

**KT165 – Kawasaki ZX10 RR from 2021 - Throttle grip housing installation.**



**1** – Remove the standard twist grip and switch assembly from the bike and expose the sensor element as seen here

In this image the switch components have already been removed

**2** - The wiring for the switch components and the twist grip are electrically separate and only taped together. Split apart at this stage.



**3** – The twist grip sensor is held in place with 2 security screws. Our recommended way to remove these is using a high speed cutter and drill as shown in the image (always use eye protection)

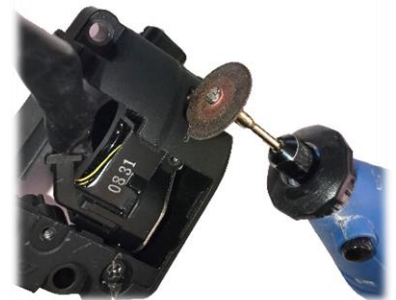


This does damage the standard plastic housing. An alternative way is to drill them out and then extract the remaining stub from the sensor, but not so easy.

Cut a slot in each screw. They are then easy to remove with a normal flat blade screwdriver

Remember that grinding creates heat and sparks. Take care at this stage.

The twist grip sensor can now be removed from the original housing.



**4** – First apply a grease lubricant to the mating tags, this provides a smoother throttle action. Now fit the original twist grip tube into the new outer housing and rotate into the closed throttle position as seen in this image. The grip assembly is quite loose at this stage.

Note that the tube is hard up against the closed throttle stop as circled in the image.



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**5** – Fit the sensor into position within the outer housing. This is a very exact fit but only a small amount of pressure is needed to locate this. **DO NOT FORCE, when aligned correctly it drops neatly into position – Push in straight and not at an angle.**



When fitted correctly you will see the sensor mounting holes aligned perfectly (yellow circles), if not, move the sensor slightly and push back in straight. **DO NOT FORCE,**

If it doesn't fit at all, check section 4 above to make sure the grip is in the closed throttle position.

Now fit the self-tapping screws and fit loosely into the hole. Do not tighten at this stage



**6** – Stretch the rubber O Ring over the main connector and slide it up near the twist grip housing. Now fit the wire exit guard as seen in these images and hold them together using the O ring.

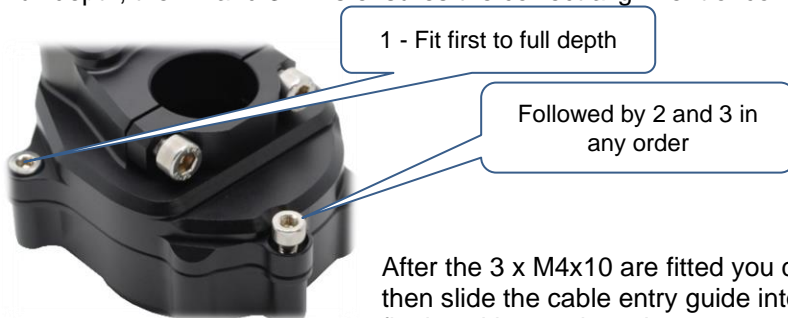
Note: Stretching the O ring over the connector can need an extra pair of hands.

Alternatively you can use any cable tie to hold these two wire guards together.



**7** – Slide the cable entry guide fully into the slot in the inner housing as seen in the picture to the right.

Fit the 3 x M4x10 cap screws in the order shown. Screw 1 **MUST** be fitted first to full depth, then 2 and 3. This ensures the correct alignment of components.



After the 3 x M4x10 are fitted you can then slide the cable entry guide into its final position to close the gap.

Now fully tighten the self-tapping screws. But only minimal torque is needed as you are fitting into plastic.



**8** - Fit the clamp loosely with the 2 x M5 screws and slide the new assembly over the end of the handlebar and into position.

Now tighten using the 2 x M5 clamp screws ensuring that the assembly cannot rotate or slide off. Remember that riders put a lot of force through the grip.

**IMPORTANT** – Always ensure that the parts you fit do not obstruct full brake lever movement, rotate the housing as needed to achieve clearance.



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9 - Now fit your choice of handlebar switch. Our product 4BC-36 is designed specifically for this bike.

