

magniclight microlights

Installing Front and Rear Lights

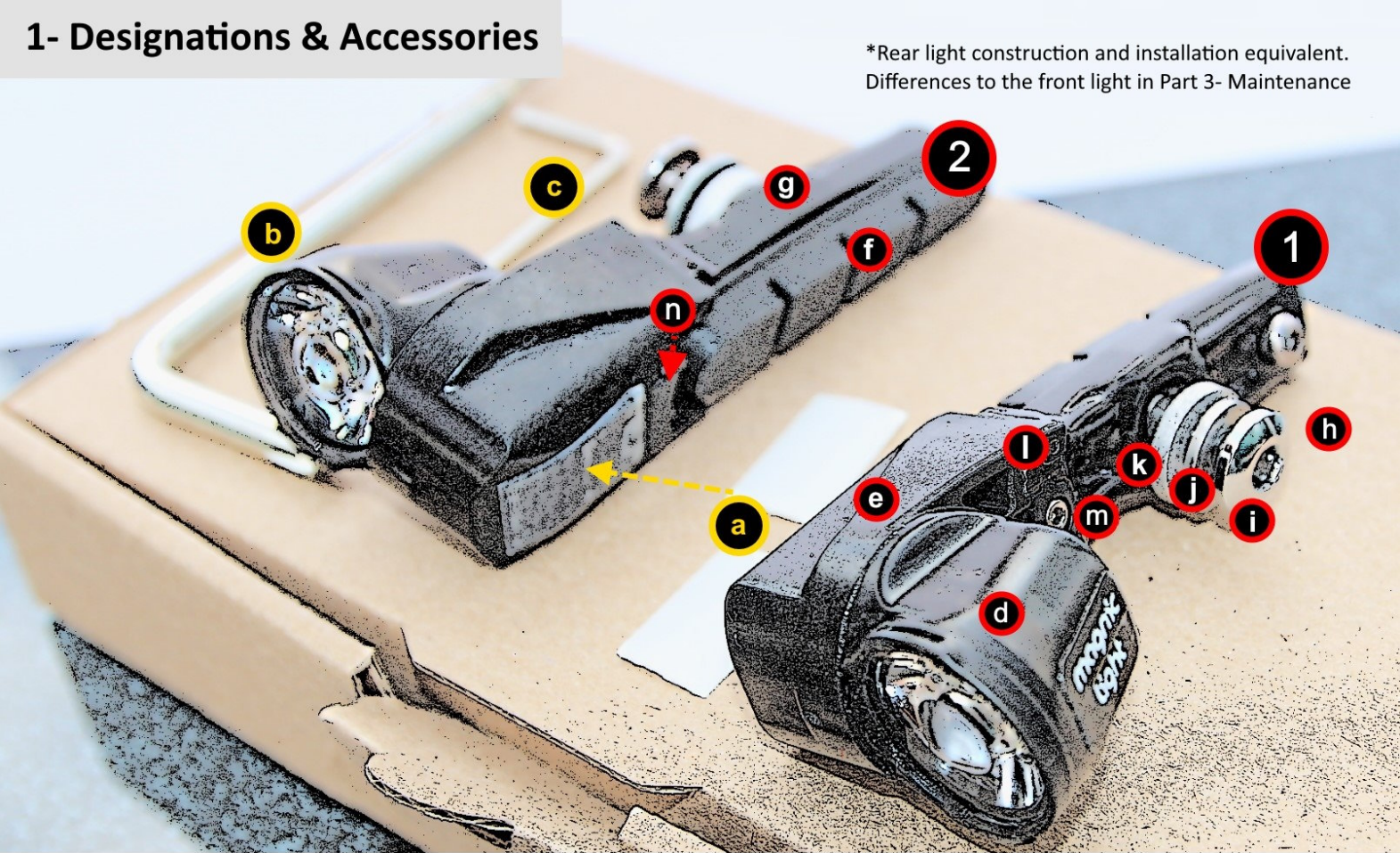
- 1- Labels and Accessories
- 2- Mounting on the Brake Arm
- 3- Aligning Front and Rear Lights
- 4- Changing the Brake Pads



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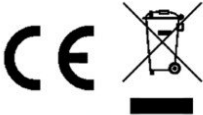
1- Designations & Accessories

*Rear light construction and installation equivalent.
Differences to the front light in Part 3- Maintenance



 Safety instructions

- Always use the protective sticker (a) on the generator. No warranty is provided if the sticker is worn through– always check its condition and replace if necessary.
- Before every ride, check correct alignment and fastening.
- Keep away from magnet-sensitive devices



Magnic Light is a registered trademark.
Patent status: Granted.

Only for Germany/ German STVZO:
Aluminium rims only ≥18" diameter (required for minimum installation height*).

	Max. rim spacing	installation height*	Two lights must be mounted on both sides
Front Lights	1 mm	40-120 cm	
Rear Lights	2 mm	25-120 cm	

1 Microlight – Components (example: front left*)

- d** Rotatable headlight (logo readable facing downward)
- e** Generator housing
- f** Brake pad (replaceable, standard compatible)
- g** Aluminium brake shoe
- h** Brake pad retaining screw
- i** Brake shoe mounting screw
- j** Brake shoe washer
- k** Brake shoe adjusting washer (curved)
- l** Brake shoe expander
- m** Expander screw
- n** Rim clearance rubber (replace when worn to housing edge, approx. 2000 km)

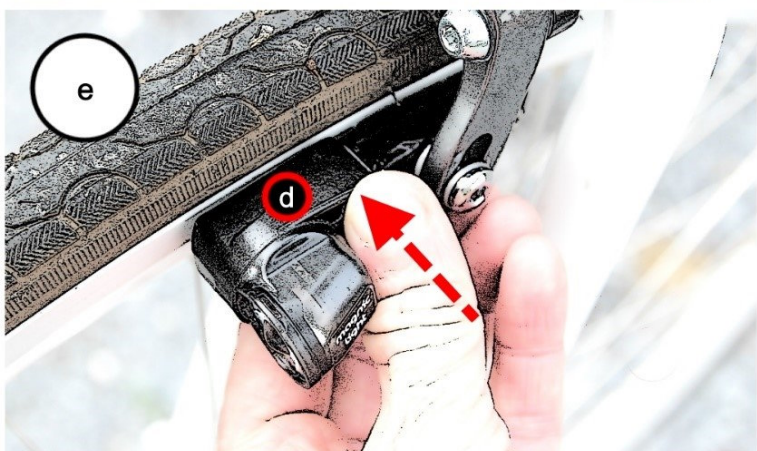
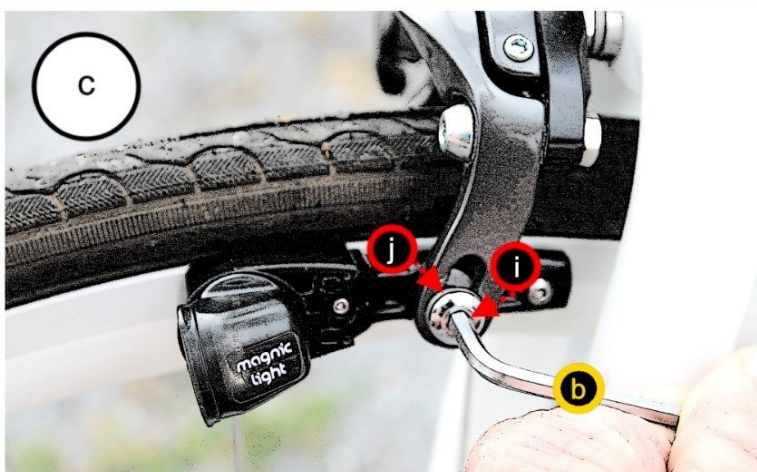
2 Microlight (front right)

Included parts

- a** (Spare) protective sticker
- b** Special key for brake shoe mounting screw
- c** Special key for expander screw



2 – Mounting on the Brake Arm



a Unscrew the existing brake pad from the brake arm.

b For correct orientation, mount the Microlights (left/right) with the logo readable facing downward. For proper adjustment, place the brake-shoe adjusting screw between the brake shoe and the brake arm, ensuring that the curved side of the adjusting washer **k** rests against the brake shoe **g** (the flat side faces the brake arm).

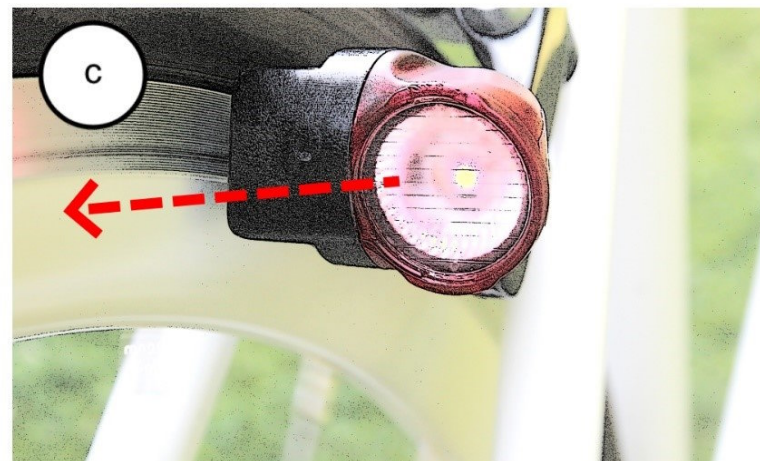
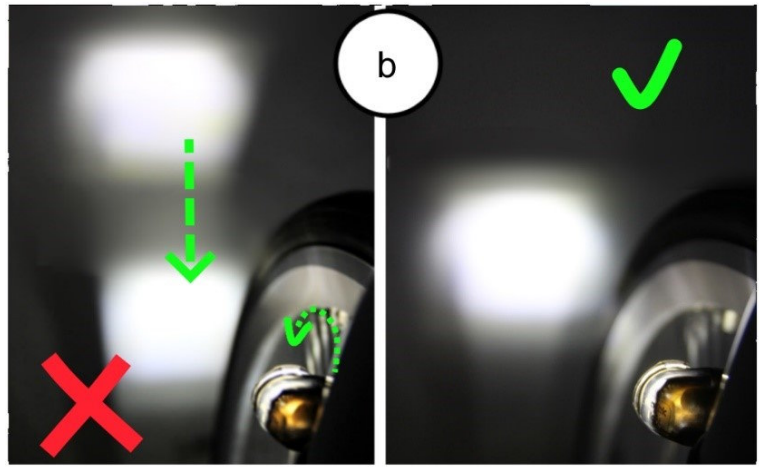
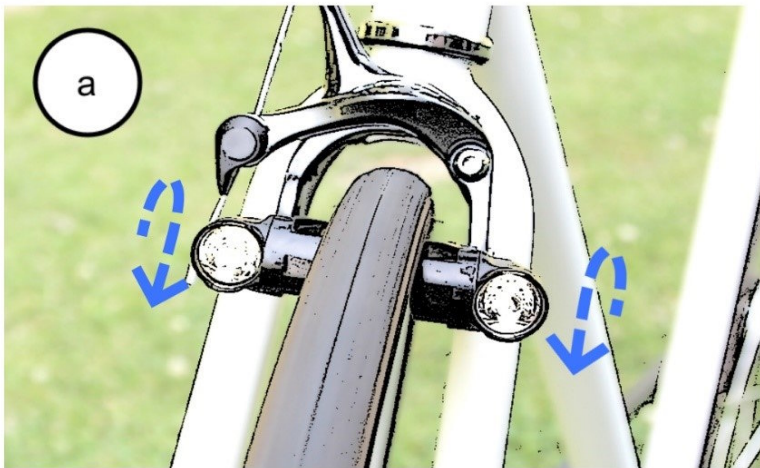
c Position the brake-shoe washer **j** between the brake arm and the brake-shoe mounting screw, and tighten the screw firmly with the supplied special key **b** (torque: 6–8 Nm). Align the brake pad (rubber) straight against the rim using the curved adjusting washer.

d Set the brake so that there is a maximum of 1 mm clearance between rim and brake pad.

e Push the generator housing **d** sideways until it sits flush against the rim (it will automatically readjust when braking).

f If the generator housing **d** slides too easily, slightly tighten the sliding mechanism by turning the adjusting screw **m** clockwise.

3 – Aligning Front and Rear Lights



2 Front lights & 2 Rear lights!

- a Adjust the front lights so that they point straight ahead and are positioned at exactly the same height by rotating the housings.
(Tip: Make the adjustment with the wheel spinning in front of a bright wall at a distance of approx. 5 m.)
- b
 - Left side (incorrect): the light beam of the left lamp must be rotated downward.
 - Right side (correct): both light beams should overlap perfectly.
- c Align the rear lights so they point straight back, parallel to the ground.
- d Check the correct alignment of the front lights against a bright wall:
At 5 m distance, the upper edge of the light beam should be at half the height of the lamp.

Technical Data

Generator output	0.1–0.5 W
Voltage	2–5 V AC
Light output	11 lux at 15 km/h 20 lux at 25 km/h
Stand light duration	4–10 min (rear light)
Weight per lamp (incl. mount)	70g

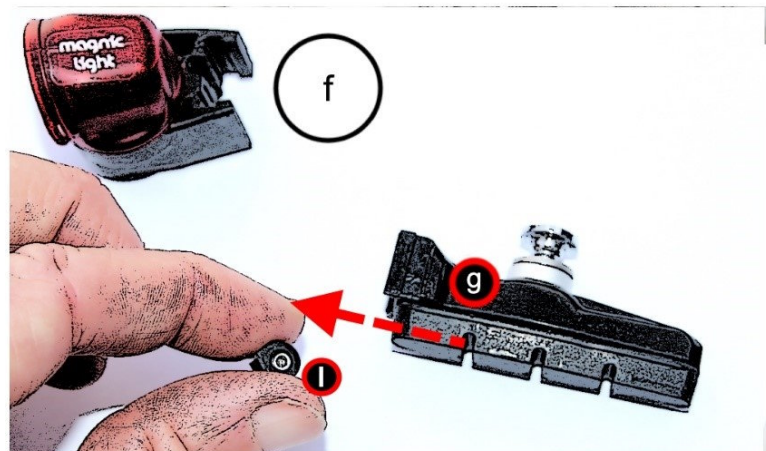
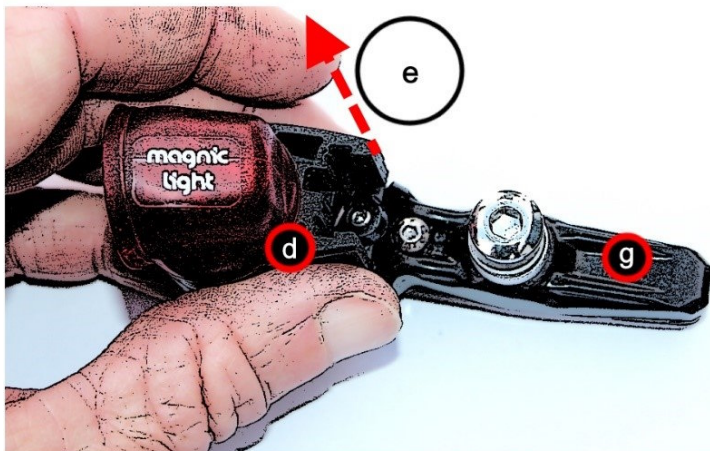
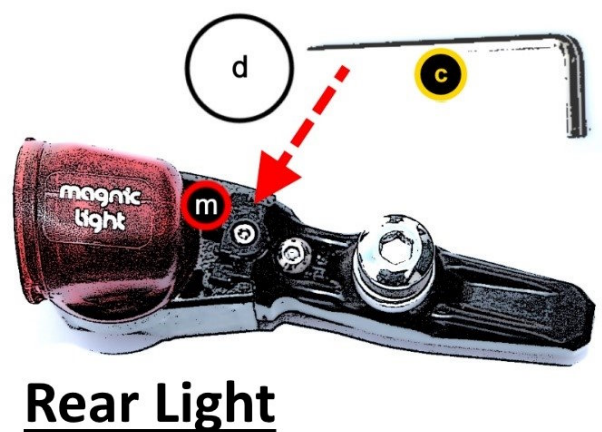
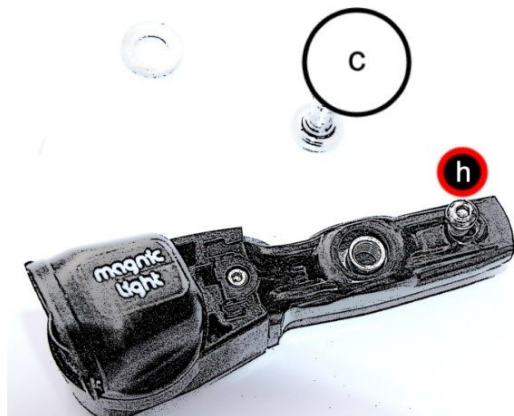
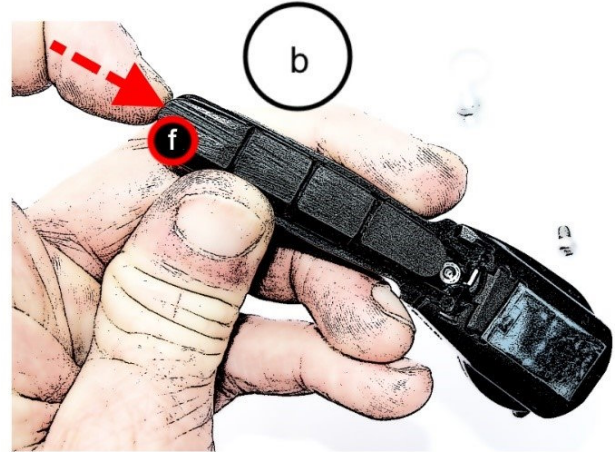
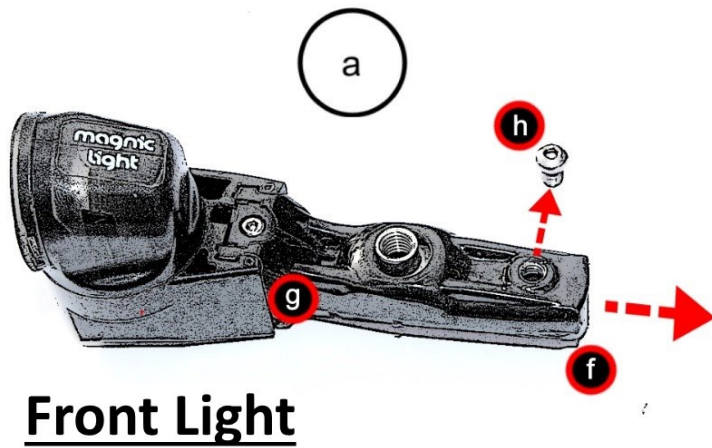
Materials

Generator	Neodymium N52
Housing & bracket	glass-fibre reinforced Polycarbonate
Headlight housing	Polycarbonate (transparent)
Lens	PMMA
Rim Spacer	TPU
LED front light	Cree XQ-E White
LED rear light	Cree XQ-E Red

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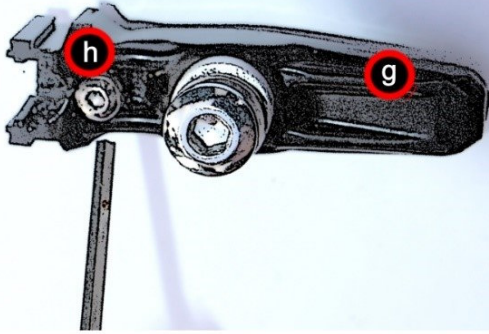
4a – Replacing the Brake Pads



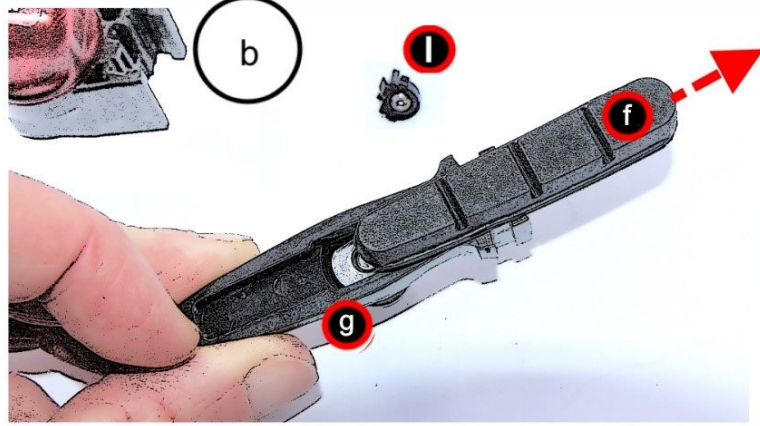
- a** **Front Lights:** Unscrew the brake pad retaining screw from the brake shoe **g** & slide the brake pad **f** backward out of the brake shoe.
- b** Insert a new brake pad (narrow end first) into the brake shoe.
- c** Tighten the brake pad retaining screw again and reinstall the brake shoe (see Section 2).
- d** **Rear Lights:** First, separate the generator housing from the brake shoe **g**. To do this, turn the expander screw **m** counterclockwise.
- e** Pull the generator housing **d** upward off the brake shoe **g**.
- f** The previously loosened expander **l** will drop out of the brake shoe **g**. Slide the brake pad out of the brake shoe.

4b – Replacing the Brake Pads (Rear Lights)

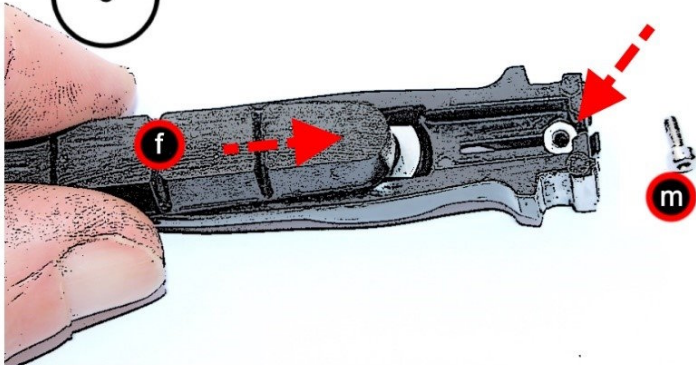
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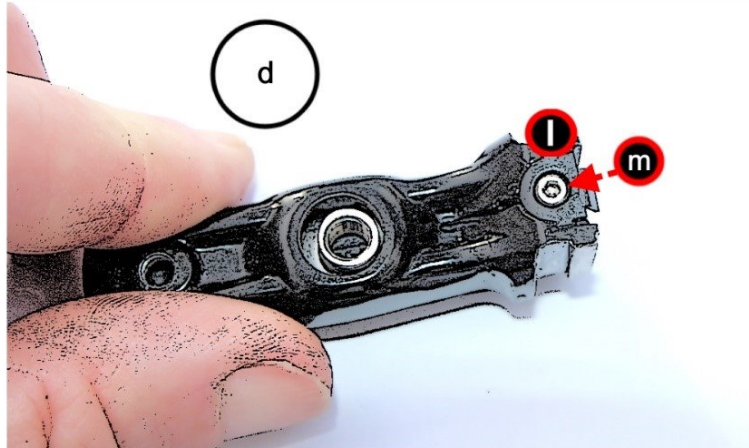
b



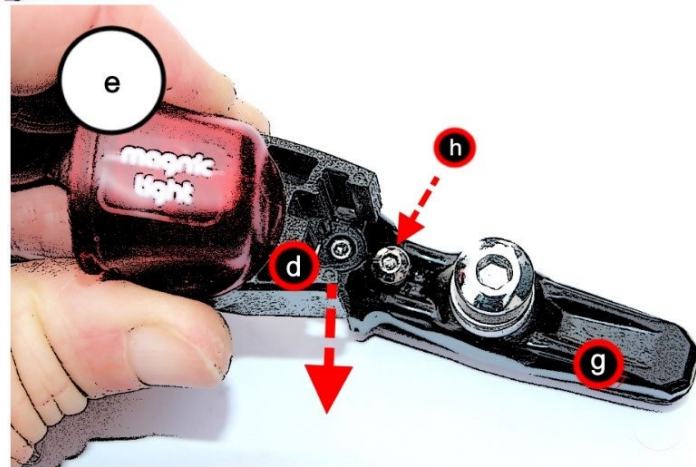
c



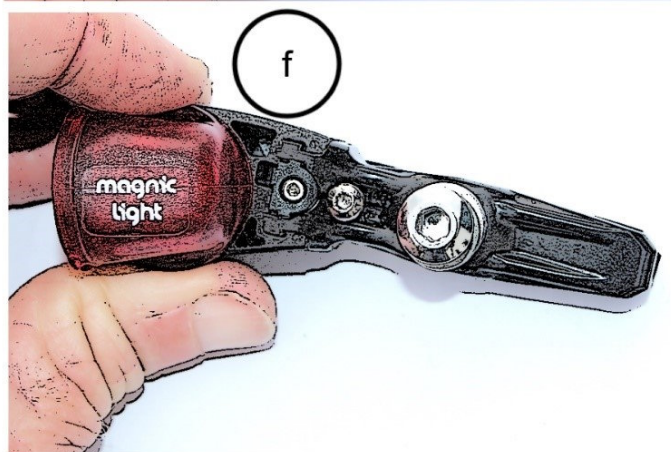
d



e



f



a

Loosen the brake pad retaining screw **h**.

b

Slide the brake pad **f** out of the brake shoe **g**.

c

Before inserting the new brake pad **f**, place the M2 nut for the expander screw into the hexagonal recess of the brake shoe **g**. (This procedure also applies to the front light.)

d

Insert the expander **l** from above into the brake shoe and lightly fasten it with the expander screw.

e

Re-tighten the brake pad retaining screw **h**.
Place the generator housing from above onto the corresponding recess of the brake shoe.

f

Push the generator housing **d** fully down until it locks in place.
Finally, reinstall the brake shoe onto the brake arm (see Section 2).