

CHECK THE TIGHTENING OF THE SLEWING MOTOR ENCODER AND PLAY BETWEEN TOOTH PLAY

TA20-276-A

Product Improvement Program (PIP) :

Service bulletin:

Welding instructions :

Crane family: GMA

Range : HUP

Model:

A Technical support 10/26/2020 Creation

Index Written by Date Comment

DIAGNOSIS

Below you will find how to check the tightening of the slewing motor encoder and play between tooth ring and pignons.

1/Checking encoder

Check the tightening of the encoder by trying to turn the encoder ring manually and by checking the tightening of the screws at the same time.

Take a photo of the encoder fitting

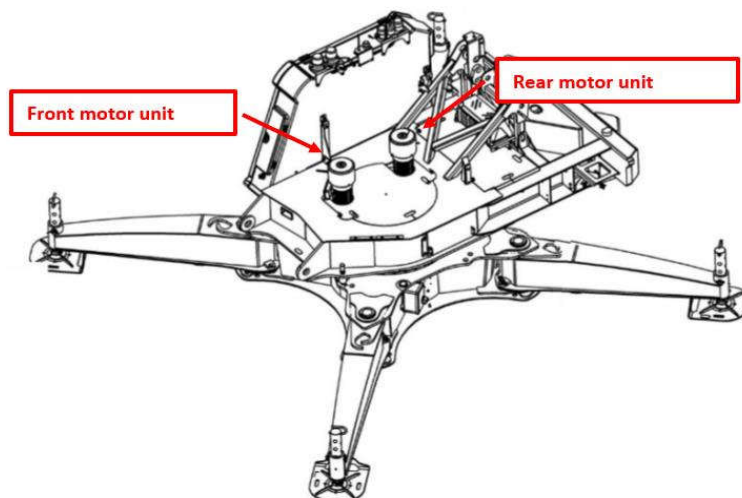
Check whether there is a threadlocker on the tightening screw



SOLUTION

2/Ring and pinion set

Raise the ring and pinion set on each motor unit with a set of calibration shims.



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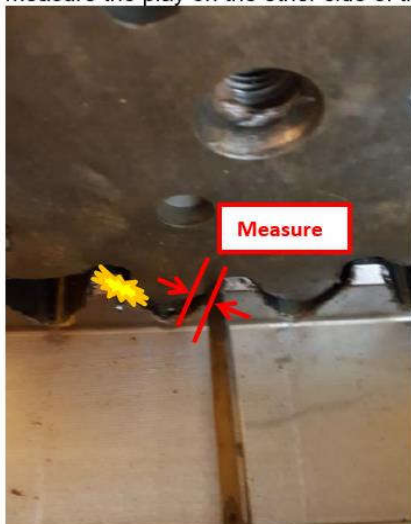
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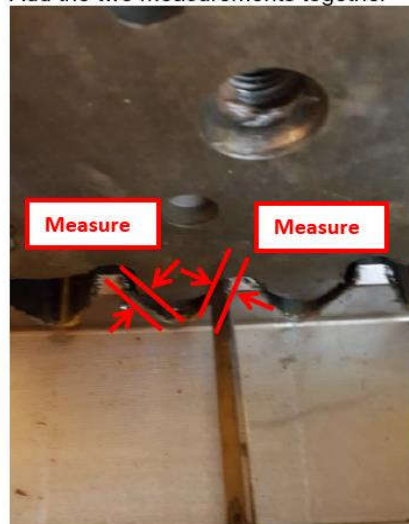
SOLUTION

Two methods:

1-Either place the tooth of the pinion against the tooth of the ring by turning the motor by hand, and measure the play on the other side of the tooth



2-Or measure the play on each side of the tooth, but this must be done with two sets of shims. Add the two measurements together



If the difference in play between the front and rear motor unit is greater than 0.5 mm:

- Indicate the unit the encoder is fitted on, and move the encoder to the unit with the least ring-and-pinion play.
- Change the parameter 44.14 = 400 ! \ You need to modify the work conf and then save

Reminder of the method for saving parameters:

Save the parameters in the work conf-> 96.11 = 18

Once the parameters have been saved, change the parameter 96.11-> 96.11 = 1