



AG! USA, Inc.
an Asahi Glassplant, Inc. company

SPE & TFE
Magnetic Stir Bearing
Disassembling and Cleaning
Manual



Disassembly Procedures

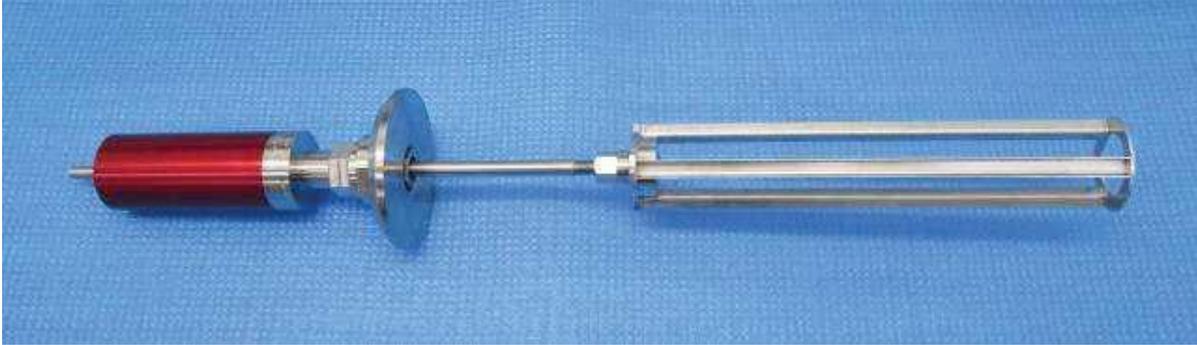
1-0 Tools Required

- Large Adjustable Wrench (for 30mm and 40mm nut sizes)
- Small Adjustable Wrench (for 22mm and 17mm nut sizes)
- Small Flat Head Screwdriver (3mm)
- Small Flat Head Screwdriver (5mm)
- O-Ring Pick Tool
- Soft Cleaning Brush

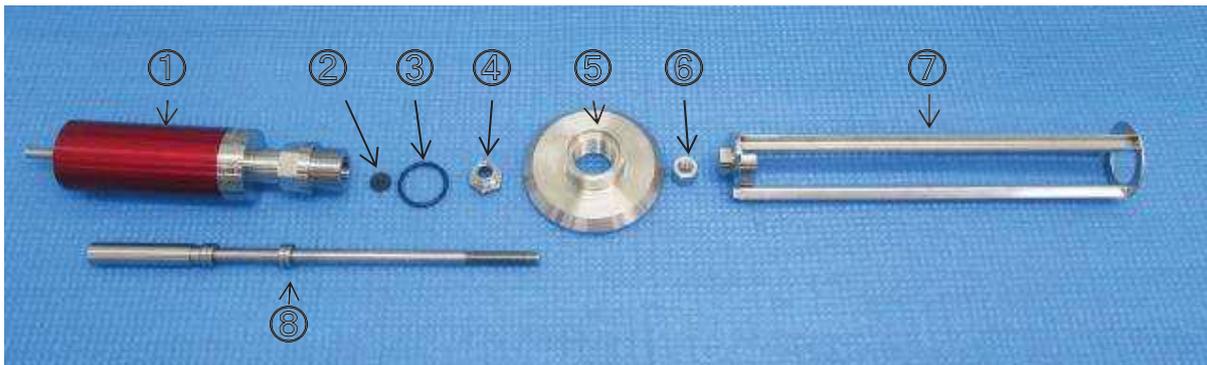
Disassembly Procedures

1-1 Component Part

Overall View



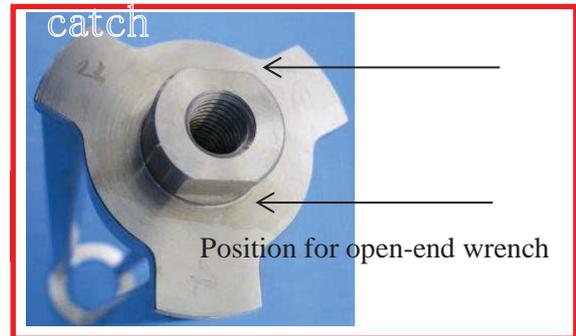
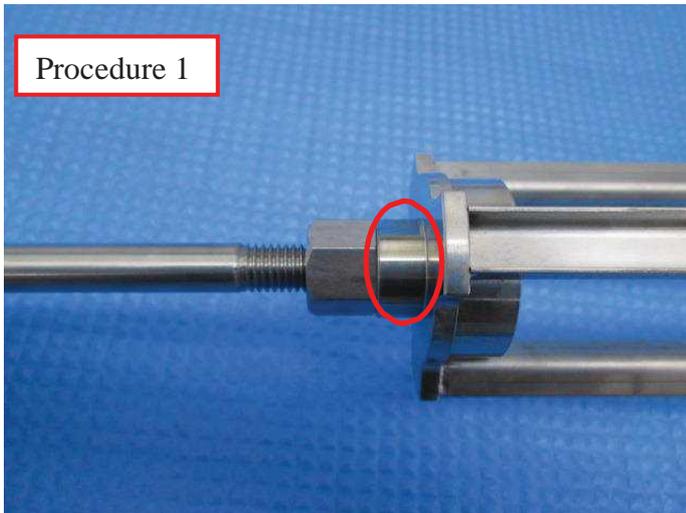
Breakdown Structure



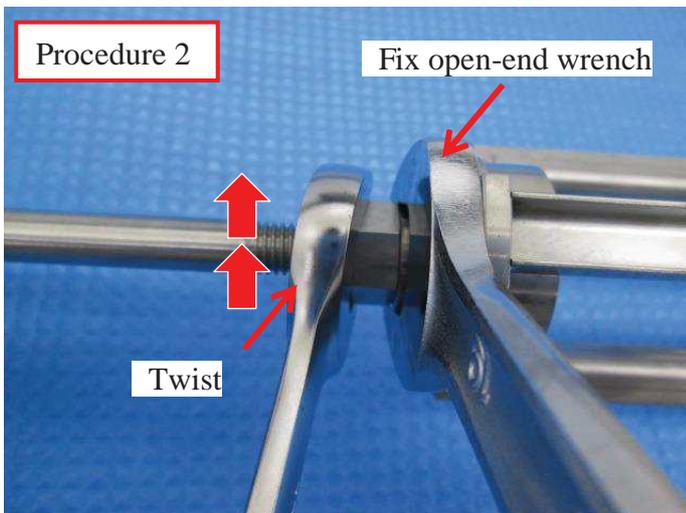
Number	Name
1	Casing
2	Disk
3	O-ring
4	Closing nut
5	Cover
6	Fixing nut for Wiper catch
7	Wiper catch
8	Shaft

Disassembly Procedures

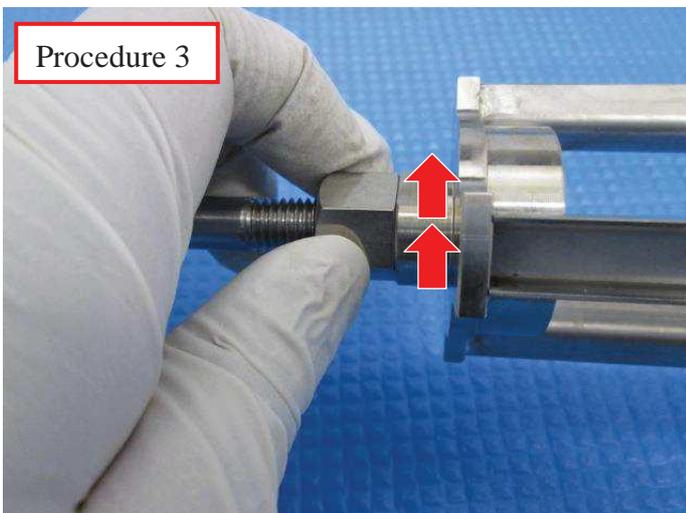
1-2 Disassembly Procedure of Wiper Catch



Make sure of position for open-end wrench



Hold Wiper catch and Fixing nut for wiper catch using wrench (17mm), loosen Fixing nut for Wiper catch.

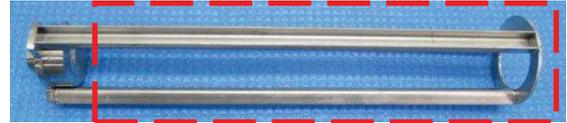
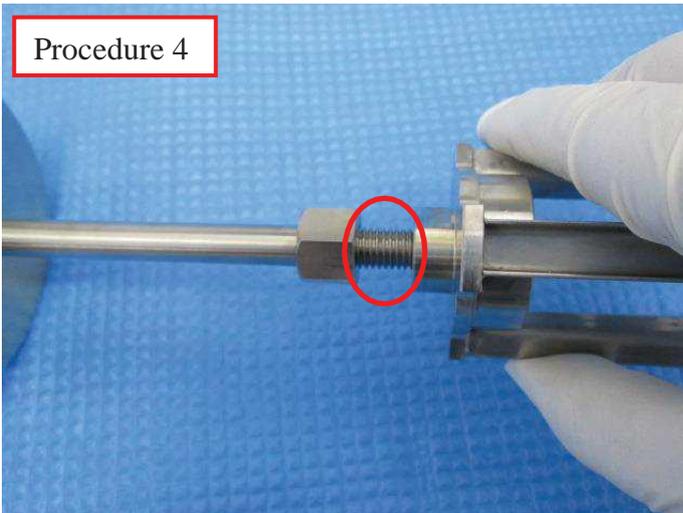


Hold and loosen Fixing nut for Wiper catch

Disassembly Procedures

1-2 Disassembly Procedures of Wiper Catch

Procedure 4

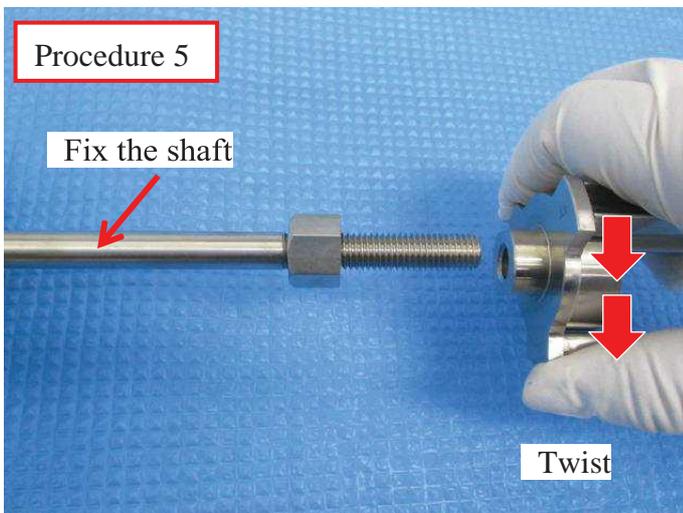


※Attention

Do not hold strong this part.
It might cause change of shape.

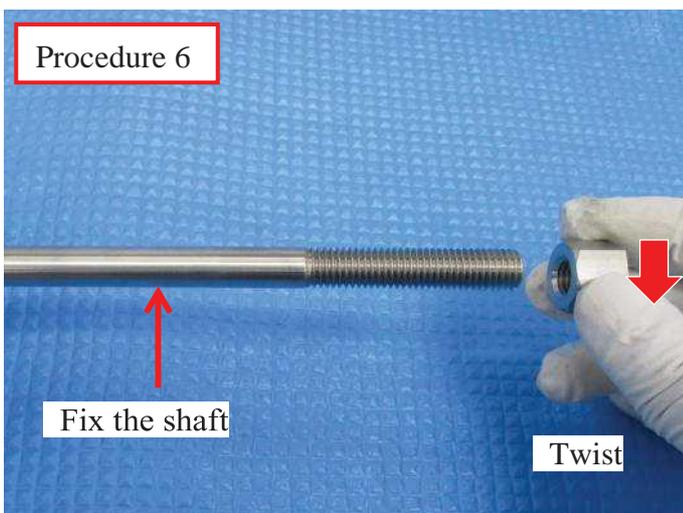
Make space between the Fixing nut
for Wiper catch and the Wiper
catch.

Procedure 5



Hold and fix the shaft,
then twist Wiper catch
to remove.

Procedure 6



Hold and fix the shaft,
then twist Fixing nut for Wiper
catch to remove it.

Disassembly Procedures

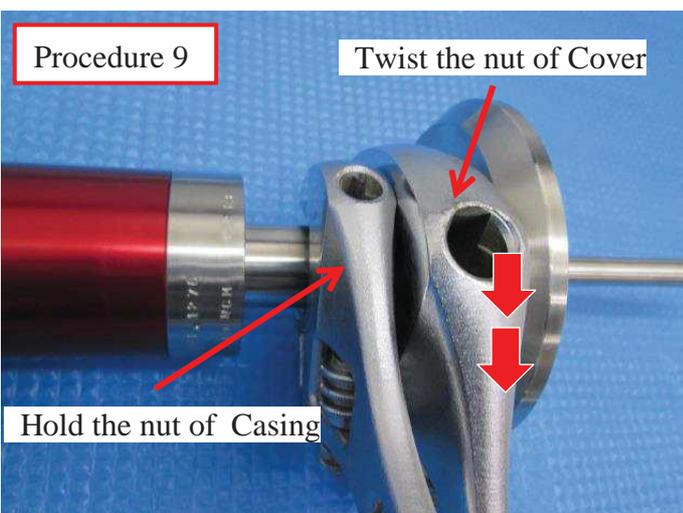
1-3 Disassembly Procedures of Main Body and Cover



Hold the nut of Cover using open-end wrench or adjustable wrench.



Hold the nut of Casing using open-end wrench or adjustable end wrench.



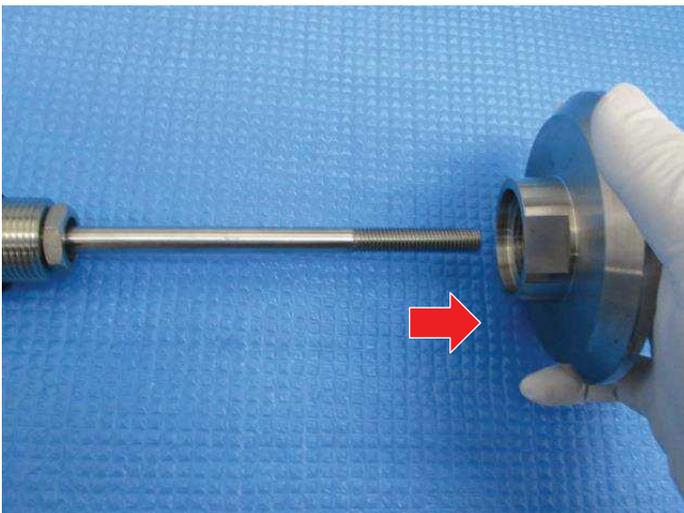
Hold the nut of Casing using open-end wrench or adjustable end wrench, then twist and loosen the nut of Cover

Disassembly Procedures

1-3 Disassembly Procedure of Main Body and Cover



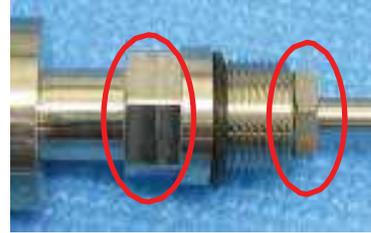
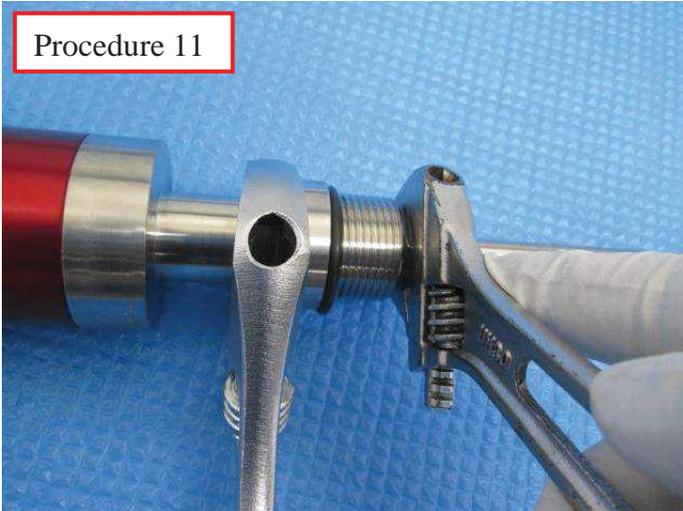
Remove Cover from Casing.



Disassembly Procedures

1-4 Disassembly Procedure of Casing and Shaft

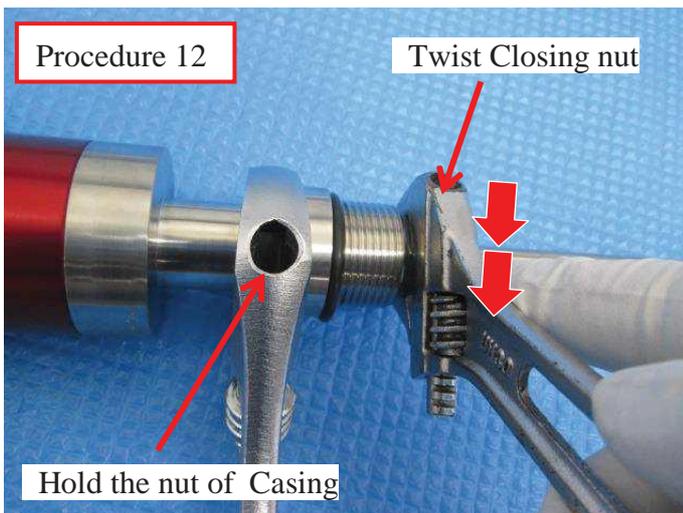
Procedure 11



Position for wrench

Hold Closing nut and nut of Casing using open-end wrench or adjustable end wrench.

Procedure 12



Hold the nut of Casing using open-end wrench, or adjustable end wrench, then twist and loosen Closing nut using adjustable end wrench.

Procedure 13

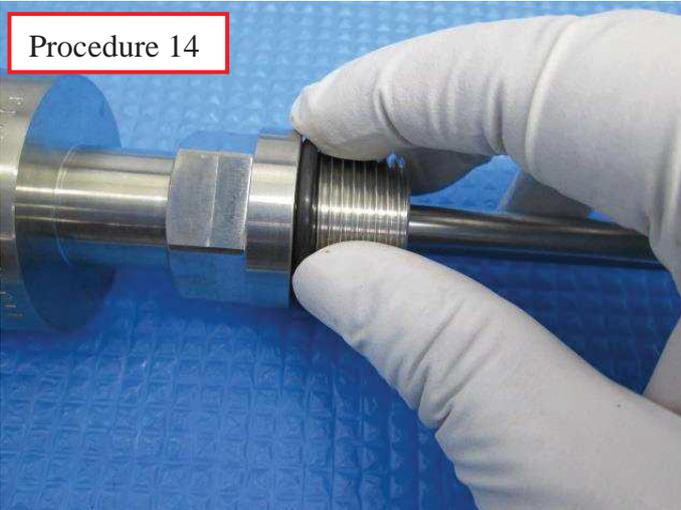


Remove Closing nut from Casing.

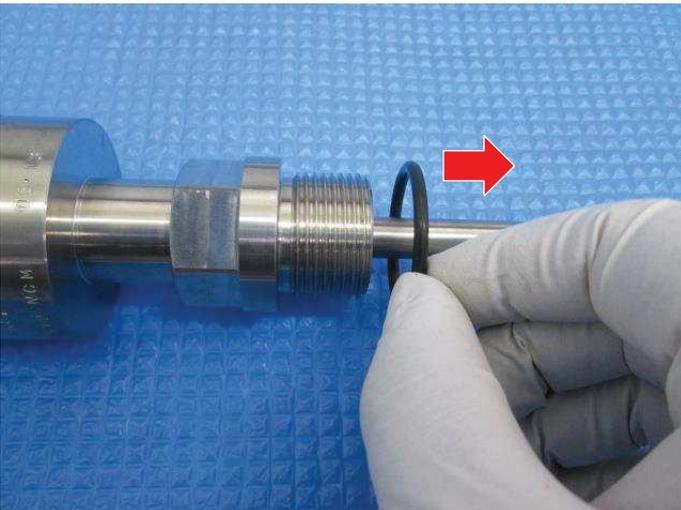
Disassembly Procedures

1-5 Removing O-Ring

Procedure 14



Remove the O-ring. If it is difficult to remove O-ring, please use O-ring pick tool without having any damage.



***O-Ring is a consumable part. Will need replacing occasionally.**

<Replace in case of>

- 1) Hardening
- 2) Swelling
- 3) Crack on the surface
- 4) Using at 200C (O-ring might change shape)

Disassembly Procedures

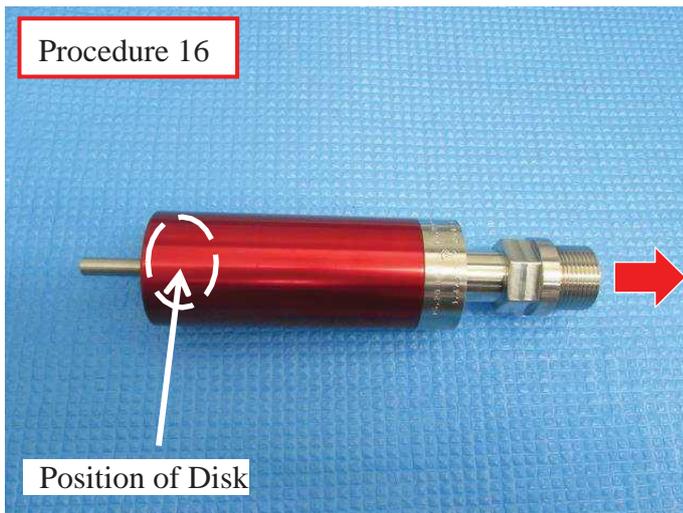
1-6 Disassembly Procedures of Casing and Shaft

Procedure 15



Hold the Casing,
remove the Shaft.

Procedure 16



Remove the Disk inside of Casing carefully.
The Disk comes from here describes by red
allow



Cleaning Procedures

2-1 Cleaning of Shaft



Prepare the tray and the acetone

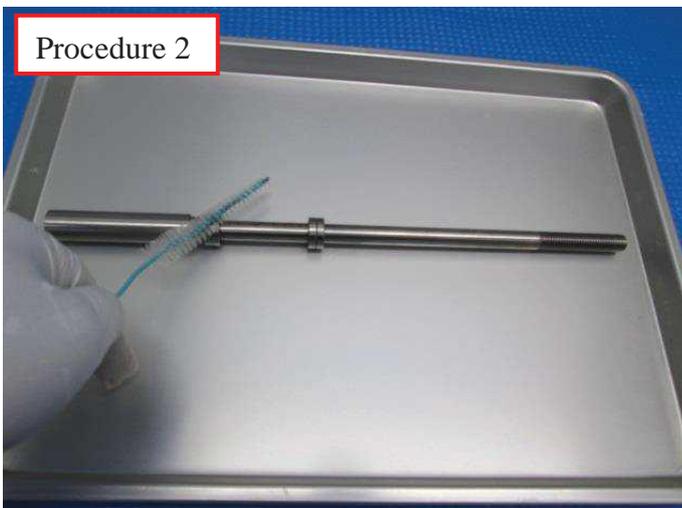
Procedure 1



Pour the acetone to the Shaft using washing bottle.

Acetone is a volatile substance and should be handled in accordance with local MSDS

Procedure 2



Polish using soft brush to prevent any damage.

Cleaning Procedures

2-2 Cleaning of Casing



Clean from this side, when you clean the inside of the Casing.

Procedure 1



Pour in the acetone using a wash bottle.

Procedure 2



Polish using a soft brush to prevent any damage.