

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

Airmaster

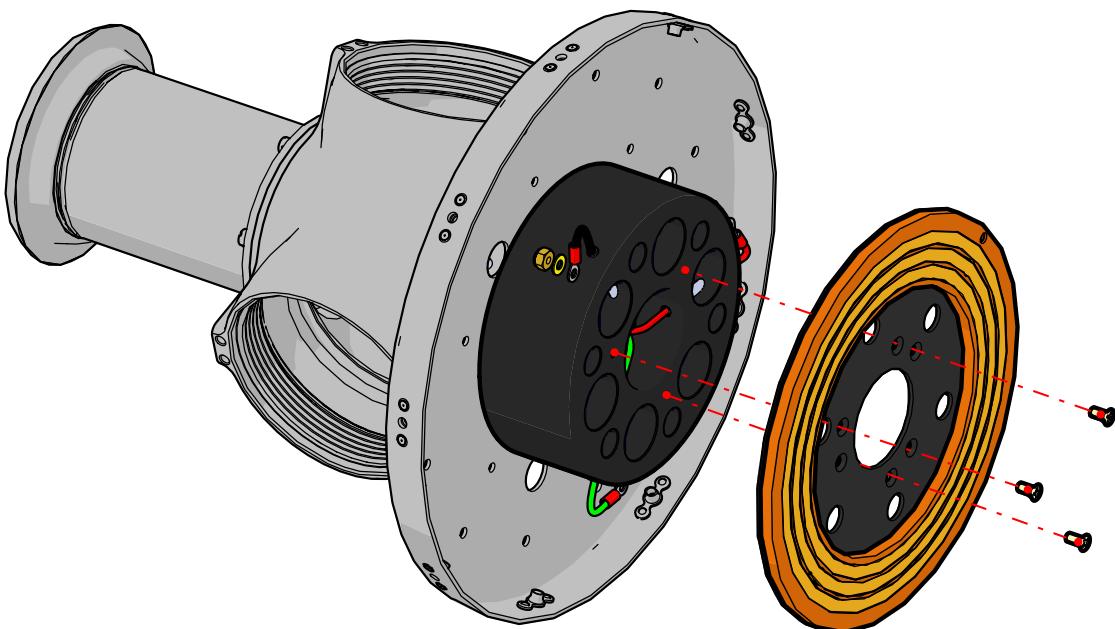
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ASI-4-3-2-2

STANDARD SLIPRING INSTALLATION (WITH SPACER)

PROCEDURE



SUBJECT:

Slipring Installation

ASSEMBLY NO:

AR-xxx | AE-xSPxx

APPLICABILITY:

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

1. TOPIC

1.1 Introduction

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

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

1.2 Prerequisites

Complete the following tasks before proceeding:

- Verify that the standard sliring should be fitted to the spacer assembly, as indicated by:
 - The letter **P** (“plated”) is denoted in the spacer assembly number (e.g. AE-RSP2.0).
 - The spacer assembly incorporates electrical wiring.
 - A sliring mount plate (*P0299*) is supplied with the spacer assembly.
- Attach spacer assembly to hub in accordance with procedure **ASI-4-2-1**.
- Attach standard sliring to sliring mount plate (*P0299*) in accordance with procedure **ASI-4-3-2-1**

 **Note**

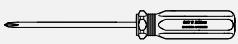
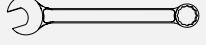
Generally, new propellers are supplied with the sliring attached to its mount plate when applicable.

2. MATERIAL REQUIREMENTS

2.1 Parts

ITEM	QTY	PART NO.	DESCRIPTION	IMAGE
1.	1	AE-xSPxx	Airmaster (Plated) Spacer 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-xSPxx	Airmaster (Plated) Spacer 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 Spacer Assembly

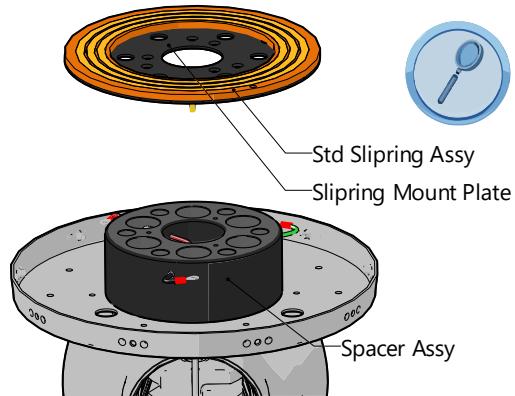
PROCEDURE

Step 1 Preparation

- Verify that all prerequisites are complete.
- Ensure that mating face of spacer 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.

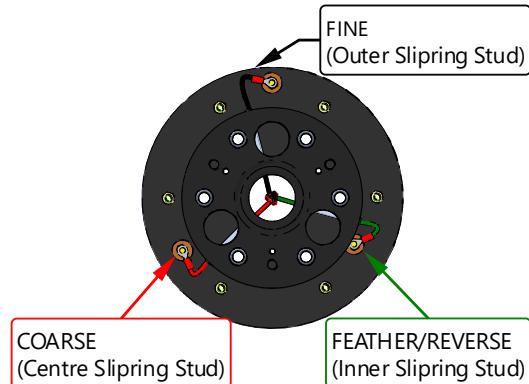
Caution

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

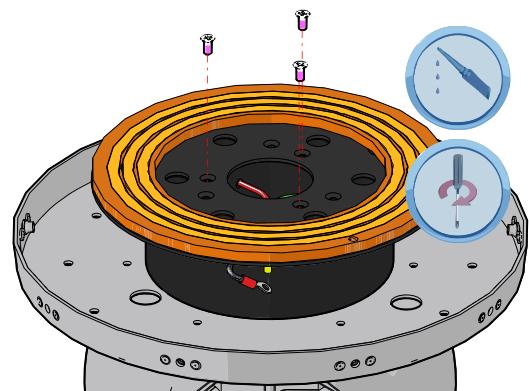


Step 3 Attach Slipring Plate

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

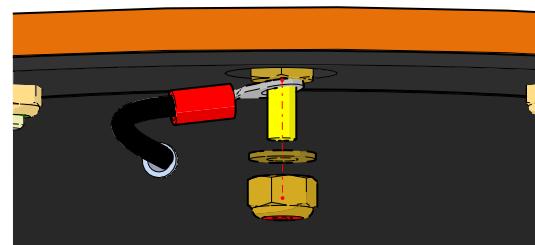
Attention

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.



① 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-4-4-2**.