Service Instructions
VCIOM-17117-EN Rev. 0
July 2022

Bettis RTS

CM64 Modification from 100 to 300 Revolutions

BETTIS™

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Section 1: Modification of CM64 from max.100 to max. 300 rev./stroke

1.1 Requirements

- Dismount actuator from valve
- Bring actuator in a workshop/workbench
- Prepare all tools and required parts
- This application only applies to CM64, not CM32

1.2 Modification Procedure

1. Open the screws between electric housing and mechanical housing.

NOTE:
Make sure that the display is on top position because mechanical housing is filled with oil.

Figure 1

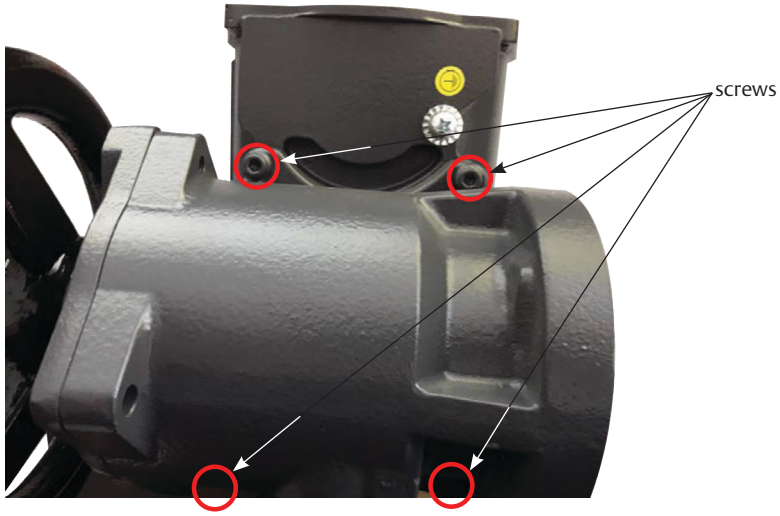
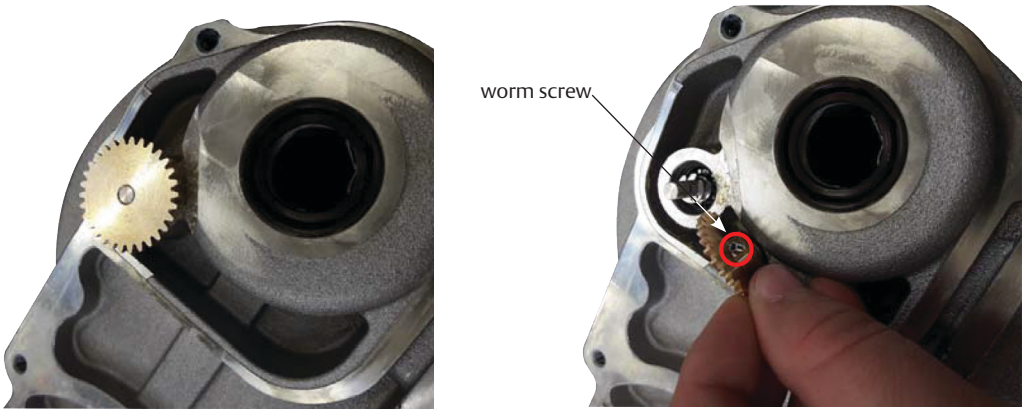


Figure 2

2. Remove the pinion by loosening the worm screw.

Figure 3

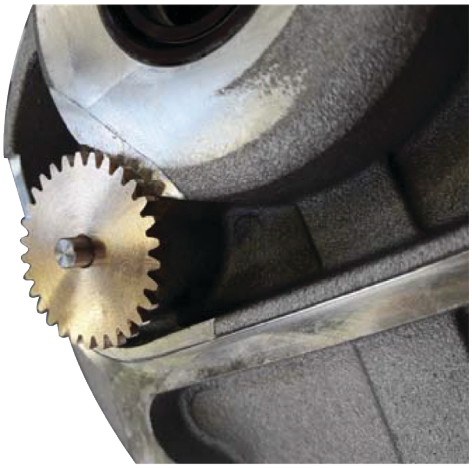


3. Remove the clipper and replace on the groove below.

Figure 4

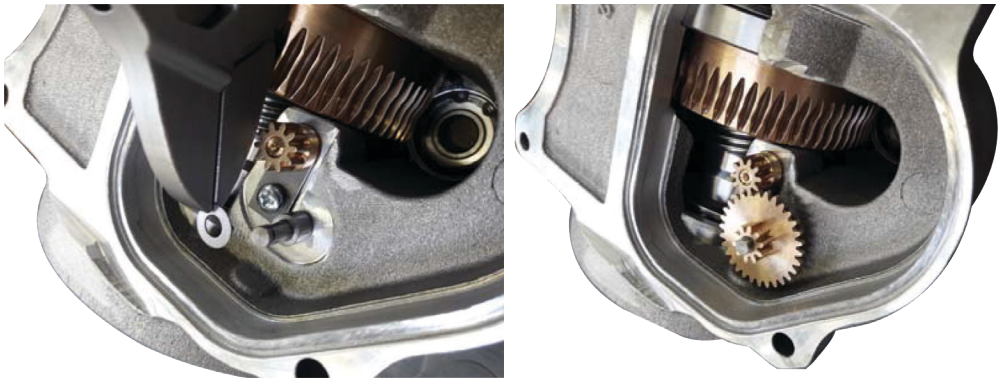
4. Mount the pinion back on the shaft and secure it with the worm screw.

Figure 5



5. Place the washer on the shaft and afterwards put the pinion on it.

Figure 6



6. Secure the pinion with a clipper.

Figure 7

7. Make sure that this gear is rotating well by turning the handwheel.
8. Assemble both housings together, making sure the pinions from the electrical and mechanical housings interlock correctly.

9. Parameter configuration

   — Go to System parameters P19.1 and enter password (the password is different for each actuator).

   — For standard SmartTool License Users, please consult Emerson Sales Team for Smart Key to change the parameters.

A. Change from 100 to 300 revolutions per stroke

Table 1. P19.10

Old value	New value
4	5
9	10
12	13
16	17

Table 2. P19.11

Old value	New value
0	1

B. Change from 300 to 100 revolutions per stroke

Table 3. P19.10

Old value	New value
5	4
10	9
13	12
17	16

Table 4. P19.11

Old value	New value
1	0

C. Parameter P19.10 actuator type references

Table 5. P19.10

4	CM06 up 100U BLDC 9.3
5	CM06 more than 100U BLDC 9.3
9	CM06 up 100U BLDC 8.3
10	CM06 more than 100U BLDC 8.3
12	CM06 24V up 100U BLDC 9.1
13	CM06 24V more than 100U BLDC 9.1
16	CM06 up 100U BLDC 10.3
17	CM06 more than 100U BLDC 10.3

10. Set end limits.

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#01-02 Singapore 629361
T +65 6777 8211

No. 1 Lai Yuan Road
Wuqing Development Area
Tianjin 301700
P. R. China
T +86 22 8212 3300

MIDDLE EAST & AFRICA

P. O. Box 17033
Jebel Ali Free Zone
Dubai
T +971 4 811 8100

P. O. Box 10305
Jubail 31961
Saudi Arabia
T +966 3 340 8650

24 Angus Crescent
Longmeadow Business Estate East
P.O. Box 6908 Greenstone
1616 Modderfontein Extension 5
South Africa
T +27 11 451 3700

EUROPE

Holland Fasor 6
Székesfehérvár 8000
Hungary
T +36 22 53 09 50

Strada Biffi 165
29017 Fiorenzuola d'Arda (PC)
Italy
T +39 0523 944 411

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