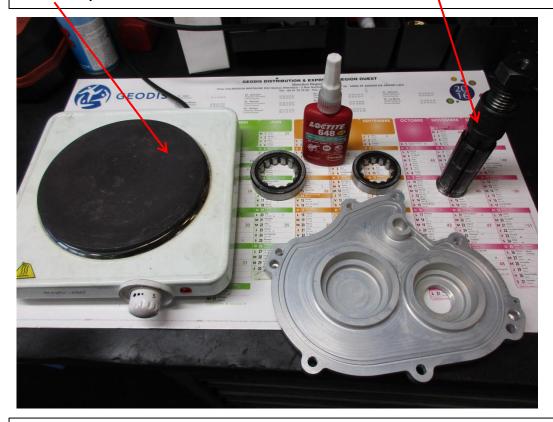


# Procedure to check play of lines of ETCW gearbox.

#### 1- Preparation

To check the play, you need to extract external bearing rings from rear cover. For this you need an extractor, a heater plate and **GLOVES**.



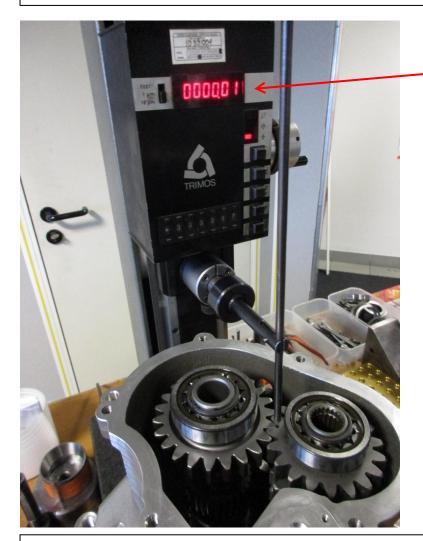
#### How to operate:

- -Put the cover on the heater plate
- -When it is hot, help you with the extractor to extract bearings

initialize your control means '0' on primary 6th gear face.



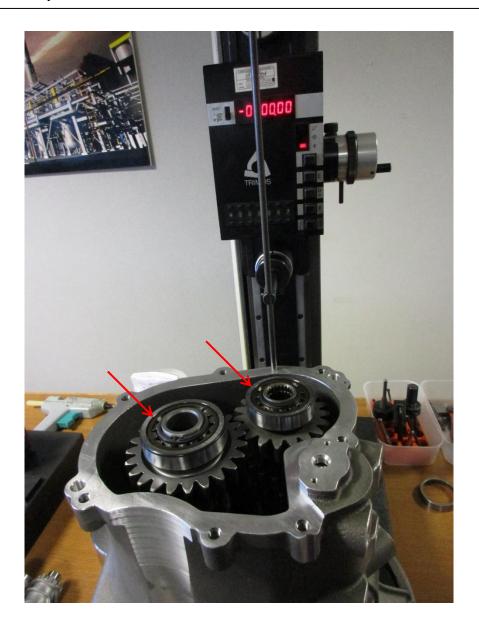
Measure gap G between primary and secondary lines on secondary 6th gear.



Gap G

If the value exceeds 0.5mm, adjusting shim Ø61xØ52 for primary line or Ø71x60 for secondary line should be added on clutch casing side.

When the bearings are cold, put them on the lines and initialize your control means '0' on cover contact surface.



Measure dimension P1 on primary line (gearbox side)



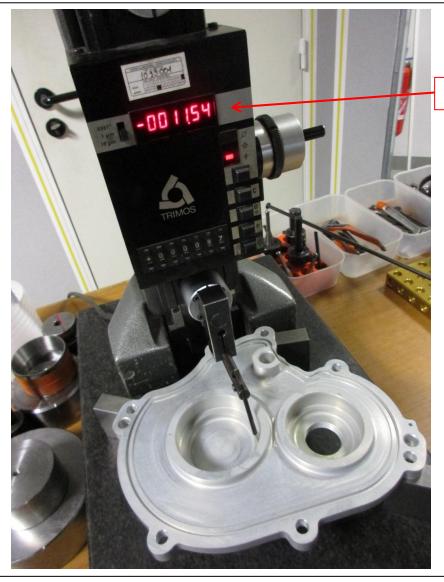
Measure dimension S1 on secondary line (gearbox side)



initialize your control means '0' on gearbox contact surface.



Measure dimension S2 on secondary line (cover side)



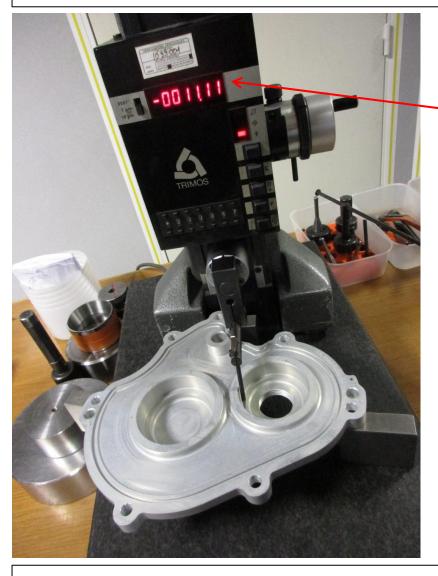
Dimension S2

Secondary line play = S2-S1

For example here it is 11.54 - 11.32 = 0.22mm

If the value exceeds 0.4mm, adjusting shim Ø71xØ60 should be added on cover side.

Measure dimension P2 on primary line (cover side)



Dimension P2

Primary line play = P2-P1

For example here it is 11.11 - 10.79 = 0.32mm

If the value exceeds 0.4mm, adjusting shim Ø61xØ52 should be added on cover side.

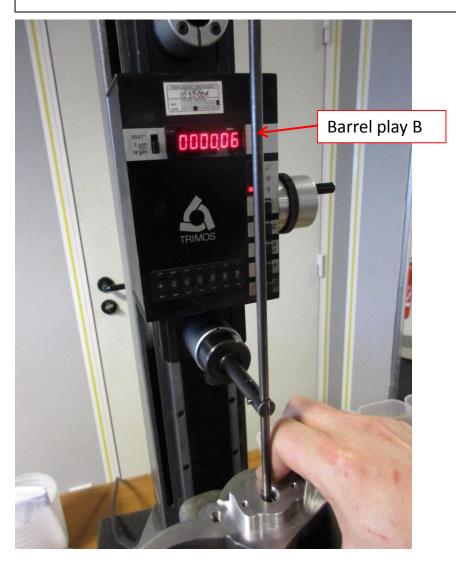
### 4- Barrel axial play

initialize your control means '0' on barrel through sensor hole.



#### 4- Barrel axial play

Move the barrel on upper position and measure barrel play B.



If the value exceeds 0.3mm, adjusting shim Ø51xØ47 should be added on cover side .

# 5- Procedure to assemble external bearing rings in the cover

#### 1- Put the cover on heater plate



#### 2- Put glue Loctite 648 on external bearing rings



# 4- Procedure to assemble external bearing rings in the cover

3- Put the rings in the cover (if the cover is hot enough, the rings engage freely).

