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

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Casing</td>
</tr>
<tr>
<td>2</td>
<td>Disk</td>
</tr>
<tr>
<td>3</td>
<td>O-ring</td>
</tr>
<tr>
<td>4</td>
<td>Closing nut</td>
</tr>
<tr>
<td>5</td>
<td>Cover</td>
</tr>
<tr>
<td>6</td>
<td>Fixing nut for Wiper catch</td>
</tr>
<tr>
<td>7</td>
<td>Wiper catch</td>
</tr>
<tr>
<td>8</td>
<td>Shaft</td>
</tr>
</tbody>
</table>
Disassembly Procedures

1-2 Disassembly Procedure of Wiper Catch

Procedure 1:
- Make sure of position for open-end wrench

Procedure 2:
- Hold Wiper catch and Fixing nut for wiper catch using wrench (17mm), loosen Fixing nut for Wiper catch.

Procedure 3:
- Hold and loosen Fixing nut for Wiper catch
Disassembly Procedures

1-2 Disassembly Procedures of Wiper Catch

Procedure 4

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

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

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

Procedure 5

Fix the shaft

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

Procedure 6

Fix the shaft

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

Procedure 7
Hold the nut of Cover using open-end wrench or adjustable wrench.

Procedure 8
Hold the nut of Casing using open-end wrench or adjustable end wrench.

Procedure 9
Hold the nut of Casing, then twist and loosen the nut of Cover.

Twist the nut of Cover
Disassembly Procedures

1-3 Disassembly Procedure of Main Body and Cover

Procedure 10

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

Twist Closing nut

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

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

Position of Disk
Cleaning Procedures

2-1 Cleaning of Shaft

Procedure 1

Prepare the tray and the acetone

Procedure 2

Pour the acetone to the Shaft using washing bottle. *Acetone is a volatile substance and should be handled in accordance with local MSDS*

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.

Pour in the acetone using a wash bottle.

Polish using a soft brush to prevent any damage.