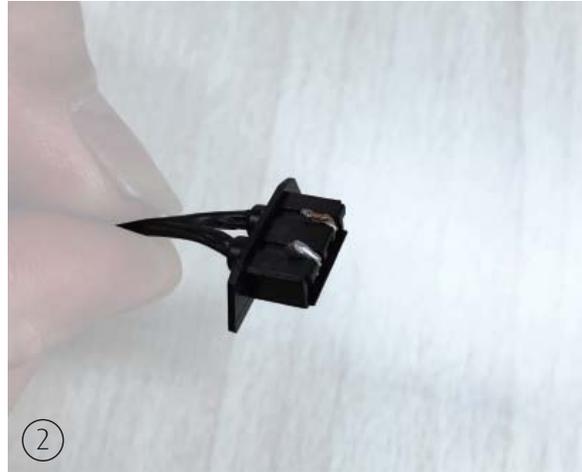
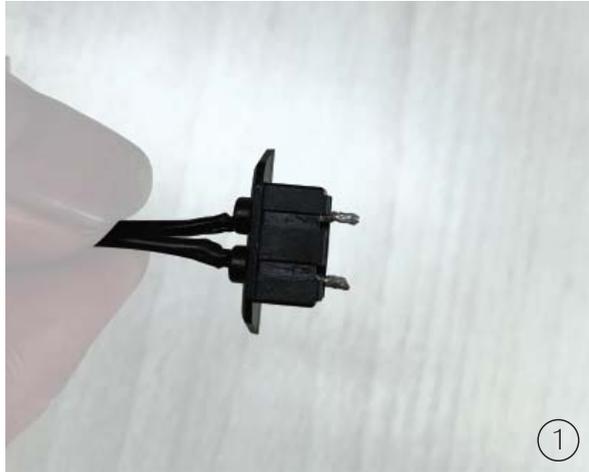
1. Mount the bracket on your fork crown.
2. Install the headlight. (Picture 2)
3. Fasten all bolts to 6 Nm.

Please aim the headlamp as per the instructions above for best results.



## INSTALLATION

### Step 2: Connector plug installation



1. Get rid of the insulation on the end of two cables. The wire is 14mm approximately.
2. Insert two wires through two holes on the top of the connector cap respectively.
3. Bend the wire and run them along the grooves. It is not allowed that two wires touch each other.
4. Insert the connector cap with wires into the connector cable perfectly. Finish connection between wire and connector cover.

## INSTALLATION

Step 3: Put the connector plug into the connection terminal and press it to the bottom.



1. After finishing installation, please tidy up the cable. Make wheel move smoothly and keep bicycle neatly.
2. Make sure the hub is properly installed to the fork by proper stress when fastening the QR.

## INSTALLATION



Please install the headlight in accordance with the instructions and photos provided.

A correct DS-4 installation appears in the provided pictures.

SP offers different kinds of products to join you on the road. The DS-4 is small, but powerful headlight to be with you on your entire journey!

Enjoy your rides with Shutter Precision!

## GENERAL INFORMATION

### CARE INSTRUCTIONS

1. Do not use a high-pressure water or alcohol-containing fluids to clean the headlight or its accessories.
2. Clean the front optic with water and a soft clean cloth when necessary.
3. Do not use aggressive cleaning agents and do not use alcohol based cleaning agents!
4. Check the mounting bolts from time to time.

### WARRANTY & SERVICE

2-year warranty: SP products are covered under warranty for 2-years from the date of purchase.





*Shutter Precision*

sp-dynamo.com

E-mail: shutter.company@msa.hinet.net      TEL +886-4-23328566

Address: No.66, Ln.85, Side N. Rd., Wufeng Dist., Taichung City 413, Taiwan

Copy right © 2019 Shutter Precision Co., Ltd. All rights reserved.