



**IBIS**



**OSO**

**BATTERY MOUNT  
REPLACEMENT GUIDE**

## TOOLS REQUIRED

- T20, T30 Torx keys



- 2.5mm, 3mm, 4mm, 5mm, and 6mm Allen keys



- Torque Wrench with T20, T30, 4mm, 5mm, and 6mm Allen bits



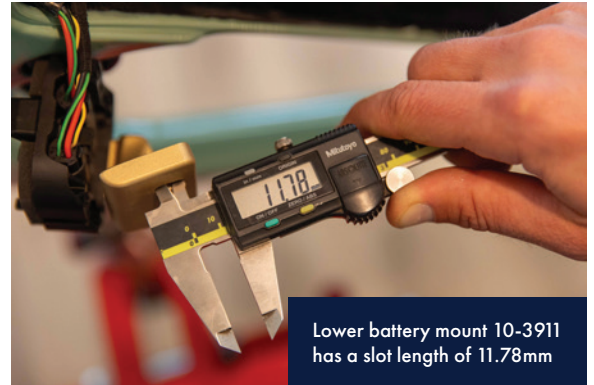
## INTRODUCTION

The original Oso lower battery mount (**10-931**) does not always provide enough fore and aft adjustment to put adequate pressure on the back of the battery. The updated mount (**10-9311**) has longer slots that allow it to be adjusted further forward than **10-931**.

### **DIFFERENTIATING BETWEEN 10-931 AND 10-9311**

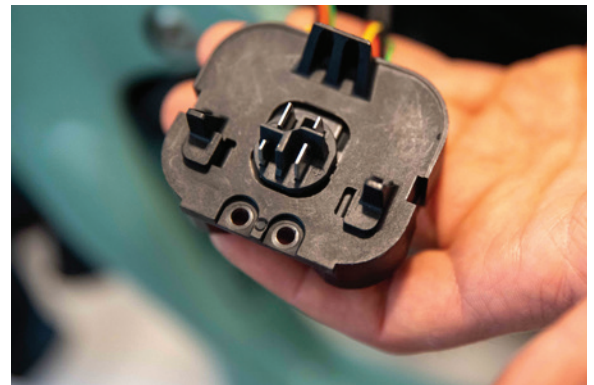
The only difference between **10-931** and **10-9311** is the length of the slots.

- **10-391** slot length: **9.2mm**
- **10-3911** slot length: **11.78mm**



## **PARTS**

- Lower Battery Cradle
- Lower Battery Mount
- Clamp Ring Cradle

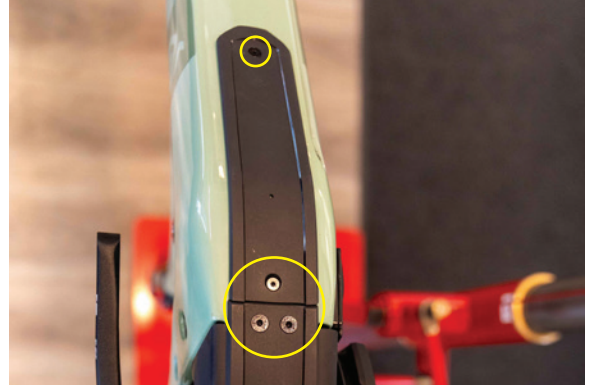


## PROCEDURE

**NOTE:** This procedure is easiest performed with the bike upside down.

### STEP 1

Remove the motor covers and downtube guard using **2.5mm**, **3mm**, and **4mm** Allen keys and a **T20** Torx key.



### STEP 2

Remove battery door and battery using a **6mm** Allen key.



### STEP 3

**A.** Remove the wires from the motor.



**B.** Rotate the chain guide up and pull the chain off the chainring. Remove the motor using a **6mm** Allen key.



#### STEP 4

Remove the lower battery mount. Support the mounting plate inside the downtube with one hand while loosening and removing each lower battery mount bolt using a **5mm** Allen key or **T30** Torx key.

**NOTE:** Your bike may have lower battery mount bolts with **4mm** heads. If so, these should be replaced with bolts with **5mm** heads supplied from Ibis.



#### STEP 5

Replace the original lower battery mount.

**A.** Check the slot length on the lower mount.

- The updated part (**10-9311**) has a slot length of **11.78mm**.
- The original part (**10-931**) has a slot length of **9.2mm** and should be replaced.



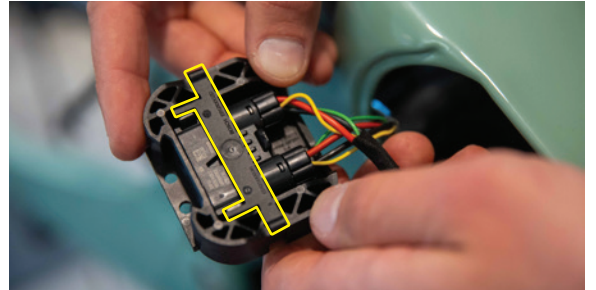
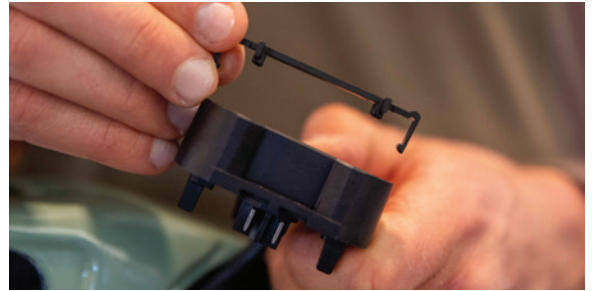
**B.** Remove the foam from the top of the battery cradle.



**C.** Use a **T20** Torx key to remove the lower battery cradle from the lower battery mount.



**D.** Install the clamp ring cradle on the battery cradle.



**E.** Install the new mount in the same orientation. Tighten to **2Nm**.



### STEP 6

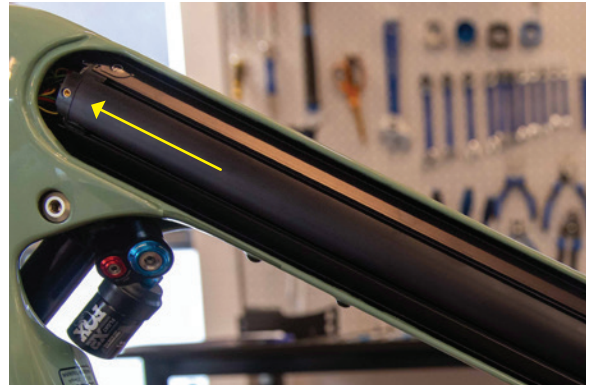
Apply carbon friction paste to the mounting surface on the inside of the downtube. Reinstall the lower battery mount assembly inside the downtube. Be careful not to pinch any wires under the mount. Hold the mounting plate and tighten the lower battery mount bolts snug then loosen  $\frac{1}{2}$  turn using a **5mm** Allen key or **T30** Torx key. Push the lower mount all the way forward.

**NOTE:** If reusing lower mount bolts, apply Loctite 243 to the threads.



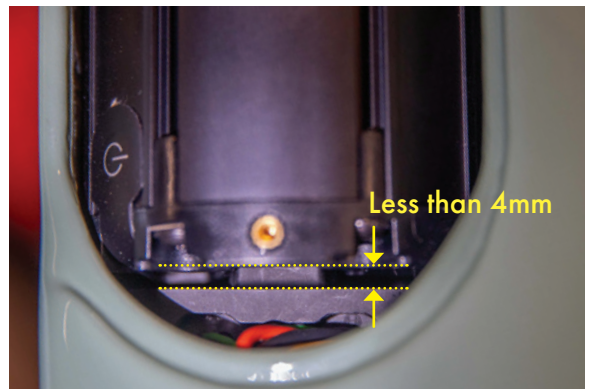
### STEP 7

Reinstall the battery, pushing the lower mount backwards. Tighten the upper mount bolt snug. If the lower end of the battery extends outside of the downtube opening, loosen the upper mount  $\frac{1}{2}$  turn.



### STEP 8

Press the lower battery mount as far forward as possible into the back of the battery and tighten the lower mount bolts to **15Nm** using a **5mm** Allen key or **T30** Torx key. The photo to the right shows the gap between the battery and cradle after tightening. It should be less than **4mm**.



### STEP 9

Tighten the upper battery mount bolt to **12Nm** using a **6mm** Allen key.



**STEP 10**

Apply Loctite 243 to the motor mount bolts. Reinstall the motor using a **6mm** Allen key. Bolts should be tightened front-to-back, drive side first. Tighten to **20Nm**.



**STEP 11**

Reinstall the wires, ensuring correct orientation. They are color coded Black, Grey, Red, and Blue.



**STEP 12**

Reinstall the guards using **2.5mm**, **3mm**, and **4mm** Allen keys, and a **T20** Torx key.



**QUESTIONS?**

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