

REVISION	CHANGE	APPROVED	DATE
1	Published release	JTS	27/11/2025

**Airmaster**

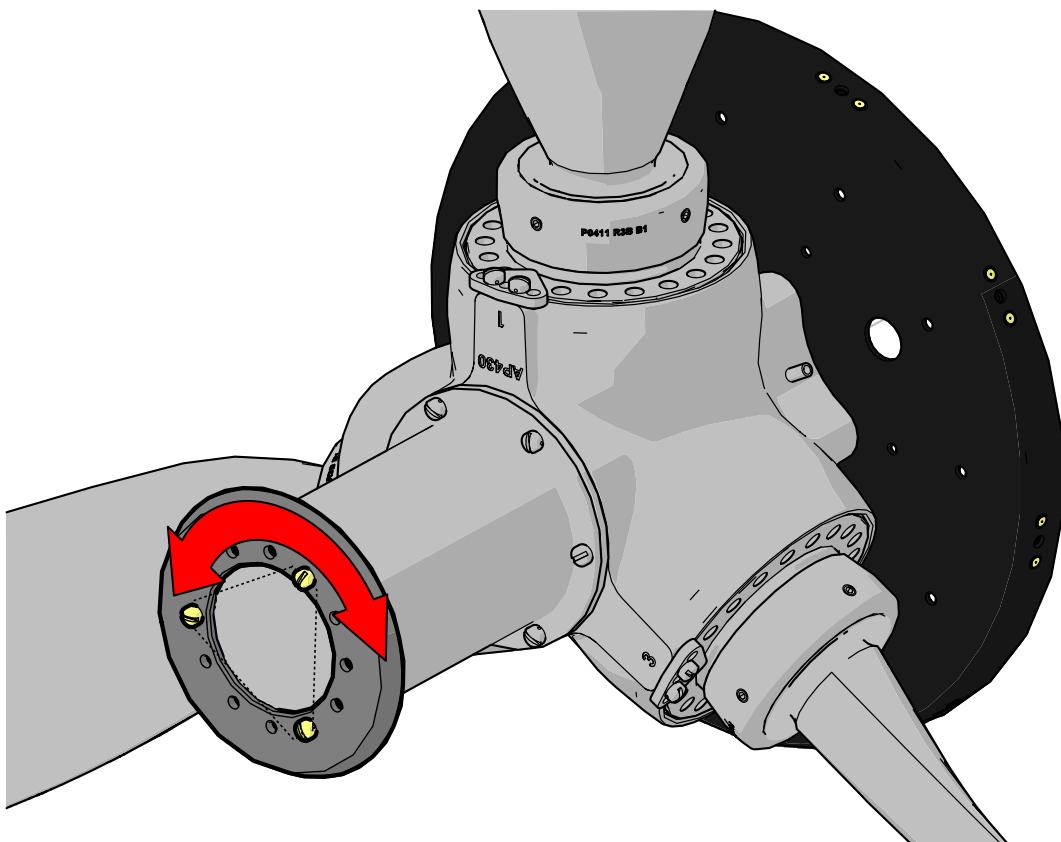
Airmaster Propellers Ltd  
20 Haszard Rd, Massey,  
Auckland 0614, NZ

Phone: (+64) 9 833 1794  
E-mail: [support@propeller.com](mailto:support@propeller.com)  
Web: [www.propeller.com](http://www.propeller.com)

**ASI-4-7-2**

# **SPINNER CONE (FRONT SUPPORT) ADJUSTMENT**

## **PROCEDURE**



### **SUBJECT:**

Spinner Installation

**ASSEMBLY NO:**

AS-xxx

**APPLICABILITY:**

All propeller models

## 1. TOPIC

### 1.1 Introduction

This document covers the procedure for adjusting the spinner front support for an Airmaster propeller, to achieve the correct fore-and-aft position of the spinner cone.

Installers must check the fitting of the spinner cone beforehand. The spinner cone is deemed to be properly fitted when its mounting holes align concentrically with the corresponding holes in the spinner backplate, and any free play or 'slop' in the spinner cone is just eliminated.

### 1.2 Prerequisites

Complete the following tasks before proceeding:

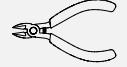
- Mount hub to engine flange in accordance with the applicable installation procedure.
- Install blade assemblies in accordance with procedure **ASI-4-6**.
- Check spinner cone fitting in accordance with procedure **ASI-4-7-1**.

## 2. MATERIAL REQUIREMENTS

### 2.1 Parts

ITEM	QTY	PART NO.	DESCRIPTION	IMAGE
1.	1	AS-xxx	Airmaster Spinner Assembly	

### 2.2 Tooling

ITEM	QTY	DESCRIPTION	IMAGE
1.	1	Flathead Screwdriver	
2.	1	Twist Pliers	
3.	1	Wire Cutter	

### 2.3 Consumables

ITEM	QTY	DESCRIPTION	IMAGE
1.	As required	0.025" Stainless Steel Lockwire (Safety Wire)	

### 2.4 Paperwork

ITEM	QTY	CODE	DESCRIPTION
1.	1	AS-xxx	Airmaster Spinner Assembly Drawing & BoM

### 3. PROCEDURE

**⚠ WARNING** Ensure that aircraft power is turned off throughout this procedure.

**ⓘ Note**

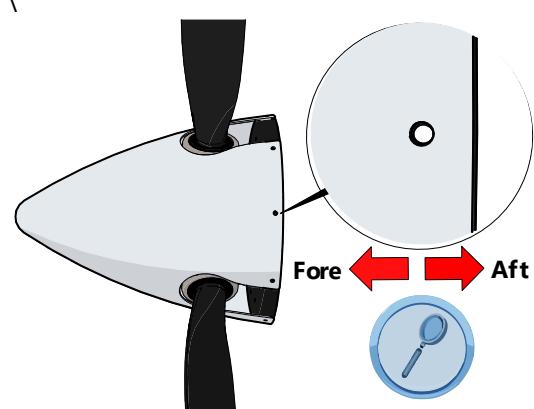
Generally, new propellers are supplied with the front support pre-fitted for the spinner cone at the factory. However, installers should verify spinner cone fitting during initial installation of the propeller and at periodic inspection intervals, or whenever any of the spinner assembly components are replaced. Failing to fit the spinner cone properly may lead to crack propagation.

#### 3.1 Unlock Spinner Front Support

##### PROCEDURE

###### Step 1 Preparation

- Check spinner cone fitting in accordance with procedure **ASI-4-7-1**.
- If required, note whether spinner cone must be adjusted in the fore or aft direction.

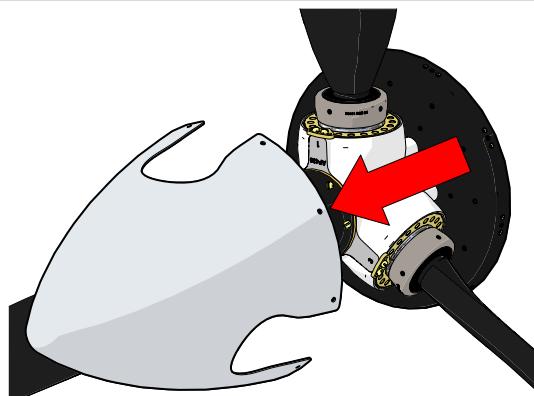


###### Step 2 Remove Spinner Cone

- Remove spinner cone from backplate and set aside.

**⚠ Caution**

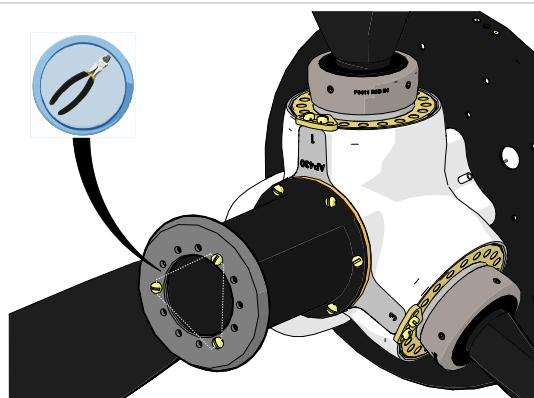
Polished spinner cones are easily marked. A soft cloth or gloves are recommended when handling spinner cones with this type of finish.



###### Step 3 Remove Lockwire (As Required)

- If applicable, remove any lockwire securing the (3) front support screws.

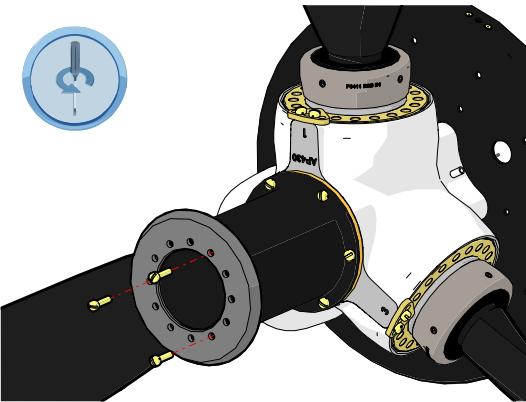
**ⓘ Attention** Wire cutter



### Step 4 Remove Screws

- Remove (3) screws (P0107) retaining front support to motor cap.

 **Attention** Flathead screwdriver



## 3.2 Adjust Spinner Front Support

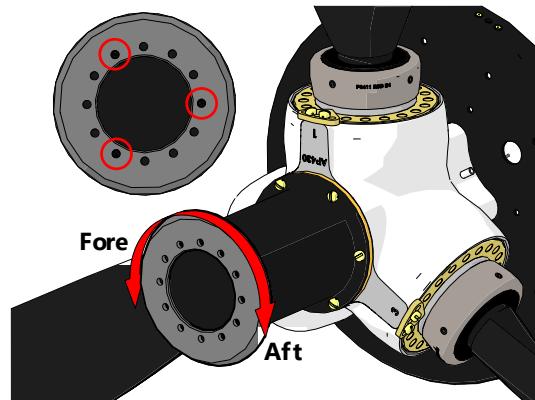
### PROCEDURE

#### Step 1 Adjust Front Support

- Rotate front support incrementally in the direction required as follows:
  - To adjust spinner cone in **fore** direction: rotate the front support **CCW**.
  - To adjust spinner cone in **aft** direction: rotate the front support **CW**.

 **Note**

After making an adjustment, ensure that holes in front support align with the three threaded holes in the motor cap.



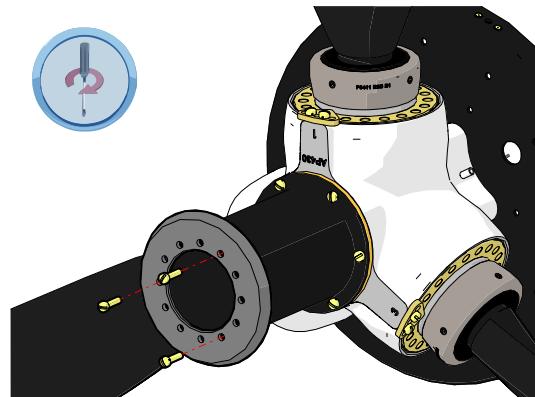
#### Step 2 Lock Front Support

- Lock front support in new position with (3) fillister-head screws (P0107).
- Torque screws to **0.5Nm (0.4ft-lbs)** ensuring that alignment of drilled heads will enable lock-wiring.

 **Caution**

Do not over-tighten front support screws as this can stress-deform the front support.

 **Attention** Flathead screwdriver

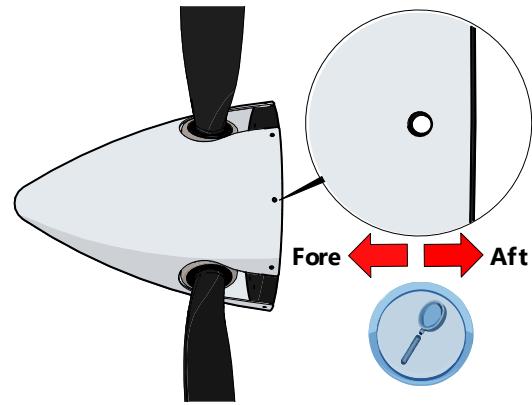


### Step 3 Recheck Spinner Cone Fit

- Refit spinner cone to backplate and check fitting in accordance with procedure **ASI-4-7-1**.
- Repeat front support adjustments as necessary until spinner cone is properly fitted.

**Note**

*The spinner cone is deemed properly fitted when its mounting holes align concentrically with the corresponding holes in the spinner backplate, and any free play in the spinner cone is just eliminated.*

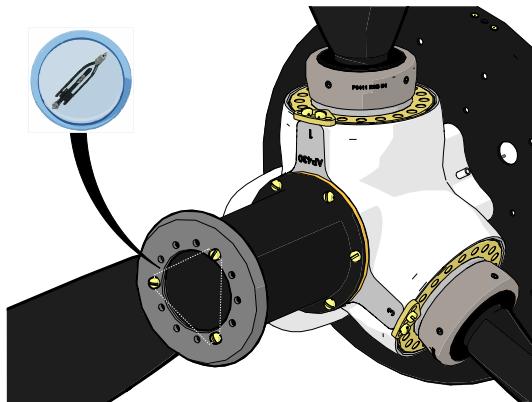


### Step 4 Lockwire Front Support Screws

- Lockwire (3) front support screws (P0107). The single-wire method is acceptable.

**Attention**

*Twist pliers, 0.025" S.S lockwire, Wire cutter*



### 3.3 Subsequent Action

Perform the following tasks once this procedure is complete:

- Attach spinner cone to backplate in accordance with procedure **ASI-4-7-1**.