

SERVICE BULLETIN

Mandatory

Page 1 of 4
Supersedes SB No 41

ELEVATOR DRIVE SHAFT ASSY

1. Planning Information

1.1 Effectivity

- Models:

AS 202/15, AS 202/15-1

AS 202/18, AS 202/18-1

- Ser. Nos.

S/N 001 to 135

(Excluding S/N 105 and 106 and Airplanes on which the black elevator drive shaft assy has already been replaced since 1988 by the grey painted one)

1.2 Reason:

Corrosion in the tube including the welding inside edge

1.3 Description:

Removal of elevator drive shaft assembly and installation of shaft assy with improved surface treatment

1.4 Compliance:

Within 10 hours time in service but not later than June 15, 1991

1.5 Approval:

Approved by the Swiss Federal Air Office as Airworthiness Directive

1.6 Manpower:

Approx. 5 man-hours

1.7 Material:

Available from FFA

1.8 Tooling:

No special tools are required

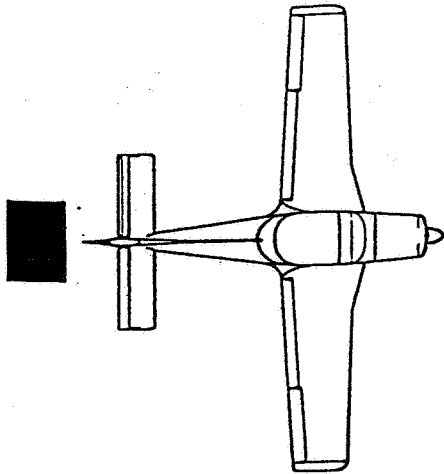
1.9 Weight and Balance: not affected

1.10 Electrical load data: not affected

1.11 Reference to other publications:

AMM / IPC, chapter 27-31-04, 27-31-05
55-20-01, 50-50-01
55-20-02

SERVICE BULLETIN



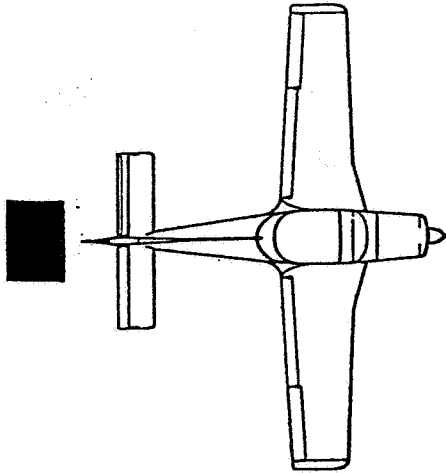
2. Accomplishment Instructions

2.1 Remove

- Remove left cover 202-17.505.11 and right cover 202-17.505.12 on the rear of the fuselage
- Disconnect the elevator steering rod from lever on the drive shaft assy
- Remove covering 202-17.479 of the bearings on the left elevator
- Disconnect the attachment of left elevator on the drive shaft assy
- Remove hinge bolts on the left elevator and carefully remove the left elevator
- Disconnect the middle hinge bolt on the drive shaft assy
- Disconnect the attachment of right elevator on the drive shaft assy and remove the drive shaft assy

2.2 Installation

- Install the replacement drive shaft assy on the right elevator, see IPC 55-20-01 Page 0, lock the bolts with locking plate and locking wire
- Install the middle hinge bolt on the drive shaft assy, see IPC 55-50-01 Page 0, lock the castellated nut with cotter pin MS 24665-151
- Install the left elevator in position, connect the hinge bolts, see IPC 55-50-01 Page 0, lock the castellated nuts with cotter pin MS 24665-151



SERVICE BULLETIN

Page 3 of 4

- Attach the left elevator on the drive shaft assy, see IPC 55-20-01 Page 0, lock the bolts with locking plate and locking wire
- Attach the elevator steering rod on the lever of drive shaft assy, see IPC 27-31-04 Page 0 or 27-31-05 Page 0. Lock the castellated nut with cotter pin MS 24665-153
- Install the cover 202-17.479 at the bearings on the left elevator, see IPC 55-20-02 Page 0
- Install the left cover 202-17.505.11 and right cover 202-17.505.12 rear on the fuselage

2.3 Test

- Check the elevator deflection:

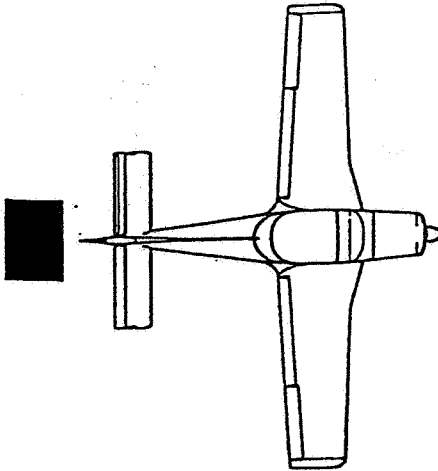
For 150 HP airplanes:

up $30^{\circ} \pm 1^{\circ}$
down $20^{\circ} \pm 1^{\circ}$

For 180 HP airplanes:

up $30^{\circ} \pm 1^{\circ}$
down $30^{\circ} \pm 1^{\circ}$

SERVICE BULLETIN



3. Material

For completion of this Service Bulletin the following material is necessary:

- 1 piece Elevator drive shaft assy 202-17.450
- 1 piece Cotter pin MS 24665-153
- 2 pieces Cotter pin MS 24665-151
- 2 pieces Locking wire MS 20995-NC32
(length approx. 12" $\hat{=}$ 300 mm)
- 2 pieces Locking plate 202-17.475

The accomplishment of this Service Bulletin should be recorded in the technical document of the airplane.