

DFD6340 Maintenance 2 (Rev. 3.00)

Trainee	
Company	

Period	
Trainer	

Item	Date	Trainee	Trainer
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..... Day 1

1. Machine Structure

- 1.1. Verify the Safety Interlock Circuit and Functions _____
- 1.2. Identify Electrical Block Diagram _____
- 1.3. Identify the Locations for Electric Components _____
- 1.4. Identify the Function of Each PC Board _____
- 1.5. Identify the Axes Zero Point Position _____
- 1.6. Identify the Axis Stroke _____
- 1.7. Identify the Servo Motor Driver Error Code _____
- 1.8. Identify the Spindle Motor Driver Error Code _____
- 1.9. Identify Stepping Motor and Spindle Motor Driver Setting _____
- 1.10. Interpret the Water and Pneumatic Piping _____
- 1.11. Interpret the Chuck Table Setup Principle _____

2. Inspection and Adjustment

- 2.1. Inspect and Adjust the DC Power Supply Output Voltage _____
- 2.2. Identify How to Properly Use the Dial Gauge _____
- 2.3. Inspect X-axis Straightness Accuracy _____
- 2.4. Inspect the X-Spindle Axis Perpendicularity _____
- 2.5. Adjust the X-Spindle Axis Perpendicularity _____

..... Day 2

- 2.6. Inspect Y-axis Straightness Accuracy _____
- 2.7. Inspect the Spindle Shaft Axial Runout _____
- 2.8. Inspect the Chuck Table Leveling Accuracy _____
- 2.9. Adjust the Theta-axis (Chuck Table) Leveling Accuracy _____
- 2.10. Inspect the Z-axis Positioning Repetition Accuracy _____
- 2.11. Inspect Workpiece Transport Positions _____
- 2.12. Adjust the Workpiece Transport Positions _____
- 2.13. Adjust the Wheel Cover Nozzle Position _____
- 2.14. Perform the Pixel Size Measure Operation _____

..... Day 3.....

3. Machine Parts Replacement

- 3.1. Replace the PC Board after Setting Jumper and DIP Switches _____
- 3.2. Replace the Axis End Sensor _____
- 3.3. Replace the NCS Sensor _____
- 3.4. Replace the Blade Breakage Detector (BBD) Sensor _____
- 3.5. Replace the Microscope Unit _____
- 3.6. Replace the Air Spindle Unit _____
- 3.7. Replace the Spinner Seal Unit _____

4. Appendix

- 4.1. (Appendix) DFD6340 Accuracy Certificate Form _____
- 4.2. (Appendix) Water and Air Piping Diagram [Standard Specification] _____
- 4.3. (Appendix) Electrical Circuit Diagram [Standard Specification] _____

Course composition, intended trainees and course objective

Course Name	Intended Trainees	Course Objective
Operation	<ul style="list-style-type: none"> - who has no experience of operating the machine - who conducts data and function settings of the machine 	<ul style="list-style-type: none"> - To enable trainees to understand the terms necessary for operating the machine and to process products by calling up the data set in the machine - To enable trainees to create the data and set the data and functions for operating the machine
Maintenance 1	<ul style="list-style-type: none"> - who has already completed the "Operation" course (or has equivalent operation skills) - who conducts periodic maintenance of the machine 	To enable trainees to safely and precisely perform the periodic maintenance and consumable parts replacement described in the Maintenance Manual of the machine
Maintenance 2	<ul style="list-style-type: none"> - who has already completed the "Maintenance 1" course (or has equivalent maintenance skills) - who conducts maintenance works which are not described in the Maintenance Manual of the machine 	To enable trainees to conduct maintenance works which are not described in the machine Maintenance Manual (only the items that can be executed without any special tools or access to the internal Maker Data)