

REVISION	CHANGE	APPROVED	DATE
1	Published release	JTS	26/11/2025

**Airmaster**

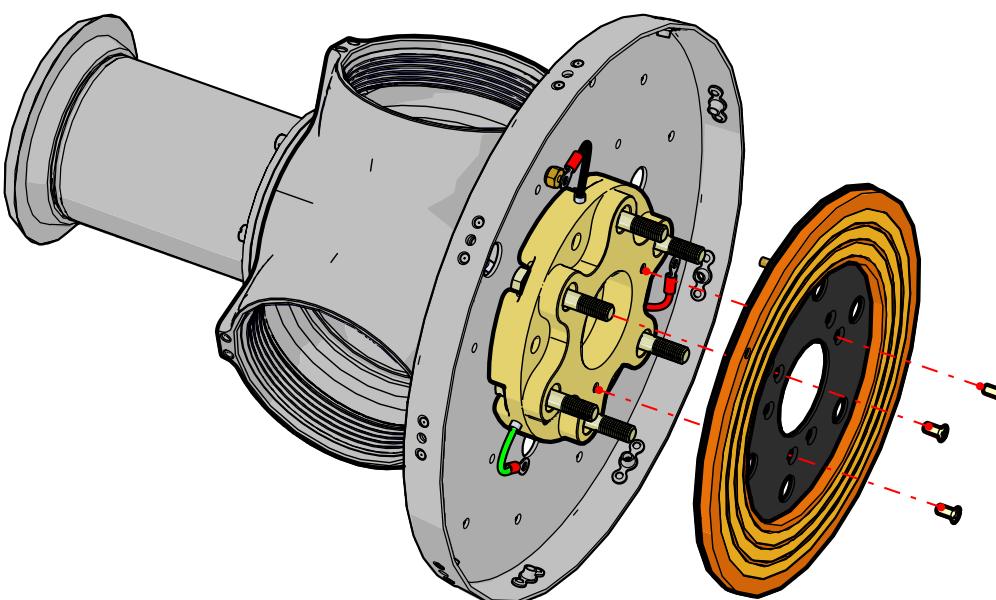
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**ASI-4-3-2-3**

# STANDARD SLIRPING INSTALLATION (WITH ADAPTER)

## PROCEDURE



### **SUBJECT:**

Slipring Installation

### **ASSEMBLY NO:**

AR-xxx | AE-xAPx

### **APPLICABILITY:**

All propeller models using a standard slipring assembly and (plated) adapter assembly

## 1. TOPIC

### 1.1 Introduction

This document covers the procedure for fitting an Airmaster standard slirping assembly to a plated adapter kit assembly. Installers must complete this task before mounting the hub to the engine flange.

The standard slirping is usually mounted to the spinner backplate, but in some cases, it must be fitted to the adapter assembly to make contact with the sensor-brush block. In these cases, the slirping is secured to a dedicated mount plate, which the installer must attach to the adapter assembly before installing the propeller.

### 1.2 Prerequisites

Complete the following tasks before proceeding:

- Verify that standard slirping should be fitted to the adapter assembly, as indicated by:
  - The letter **P** (“plated”) is denoted in the adapter assembly number (e.g. AE-RAP2.0).
  - The adapter assembly includes electrical wiring.
  - A slirping mount plate (*P0299*) is supplied with the adapter assembly.
- Attach adapter assembly to hub in accordance with procedure **ASI-4-2-2**. Ensure that engine flange mounting bolts are inserted through the adapter assembly beforehand.
- Attach standard slirping assembly to slirping mounting plate (*P0299*) in accordance with procedure **ASI-4-3-2-1**.

 **Note**

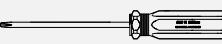
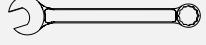
*Generally, new propellers are supplied with the slirping attached to the mount plate when applicable.*

## 2. MATERIAL REQUIREMENTS

### 2.1 Parts

ITEM	QTY	PART NO.	DESCRIPTION	IMAGE
1.	1	AE-xAPx	Airmaster (plated) Adapter Assembly	
2.	1	AR-xxx	Airmaster Standard Slipring Assembly	

### 2.2 Tooling

ITEM	QTY	DESCRIPTION	IMAGE
1.	1	PH2 Screwdriver	
2.	1	Torque Screwdriver (PH2) [0.3Nm]	
3.	1	11/32" Spanner	
4.	1	Torque Screwdriver (11/32" Socket) [1.5Nm]	
5.	1	Heat Gun	

### 2.3 Consumables

ITEM	QTY	DESCRIPTION	IMAGE
1.	As required	Loctite 222	
2.	As required	Torque-Seal	
3.	1	Permanent Marker	

### 2.4 Paperwork

ITEM	QTY	CODE	DESCRIPTION
1.	1	AE-xAPx	Airmaster (Plated) Adapter Kit Assembly Drawing & BoM
2.	1	AR-xxx	Airmaster Slipring Assembly Drawing & BoM

### 2.5 PPE

ITEM	QTY	DESCRIPTION	IMAGE
1.	As required	Protective Gloves	

### 3. PROCEDURE

#### 3.1 Fit Slipring to Plated Adapter Assembly

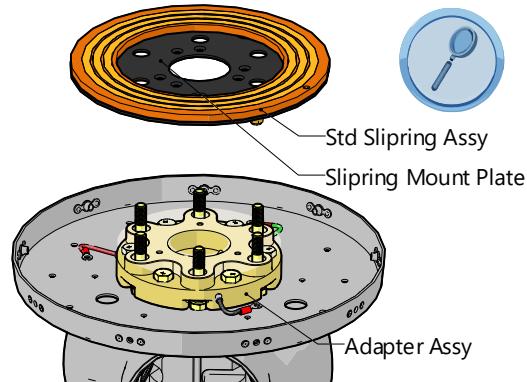
##### PROCEDURE

###### Step 1 Preparation

- Verify that all prerequisites are complete.
- Check mating face of adapter assembly and slipring mount plate are clean and free from damage or defect.
- Carefully rest propeller hub on motor cap (upside down) atop a flat, clean surface.

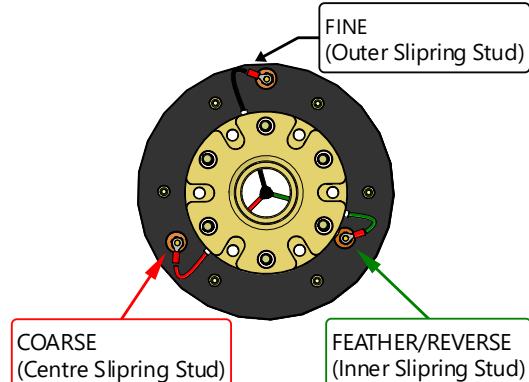
###### Caution

*Take care not to topple the hub. A temporary hub cradle may be fashioned using a piece of custom wood with a 100mm diameter circle in the centre and supporting legs.*



###### Step 2 Align Slipring Plate

- Align slipring with adapter assembly as follows:
  - Align (3) slipring studs with corresponding wire from adapter assembly.
  - Align (3) countersunk holes in slipring mount plate with threaded holes in adapter assembly.

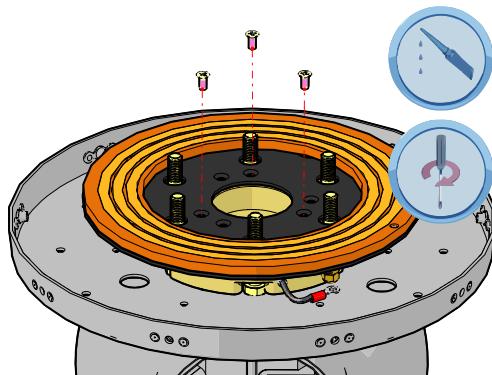


###### Step 3 Attach Slipring Plate

- Apply a thin stripe of Loctite 222 to the threads of (3) 8-32 UNC countersunk screws (P0178).
- Attach slipring mount plate to adapter assembly using these screws.
- Torque screws to **0.3Nm (0.2ft-lb)** and indicate with permanent marker line.

###### Attention

*Loctite 222, PH2 Torque screwdriver, Permanent marker*

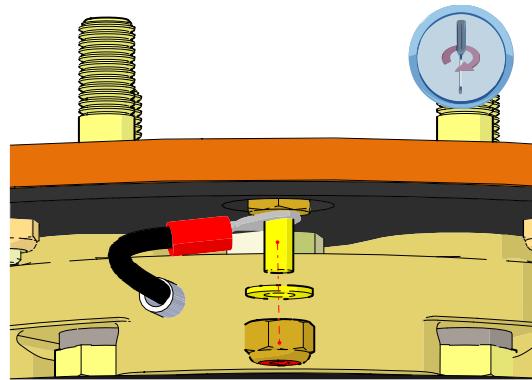


#### Step 4 Connect Wiring

- Fit ring terminals over slipring studs.
- Fit brass washer (P0232) over ring terminal.
- Secure with locknut (P0235) and torque to **1.5Nm (1.1ft-lbs)**.
- Indicate with torque-seal.

**!** *Attention*

*11/32" Spanner, Torque screwdriver (11/32" Socket), Torque-seal.*



#### 3.2 Subsequent Action

Perform the following tasks once this procedure is complete:

- Mount hub to engine flange in accordance with procedure **ASI-4-4-3**.