



**FITTING INSTRUCTIONS FOR ECC0320R**  
**LHS ALTERNATOR + WATER PUMP ENGINE CASE COVER**  
**APRILIA RS660 2021- & TUONO 660 2021-**



**THIS KIT CONTAINS THE ITEMS PICTURED AND LABELLED OVER PAGE.**

SOME PARTS MAY BE SHOWN FOR CLARITY OF INSTRUCTIONS ONLY.

DO NOT PROCEED UNTIL YOU ARE SURE ALL PARTS ARE PRESENT.

**PLEASE READ ALL INSTRUCTIONS BEFORE PROCEEDING.**

**IF IN ANY DOUBT WHEN FITTING OUR PRODUCTS, CONSULT ONE OF OUR DEALERS  
OR HAVE FITTED BY A QUALIFIED TECHNICIAN.**

PLEASE NOTE THAT THE WAY THE KIT IS PACKED DOES NOT NECESSARILY REPRESENT THE WAY OF  
MOUNTING TO THE BIKE.

IN THE EVENT OF RUBBER WASHERS BEING USED TO HOLD COMPONENTS ONTO BOLTS,  
THESE RUBBER WASHERS CAN BE THROWN AWAY.

**DIGITAL COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FROM:**

[WWW.RG-RACING.COM](http://WWW.RG-RACING.COM)

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<b><u>TOOLS REQUIRED</u></b>	<b><u>GENERAL TORQUE SETTINGS</u></b>
<ul style="list-style-type: none"> <li>Set of allen keys to include 3mm, 4mm &amp; 5mm</li> <li>8mm &amp; 10mm spanners or sockets</li> </ul>	M4 BOLT = 8Nm M5 BOLT = 12Nm M6 BOLT = 15Nm M8 BOLT = 20Nm M10 BOLT = 40Nm M12 BOLT = 40Nm

### **LEGEND**

<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
ITEM 1	ECC0320R ENGINE CASE COVER INCLUDING FITTED SPACERS	1
ITEM 2	M6 x 1.00 x 40mm CAP HEAD BOLT	3
ITEM 3	M6 x 1.00 x 60mm CAP HEAD BOLT	1
ITEM 4	SPACER (S1303)	4

### **FITTING PICTURES**



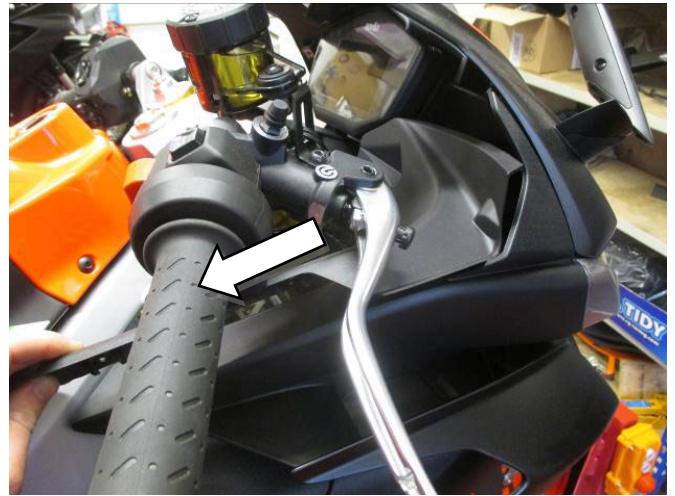
Picture 1



Picture 2



Picture 3



Picture 4



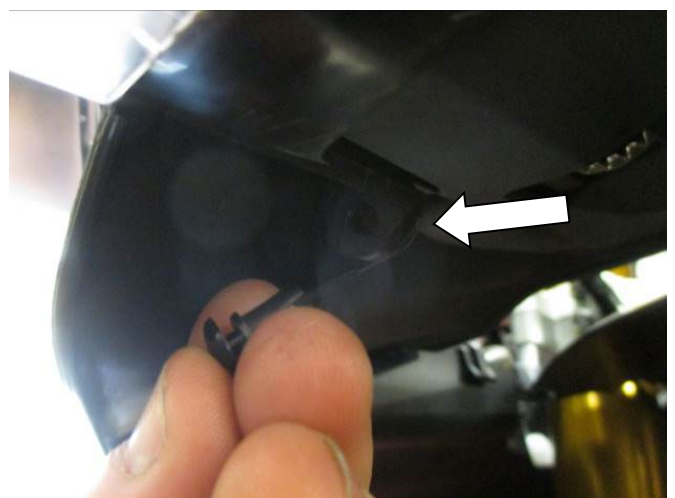
Picture 5



Picture 6

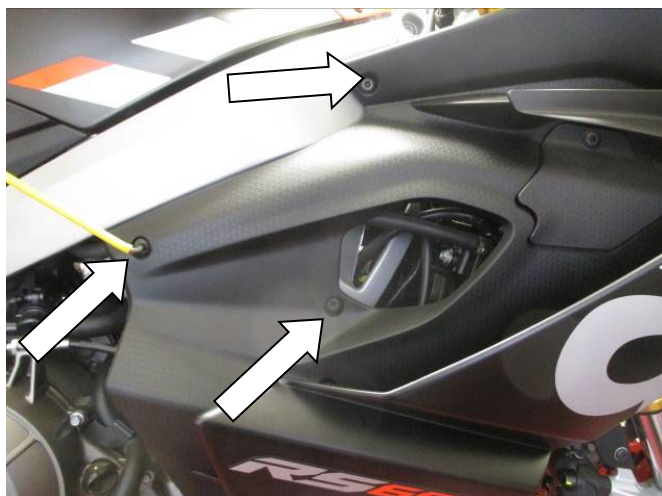


Picture 7



Picture 8

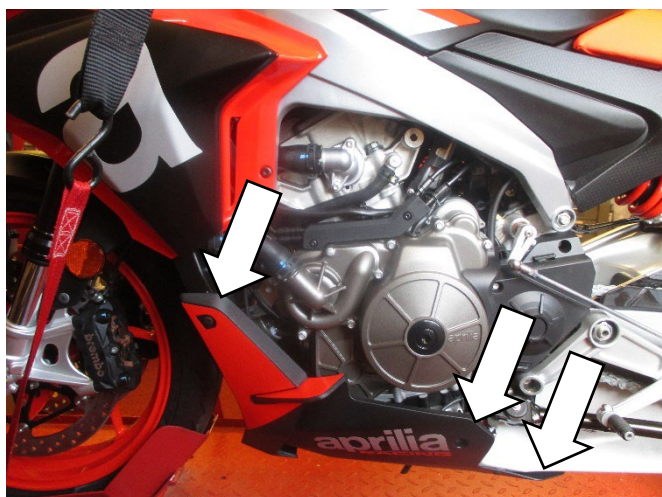




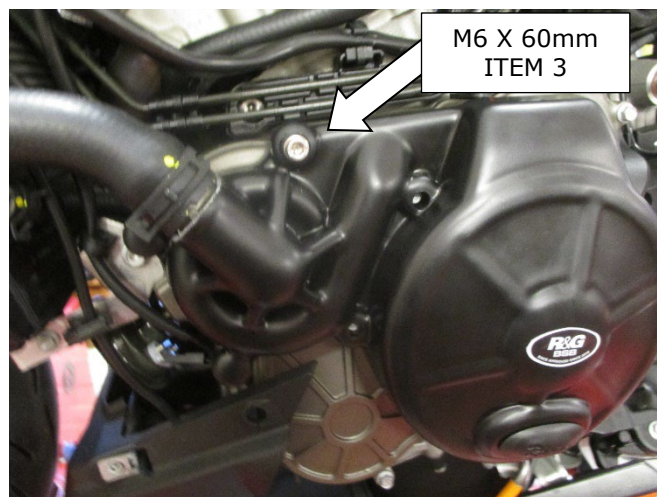
Picture 9



Picture 10



Picture 11



Picture 12



Picture 13

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## **FITTING INSTRUCTIONS**

### **If fitting to RS660 models:**

- Ensure the engine is cold before proceeding with the fitting of the R&G cover.
- To fit the engine case cover, the left-hand side fairing panel must be removed, begin by removing the inner panel inside the front fairing, to do this:
  - Using a Philips head, remove the screw shown in **picture 1**.
  - Remove the upper panel bolt underneath the mirror as shown in **picture 2**.
  - Remove the 3 x fairing bolts on the lower section of the panel using a 2.5mm hex key as shown in **picture 3**
  - Remove the panel by lifting this up and back as shown in **picture 4**.
- Next, remove the large central fairing panel, to do this;
  - Using a 4mm hex key, remove the bolt arrowed in **picture 5**.
  - Using a 8mm Spanner or socket, remove the screw arrowed in **picture 6**.
  - Using a torx tool, remove the 3 x inner bolts of the radiator surround as shown in **picture 7**.
  - Remove the plastic push pin from the front of the fairing under the headlight by loosening the central pin and pulling the pin from the fairing as shown in **picture 8**.
  - Using a 4mm hex key, remove the 4 x fairing bolts shown in **pictures 9 & 10**, being careful to support the panel as you do this.
- Ensuring no fasteners remain, carefully remove the panel from the bike, ensuring to disconnect the locating tabs from underneath the headlight.

### **If fitting to Tuono 660 models:**

- Ensure the engine is cold before proceeding with the fitting of the R&G cover.
- While supporting the belly pan from underneath. Remove the three bolts arrowed in **picture 11** from each side of the bike.
- Remove the belly pan from the bike, ensuring to detach any rubber hoses connected to the belly pan.

### **For all models:**

- Referring to **Picture 12**, To fit the R&G engine case cover remove the four M6 engine case bolts in the positions arrowed above. Hold the cover loosely over the case to help identify the correct ones. **DO NOT REMOVE ALL OF THE CASE BOLTS.**
- Ensure the pre-fitted threaded spacers in the casing are hand tight against the inside of the ECC0320 Engine Case Cover (**item 1**).
- Thread the 4x supplied bolts (**items 2 & 3**) into their corresponding locations in the case cover (**item 1**) as shown in **pictures 12 & 13**, and place 1x spacer (**item 4**) over the end of each bolt.
- Offer up the R&G cover to the engine and carefully fit it over the casing. Ensure that the four R&G bolt holes are lined up with the holes in the engine casing, and then push the case on as far as it will go.
- Loosely thread the upper forward M6 x 60mm Cap head bolt (**item 3**) first, as shown on **Image 12**.
- Now, loosely thread the remaining M6 x 40mm Cap head bolts (**item 2**) through the fitted spacers and into the engine case in the holes arrowed in **picture 13**.
- With a 5mm hex key, tighten the bolts equally so that they pull the cover into place. **DO NOT FULLY TIGHTEN. *note; a small amount of coolant may leak from the case when tightening as the water pump cover tightens to the engine.***
- ensuring the Engine Case Cover (**item 1**) is pulled snugly over the engine case.
- Finally use a torque wrench set at **10 N/m (7 Lb/ft)** to fully tighten each bolt.
- For RS660 Models, re-install the fairing as by reversing the steps followed to remove, the locator clips at the front of the mid panel line up correctly with the nose cone.
- For Tuono 660 models, re-fit the belly pan by reversing the process which it was removed.

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- It is suggested that you check the tightness of the mounting bolts on a regular basis i.e. when cleaning or once a month.
- NOTE for the cleaning of this product you should only use a soft polishing cloth and a mild general cleaning agent.
- AVOID HARMFUL CHEMICALS. IF IN DOUBT DO NOT USE AS THEY COULD ALTER THE STRENGTH OF THE COVER.
- R&G will accept no liability if the above procedure and torque settings are not followed.
- Check all components are secure and all bolts are tight before riding.

ISSUE 2 – 30/01/2026 (DM)

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