ZS-4D Spindle Unit Replacement Instructions DWX-51D Roland

Items Used in This Procedure



There are two types of belts included. The DWX-51D uses the longer belt (length: 170 mm)

Replacement



2. **Replacing the Spindle Unit**





Loosen the screws securing the motor stay. 0 Loosen the screws about two tur



6 Remove the belt from one side.

Push the milling machine toward the left at the location indicated by the arrow in the figure to remove the belt from the motor pulley.



Remove the spindle unit. A

Remove the screws, and slowly pull both the spindle belt and the spindle unit straight out.

() Notice

When removing the parts, make sure that the spindle unit does not cominto contact with the conductive plate.



3. Attaching the New Spindle Unit

Set the belt onto the new spindle unit. Using an appropriate new belt, make sure the white line is on the



Attach the spindle unit. 2 Set the spindle unit onto the pins

🕐 Notice

Make sure the belt is not pinched behind the spindle unit Make sure the spindle unit does not come into contact with the conductive plate



Secure the spindle unit. 6



Set the belt on the motor pulley. 4 Push the milling machine toward the left at the location indicated by the arrow in the figure to set the belt on the motor pulley.



چلے Relt ħ Move the belt to the center. Secure the motor stay. 6 Tighten the screws j∭ x3 Motor stay 4 Adjusting the Position of the Conductive Plate Check the position of the conductive plate. ิก Verify the following 3 points. If all points have been met, go to step ④. If any point has not been met, go to step ④. (1) The conductive plate and the spindle unit are not in contact with each other. ② The conductive plate and the spindle unit do not come into contact with each other or produce an abnormal noise when the motor pulley rotates. ③ The distance between the conductive plate and the spindle unit is 0.7 mm or less. (For your reference, the conductive plate is 0.2 mm thick.) **DB**H Conductive plate žini k 0.7mm mm or less 0 . Motor pulley Spindle unit Adjust the position of the conductive plate 0 1 Loosen the screw

Rotating the motor pulley will cause the belt to move. Rotate the pulley

Motor pulley

back and forth to adjust the belt to the position in the figure below

Adjust the belt position.

6

2 Rotate the adjustment screw to the left or right to move the conductive plate to a position that meets the requirements in step ().



Secure the conductive plate in position.

Tighten the screw to secure the conductive plate in position. Then, verify the the conductive plate is in a position that meets the requirements in step **①**.





5. **Operation after Replacing the Spindle Unit**

Reset the work time of the spindle unit.

① Display VPanel, and click 🙀 . ② Click [Reset] in the [Maintenance] tab



Run in the spindle unit.

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Failure to run in the spindle may result in unstable spindle rotation. Refer to the manual included with the milling machine for how to perform the work. Check for abnormal noise during run in.

- If an abnormal sound is generated, the conductive plate may be in contact with the spindle. Start over from step ${\cal O}$ in section 4.
- Perform automatic correction of the milling machine. If automatic correction is not performed, the cutting results may be undesirable. Refer to the manual included with the milling machine for how to perform the work

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