

FOUR4TH RAMESES MANUAL

Important

You ride at your own risk. Any modification will void warranty. It is important to check that when the battery is fitted it does not affect steering or interfere with cables. It is the owner's responsibility to check before each ride that the 'o' ring is not cracked or worn. If this is the case it should be replaced. When attaching any FOUR4TH product to third party equipment you must check with the manufacturer first. Remove from bike before hosing or jetwashing.

What's in the box?

- 1 x light unit
- 1 x battery
- 1 x mount
- 1 x charger

1 Fitting the battery pack

Attach the two sections by aligning the small notch in the centre of the lens section with the corresponding small slot in the centre of the battery section. When you feel alignment, push home – you will hear a click. Tighten the collar by screwing it fully towards the lens in order to ensure a seal. Each battery pack and light unit is checked at our factory by being assembled and disassembled. Take care not to cross-thread the battery collar and the light unit.

2 Fitting the handlebar mount

Position the bracket so that the rounded part is facing forwards, and on the smallest diameter of the bar. Next, slide the bracket towards the stem. If you have 35mm bars you will not require the acetal spacer. If you have 31.8mm bars after you have moved the bracket into position you will need to repeat the process with the spacer, in order to slide it into the mount. Never try to fit the spacer and bar mount together, as this may snap the bracket. Rotate the bracket into position and carefully tighten the lower M5 cap head bolt by half a turn to nip the bracket into position. Be cautious because over-tightening will weaken the clamp.

3 Engaging the unit

Grasp the light so that your palm is surrounding the aluminium machined body (rather than the smooth battery), and position it so that if it were lit the beam would point to the left or right of you. Locate the front boss nearest the lens and slide it into the recess on the bracket. With your other hand, hold the bracket so that you can feel the bracket isn't under stress as you put it into position. Gently rotate the light until it makes contact with the sprung-loaded bearing. At this point push down to depress the bearing and rotate one click to put the light in its central position. If you are familiar with other FOUR4TH products, bear in mind that the spring on the bracket for Rameses is three times stronger than our other lights, so you will experience more resistance when fitting it but you should use a measured force directly over the top of the bracket and never use the back of the battery as a lever as this could damage it.

Note 1: If you wish to adjust contact tension of the sprung-loaded pin you can do this by using a screwdriver.

Note 2: We recommend that you lock the light into permanent position to guard against unintentional disengagement. This can be done by gently screwing the M8 grub screw in the bracket into the dimples on the light unit.

Now that the unit is engaged, tighten the upper M6 cap head bolt into position, holding the light as you do so. Never attempt to pan and tilt once it has been locked into position as there are serrated sprung-loaded washers inside this part of the bracket which stop it from slipping backwards and forwards. Use the lower M5 cap head bolt for panning and tilting from this point onwards.

4 Charging the battery

Rameses comes with a plug-in charger. It will take 3–4 hours to charge completely from when it is fully discharged. To help extend the long term life of the Li-ion battery, charge the light when it is almost depleted.

Disconnect the light from the battery by unscrewing the slotted collar and firmly pulling the lens section and the battery apart. (The action is a direct pull and not a wobble side-to-side pull, which would weaken the pins.) Plug the FOUR4TH battery charger into the mains and the small LED on the front will glow green. Attach the cable to the battery by aligning the notch on the connector with the corresponding slot on the battery. Gently rotate the cable until you feel alignment, then push home – you will hear a click. The LED on the charger will now show red. When a full charge is attained (after 3–4 hours) the LED will show green. Disconnect the battery from the charger and unplug the charger from the mains.

Reattach the battery to Rameses by following instructions given in step 1 (Fitting the battery pack).

5 Preparing to ride

- Press the switch once: the light is now on its lowest setting. You can toggle quickly between low, medium and high settings with a single press.
- Press and hold to turn the light off.
- Press and hold again to activate flash mode. When in flash mode, single presses toggle between high flash, constant low beam with high flash, and low flashing. Press and hold again to turn the light off.

After 5–10 minutes' use on full beam, if there is insufficient air flow to cool the unit, the motion-temperature sensor will adjust the beam to give the highest power for the speed at which you are riding. The switch LED will glow dimly red during this time. When the light is sufficiently cooled and the light on the switch has gone out, you may then manually switch the light back up to your desired power.

By using the appropriate settings you can increase the run time of the light and reduce the likelihood of the sensor ramping the power down.

LOW setting	Preparing to ride, repairing punctures, stopping to talk, reading maps etc.
MEDIUM setting	Riding
HIGH setting	Riding

Battery

During normal use if the red LED on the on/off switch gives two sets of three flashes this indicates 50% power remaining in the battery. The next warning is two sets of two flashes from the red LED and two momentary flashes from the main beam indicating two minutes of full power remaining. The light will then ramp down to low beam and a single flash from the red LED switch indicates 15 minutes of 'get you home' time.

Charging the battery

When the battery charge is depleted, disconnect the light from the battery. Plug the FOUR4TH battery charger into the mains and the LED on the lower left corner will show green. Attach the cable to the connector on the charger by gently rotating the cable until you feel the pins align, then push home. Screw the knurled nut until it is hand tight. The LED will now show red. When a full charge is attained (after approximately 4–5 hours) the LED will show green. Disconnect the battery cable from the charger and unplug the charger from the mains. Only charge at 14.8v using the FOUR4TH charger and do not leave unattended.

Caring for your light and battery

Never store your FOUR4TH battery fully charged. It must be slightly depleted but should have more than 50% charge. In this condition it may be stored for up to 2 months. It should be charged at least once every 2 months to maintain a healthy condition. When not in use, the light should always be disconnected from the battery, otherwise it will continue to draw a small amount of power. The battery contains circuit protection to prevent over discharge.

Note that all FOUR4TH batteries are microchipped to record charging history and batteries that have been stored with an incorrect charge will not be covered under warranty.

Preparing to store

We recommend you run the following check by setting up the light on a bike as if you are going to use it for a ride.

- 1 Fully charge the battery then plug into the light and run on low power for 1 hour. Do not leave unattended.
- 2 After 1 hour disconnect the battery from the light, then re-connect. When you see a single flash from the on/off LED switch, immediately put the light on full power for 10 seconds. If you see no further flashes from the on/off switch, the battery has more than 50% capacity and can be stored for 2 months. If you saw 3 flashes the battery is depleted more than 50% and needs charging before it is stored. You must ensure that the battery has over 50% but is slightly depleted.

After storage

If you plug the battery into the light unit and get no flashes on the on/off switch LED and the light is not working, it is likely the battery has gone under voltage. Contact FOUR4TH for advice.

Wet conditions

The battery containers and the light have been designed to withstand adverse conditions but you must remove them from your bike before hosing or jetwashing. After using in wet conditions, allow to dry naturally indoors. Never force dry.

Cleaning

Wipe clean with a damp cloth when necessary. Never submerge the unit. Handle and transport with care to avoid scratching the anodised surface.

Warnings

Always use the dedicated 14.8 volt FOUR4TH battery charger provided with your light.

Always ride with two independent lights of equal power (in case one fails you have a back-up light source).

Your unit should be serviced annually and after any crash.

The unit may become hot to touch during or after use. Wait until cool before handling.

Fit frame protectors to guard against marking or damage to bike surfaces or accessories.

Check battery 'o' ring is seated correctly and in place before connecting the battery.

When the battery is disconnected from the light unit, water can penetrate the light unit or the battery. Take avoiding action.

Goods are used at the risk of the owner regardless of any consequential actions.

Never leave your light depleted. The battery manufacturer's printed circuit board will detect low voltages and will disable the battery which is a safety feature for all high quality Li-ion batteries. Low voltage batteries will not fall under warranty.