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Responsible person: Ing. Jan Vavřín

Subject: Front landing gear leg drag stay replacement

Classification: **NOTIFICATION**

Applicability: Ellipse spirit RG up to S/N: 55/2021

Date of issue: 27.7.2022

Urgency: Optional action – not time limited

Reason: The change consist of front landing gear leg drag stay replacement for newly designed drag stay which enables simpler adjustment and degrease loads acting on leg actuator.

Action: Aircraft should be lifted of the ground to enable free movement of the landing gear (extending and retracting).
Remove both engine covers.
Disconnect front leg actuator from drag stay (figure 1 – A)
Remove screws B1, B2 and B3 and uninstall entire drag stay (parts C (RGA-104-04-00) and D (RGA-104-05-00))

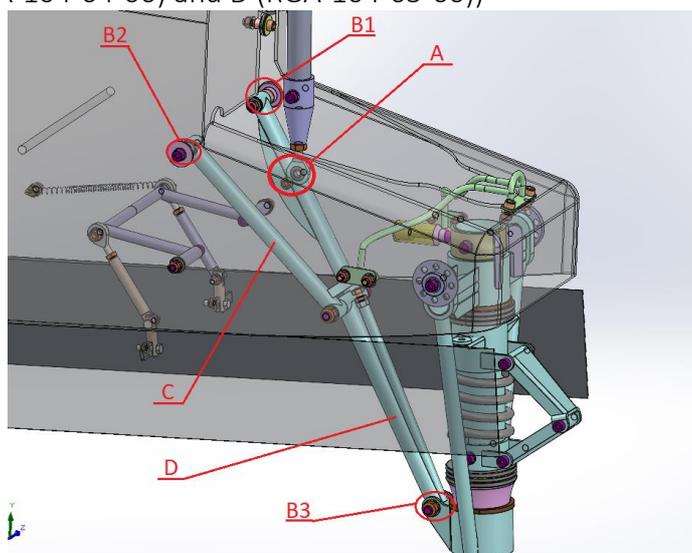


Figure 1 - original drag stay



Install new drag stay according figure 2. New parts A (RGA-104-41-00), B (RGA-104-41-00) should be installed. Housings C1 and C2 (RGA-104-19-00) must be replaced for longer version. Original screws in position C1 and C2 replace for new longer screws M6x60 DIN 912.

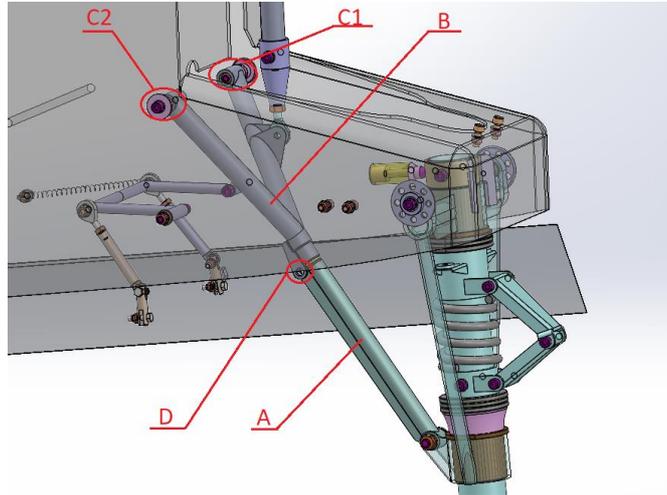


Figure 2 New drag stay

Finally connect part B with electric actuator. Length of actuator fitting must be adjusted as follows: When the actuator is fully extended the drag stay must be in locked position according figure 3.

Note 1: All self-locking nuts should be changed for new one during drag stay final installation.

Note 2: New drag stay must be installed together with new housing (RGA-104-42-00) in position D Figure 2.

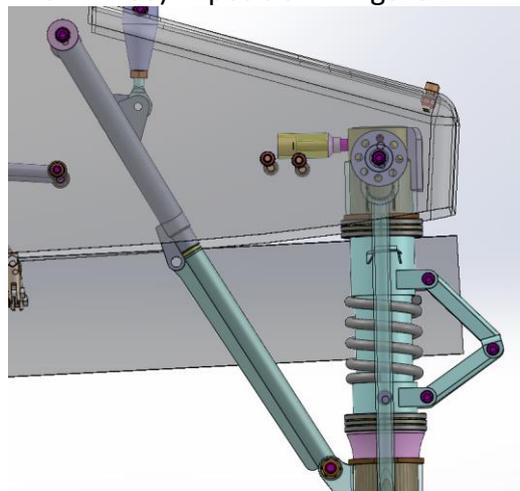


Figure 3 Drag stay locked position



Material and Drawings:

New parts:

1x RGA-104-40-00

1x RGA-104-41-00

1x RGA-104-42-00

2x RGA-104-19-00

New connecting material:

2x Screw M6x60 DIN912

1x Screw M6x25 DIN912

4x Washer M6 DIN125A

4x Self-locking Nut M6 DIN985

Mass and Balance:

Not affected

Notes:

The drag stay change should be performed only by qualified personnel or by ellipse spirit manufacturer.