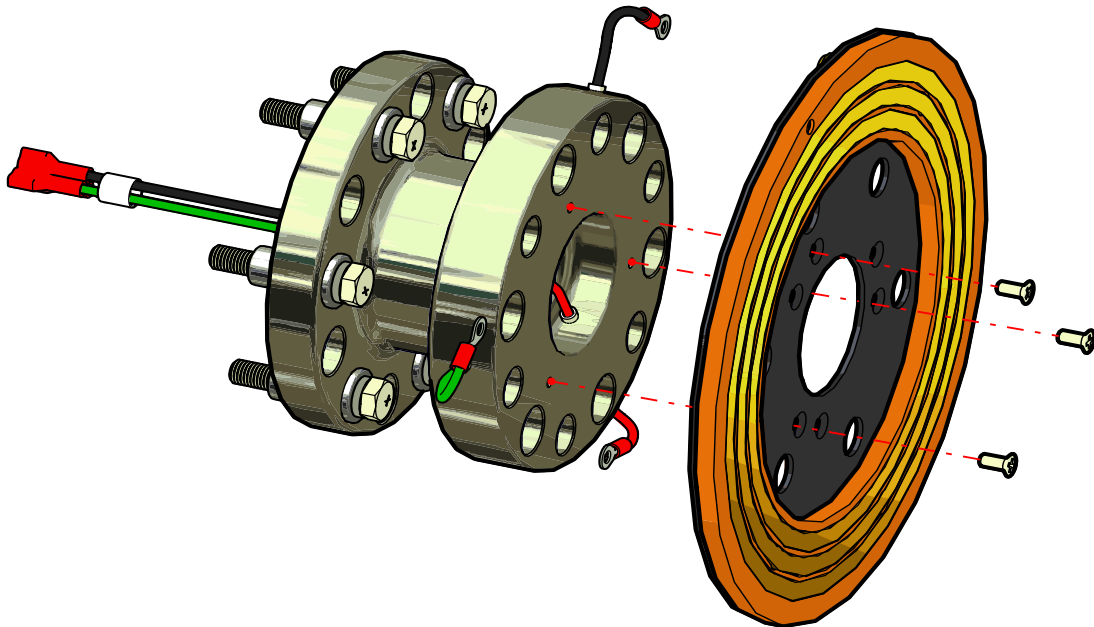


REVISION	CHANGE	APPROVED	DATE
1	Published release	JTS	26/11/2025

ASI-4-3-2-4

STANDARD SLIPRING INSTALLATION (WITH EXTENSION)

PROCEDURE



SUBJECT:

Slipring Installation

ASSEMBLY NO:

AR-xxx | AE-xEPx

APPLICABILITY:

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

1. TOPIC

1.1 Introduction

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

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

1.2 Prerequisites

Complete the following tasks before proceeding:



- Verify that the standard slipring should be fitted to the extension assembly, as indicated by:
 - The letter **P** (“plated”) is denoted in the extension assembly number (e.g. AE-REP2.0).
 - The extension assembly incorporates electrical wiring.
 - A slipring mount plate (P0299) is supplied with the extension assembly.
- Attach standard slipring assembly to slipring mount plate (P0299) in accordance with procedure **ASI-4-3-2-1**.

Note

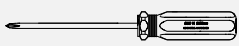
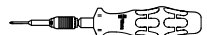
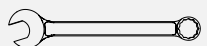


Generally, new propellers are supplied with the slipring attached to the mount plate when applicable.

2. MATERIAL REQUIREMENTS




2.1 Parts

ITEM	QTY	PART NO.	DESCRIPTION	IMAGE
1.	1	AE-xEPxx	Airmaster (plated) Extension 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-xEPx	Airmaster (Plated) Extension Kit Assembly Drawing & BoM
2.	1	AE-xxx	Airmaster Slipring Assembly Drawing & BoM

2.5 PPE

ITEM	QTY	DESCRIPTION	IMAGE
1.	As required	Protective Gloves	

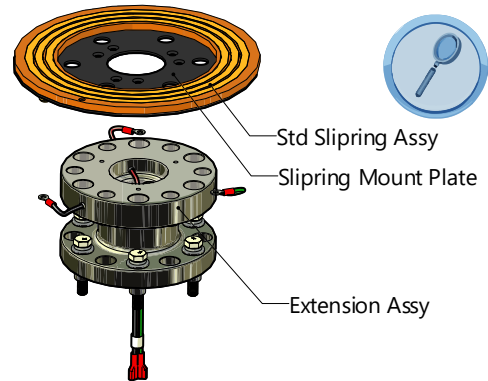
3. PROCEDURE

3.1 Fit Slipring to Plated Extension Assembly

PROCEDURE

Step 1 Preparation

- Verify that all prerequisites are complete.
- Ensure that mating face of extension assembly and slipring mount plate are clean and free from damage or defect.



Step 2 Insert Hub Mounting Bolts

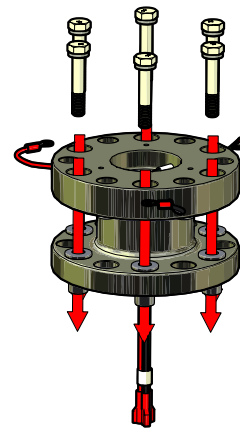
- Insert (6) hub mounting bolts with Nord-Lock® washer pairs through the extension assembly drive lugs (from engine-side).

Note

Refer to correct use of Nord-Lock® washers.

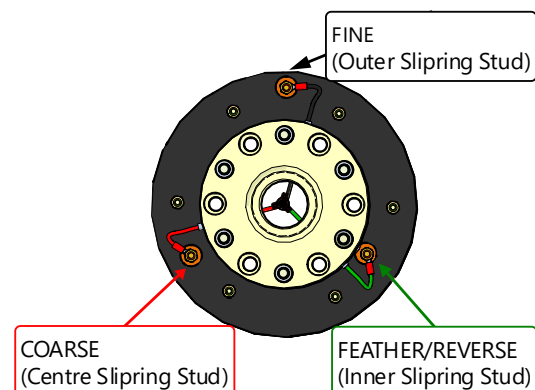
Note

For extensions assemblies shorter than 3inch, these bolts can't be inserted once the slipring is subsequently fitted to the extension assembly.



Step 3 Align Slipring Plate

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

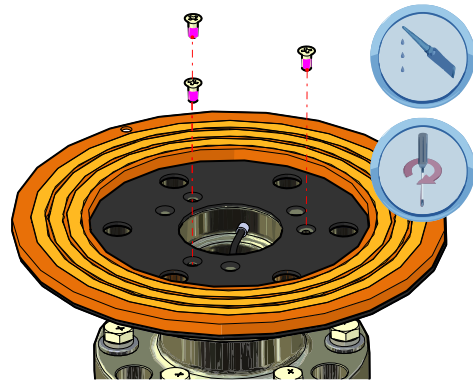


Step 4 Attach Slipring Plate

- Apply a thin stripe of Loctite 222 to the threads of (3) 8-32 UNC countersunk screws (P0178).
- Attach slipring mount plate to extension 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

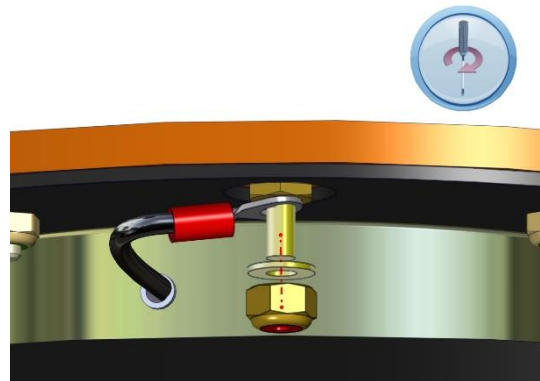


Step 5 Connect Wiring

- 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 extension assembly to engine flange in accordance with procedure **ASI-4-2-3**.
- Mount hub to extension assembly in accordance with procedure **ASI-4-4-4**.