

# TECHNICAL SERVICE BULLETIN: 104756-000

## Cessna 182 Pitch Servo Capstan Position, Rev A

Original Bulletin: July 21, 2023

PLEASE READ THIS BULLETIN IN ITS ENTIRETY BEFORE CONTACTING DYNON AVIONICS

### Description

Dynon learned that the pitch servo capstan may be out of position in Cessna 182 models with fixed landing gear. Although Dynon has received no reports of any such out-of-position capstans in the field, this bulletin provides details on how to check, and if necessary, fix an out-of-position pitch servo capstan.

### Applicability and Affected Equipment

This bulletin only affects the following certified aircraft models.

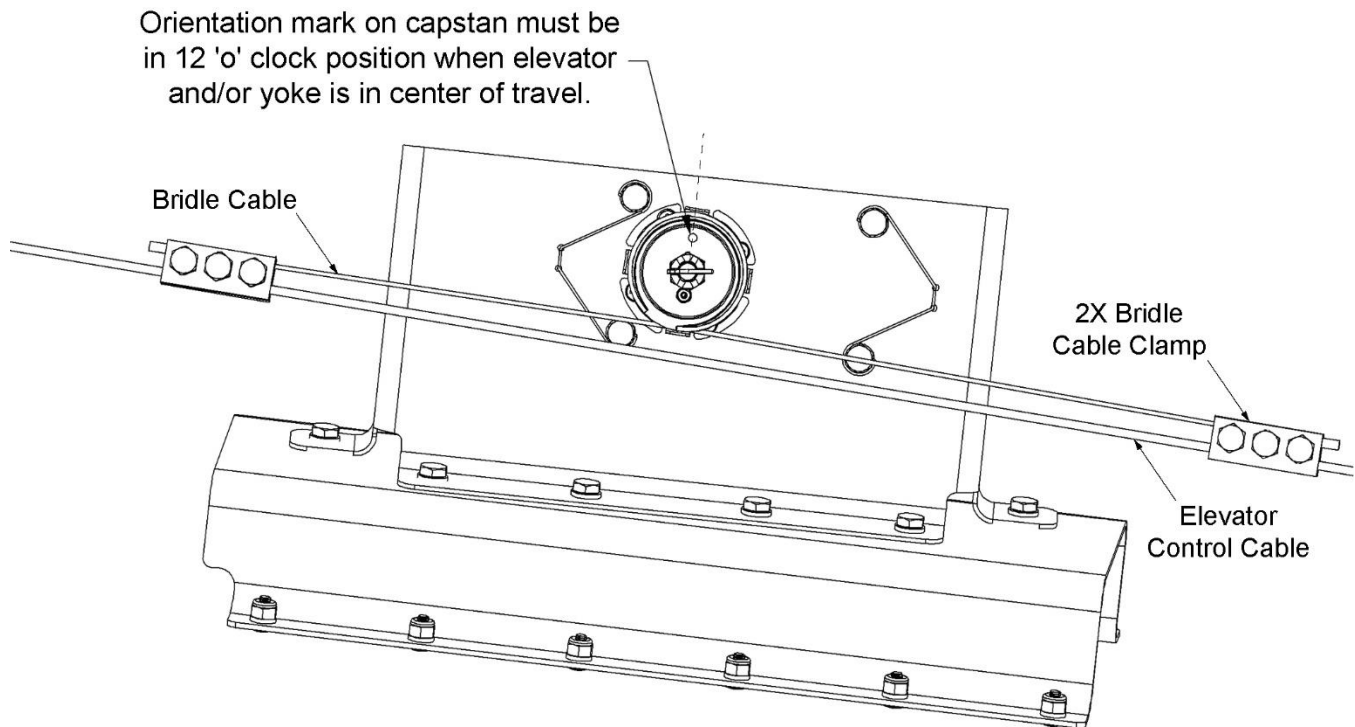
- Cessna 182 models with fixed landing gear and a pitch servo installation.

### Required Actions

Within 10 flight hours, check pitch servo capstan as detailed below.

#### **Check pitch servo capstan position:**

1. Secure elevator and/or yoke in center of travel.
2. Disconnect aircraft power.
3. Access pitch servo installation between FS172 and FS185 in accordance with manufacturer's service manual.
4. If required for access, remove aircraft battery in accordance with manufacturer's service manual.
5. Visually inspect pitch servo installation and ensure capstan is positioned as shown in [Figure 1](#).



**Figure 1: Correct Pitch Servo Capstan Installation**

6. If pitch servo capstan is positioned as shown in [Figure 1](#), no further action is required.
7. If pitch servo capstan is not positioned as shown in [Figure 1](#), the aircraft is to be considered grounded until pitch servo capstan is positioned correctly (see procedure below).

The following action must be performed by an appropriately-rated certified technician and must be entered into the aircraft records showing compliance with this service bulletin in accordance with 14 CFR 43.9(a) and the instructions in this service bulletin. The record must be maintained as required by 14 CFR 91.417.

**Adjust pitch servo capstan position:**

1. Secure elevator and/or yoke in center of travel.
2. Disconnect aircraft power.
3. Access pitch servo installation between FS172 and FS185 in accordance with manufacturer's service manual.
4. If required for access, remove aircraft battery in accordance with manufacturer's service manual.
5. Secure (e.g., tape) bridle cable ([Figure 1](#)) to capstan to prevent unwrapping.
6. Loosen, but do not remove, cable clamps ([Figure 1](#)) to disconnect bridle cable from the elevator control cable.
7. Loosen bridle cable tension around capstan, but do not let bridle cable unwrap.
8. Rotate capstan until orientation mark is in 12 'o' clock position ([Figure 1](#)).
9. Tension and connect bridle cable to elevator control cable per instructions Section 7.3.1: Fixed Landing Gear Airplanes\*.
10. Check installation per instructions Section 7.3.1: Fixed Landing Gear Airplanes\*.
11. If installation does not pass check, contact Dynon Certified Technical Support at [dynoncertified.com/contact](http://dynoncertified.com/contact) for a solution.
12. Perform servo calibration per instructions in Section 11.2: Calibration Procedure\*.
13. Report compliance of this service bulletin to Dynon Certified Technical Support at [dynoncertified.com/contact](http://dynoncertified.com/contact).

\* See the *Autopilot Servo Installation and Maintenance Manual, Cessna 182, Rev F* document at [dynoncertified.com/docs](http://dynoncertified.com/docs).

## Time in Effect

This technical service bulletin is in effect indefinitely.

## Additional Questions?

Contact Dynon Certified Technical Support at [dynoncertified.com/contact](https://dynoncertified.com/contact).