DAD3220/3230/3430 Maintenance 2（Rev. 3.00）

Trainee		**Period**	
Company		**Trainer**	

<Important Notice>

The modules indicated with an asterisk (*) below may not be available depending on the specification of customer's equipment. For details, please see Technical Newsletter (#tnl2016-0021e) attached at the end of this sign-off sheet.

Item	Date	Trainee	Trainer
····· Day 1 ·····			
1. Safety Information			
1.1. Identify the Safety Features	_____	_____	_____
1.2. Identify the Safety Circuit and Verify the Functions	_____	_____	_____
2. Machine Structure			
2.1. Identify the Electrical Block Diagram	_____	_____	_____
2.2. Identify the Function of Each PC Board	_____	_____	_____
2.3. Identify the Locations of Electrical Components	_____	_____	_____
2.4. Identify the Servo Motor Driver and DDM Driver Error Code	_____	_____	_____
2.5. Identify the Spindle Motor Driver Error Code	_____	_____	_____
2.6. Identify the Motor Driver DIP Switch Setting	_____	_____	_____
2.7. Identify the Pneumatic and Water Piping	_____	_____	_____
2.8. Identify the Chuck Table Setup Principle	_____	_____	_____
····· Day 2 ·····			
3. Carry Out Measurement			
3.1. Identify How to Use Dial Gauge	_____	_____	_____
3.2. Inspect Chuck Table Leveling Accuracy	_____	_____	_____
3.3. Inspect X-axis Straightness Accuracy	_____	_____	_____
* 3.4. Inspect X Axis - Spindle Axis Perpendicularity	_____	_____	_____
4. Carry Out Adjustment			
* 4.1. Adjust Theta-axis (Chuck Table) Leveling Accuracy	_____	_____	_____
* 4.2. Adjust X axis - Spindle Axis Perpendicularity	_____	_____	_____
4.3. Perform Pixel Size Measurement	_____	_____	_____

5. Replace Machine Parts

5.1. Replace the PC Board after Setting the Dip-switch and Jumper	_____	_____	_____
5.2. Replace the Axis End Sensors (X, Y, Z, and Theta Axes)	_____	_____	_____
5.3. Replace the NCS Sensor [Optional Accessory]	_____	_____	_____
5.4. Replace the BBD sensor [Optional Accessory]	_____	_____	_____
* 5.5. Replace the Microscope CCD Camera	_____	_____	_____

6. Manage Machine Data

6.1. Utilize Log Viewer and Log Analyzer Function	_____	_____	_____
6.2. Execute Backup/Restore Machine Data	_____	_____	_____

7. Appendix

7.1. (Appendix) Accuracy Test Certificate (DAD3220)	_____	_____	_____
7.2. (Appendix) Accuracy Test Certificate (DAD3230)	_____	_____	_____
7.3. (Appendix) Accuracy Test Certificate (DAD3430)	_____	_____	_____

....

Course composition, intended trainees and course objective

Course Name	Intended Trainees	Course Objective
Operation	- who has no experience of operating the machine - who conducts data and function settings of the machine	- 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	- 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	- 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)

Technical Newsletter

#tnl2016-0021e

To customers who attended our dicing saw training course "Tier 3 (or Maintenance 2)"

Introduction

Among the dicing saws shipped after January 1, 2012, equipment with the Machine Directive[*1] (CE Marking[*2]) specification have been modified for safer design. This technical newsletter has been sent to inform you that some of the maintenance work taught in our training cannot be performed by customers.

<Equipment this notification applies to>

Customer's equipment	Shipped BEFORE Jan. 1, 2012	Shipped AFTER Jan. 1, 2012	
		Conforms to Machine Directive	Does not conform to Machine Directive
DAD322	N/A	**Applicable**	N/A
3000 Series [*3]	N/A	**Applicable**	N/A
6000 Series [*3]	N/A	**Applicable**	N/A

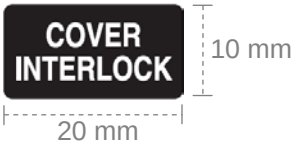
*1 Machine Directive integrates the "Essential safety requirements" for equipment.

*2 CE Marking is a mark which certifies that a machine conforms to "Essential safety requirements." The shipper is obliged to apply the CE Mark when shipping their products to the EU region.

*3 DAD3650, DFD6341, and DFD6560 with the standard specifications all conform to the Machine Directive. Therefore, this notification applies to all of these units, regardless of the shipping date.

How to Identify Applicable Equipment

The following label is attached near the safety switch on the outer cover of the applicable equipment. Refer to the appendix for the detailed label position of each equipment model.



Applicable Maintenance Work

If any of the following maintenance work is performed on applicable equipment, the safety mechanism (interlock) activates and the axes power shuts down. Therefore, customers are unable to perform any of the applicable maintenance work.

Equipment	Applicable Maintenance Work
DAD322 3000 Series	● Microscope replacement ● Accuracy adjustment ● Spindle replacement
6000 Series	● Microscope replacement ● Transfer adjustment ● Accuracy adjustment ● Spindle replacement ● Spinner seal replacement

Countermeasure

If any of the maintenance work mentioned above is required, please contact your DISCO customer engineer and request maintenance.

Inquiries

Please contact the DISCO Training Center (trainctr@disco.co.jp) or your local sales representative if you have any questions regarding this matter.