

Contents:

1. Warning:	2
2. Specifications & Functions:	4
3. Installation Guideline:	5
4. Operating Guideline:	9
5. Troubleshooting:	17
6. Product Certificate:	18

1. Warning:

1.1. Power Adaptor:

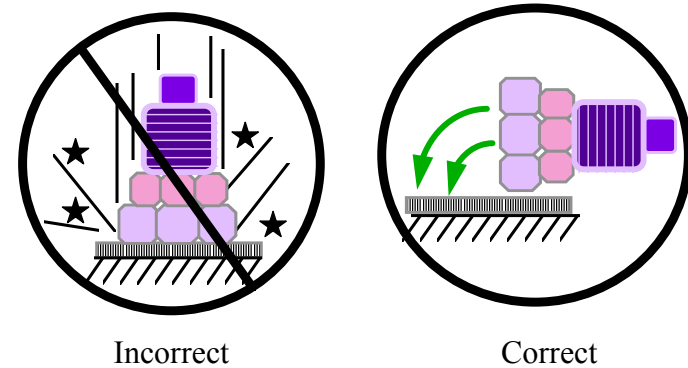
- 1.1.1. Please make sure of the supply voltage mach with adaptor.

1.2. Photo Sensor:

- 1.2.1. Do not touch or move photo sensor when measuring.
1.2.2. The rpm of wheels must be stable when measuring.

1.3. Vibration Sensor:

- 1.3.1. Install vibration sensor near spindle (figure 6), do not install on cover of wheels because the resonance will effect balancing precision.
1.3.2. Use rock method to install vibration sensor as shown in figure 1(right). Do not impact the vibration sensor.(left)



(Figure 1)

1.3.3. Please does neither drop nor shock the vibration sensor

1.4. Ring of angle:

1.4.1. Please engrave 360 degree line on flange or paste up degree ring of angle.

1.5. Slider:

1.5.1. Only suit for three sliders flange.

2. Specifications & Functions:

Functions	Specification
Amplitude Resolution	0.1mg , 0.05mm/s , 0.01 μ m (@1800 rpm)
Amplitude Range	50g (Acceleration)
Vibration Unit	Displacement (μ m : peak-peak)
Phase Resolution	0.1°
RPM Range	400~20000 rpm
RPM Sensor	Photoelectric Fiber-Optic
Sensing Range	5mm~100mm
Vibration Sensor	Accelerometer 100mV/g (typical)
Controller (CPU)	ALI M6117C (32bits)
Display	320x240 dot LCD , CCFL Back-light
Temperature Range	0°C ~ 50°C
Power Consumption	5W
Battery	12V Ni-MH Rechargeable Battery
Power	110 or 220 VAC 50/60Hz
Size	283 x 170 x 45 (mm)
Weight	1.5kg (with Battery)
Accessories	Accelerometer (with Magnetic Base)
	Photoelectric Fiber-Optic (with Magnetic Base)
	Power Adaptor
	Component: include Scissors , Reflection Paster , Glue .
	Instruction Manual
	Carrier Box

3. Installation Guideline:

3.1 Turn on power switch:(Figure 2)

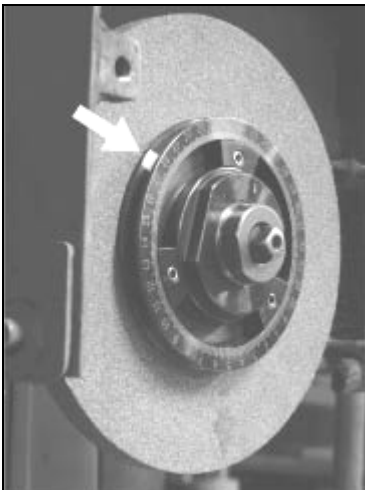
Please plug in adaptor if battery is low.



(Figure 2)

3.2 Paste up reflection paster: (Figure 3)

Cut about square of 5mm reflection paster and paste up on wheels or flange.



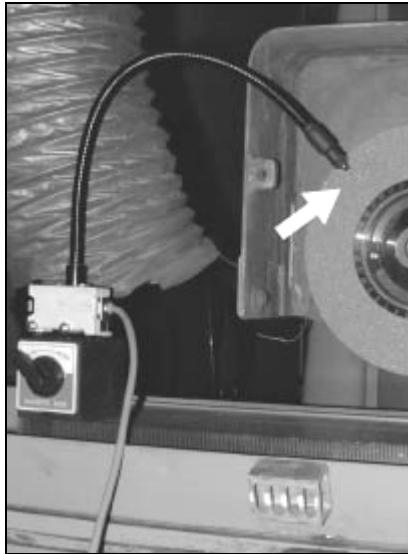
(Figure 3)

3.3 Set up photo sensor:(Figure 4,5)

Aim fiber tube at reflection paster with red light spot, and rotating the wheels until the red light spot flash in red & green mutually. The distance between red light spot and reflection paster is about 6 cm commonly.



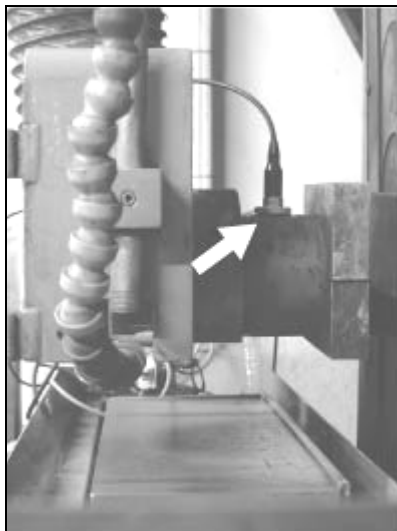
(Figure 4)



(Figure 5)

3.4 Set up vibration sensor: (Figure 6)

Install vibration sensor near spindle.



(Figure 6)

3.5 Installation finished (Figure 7)




(Figure 7)

4. Operating Guideline:

4.1 New Balance:

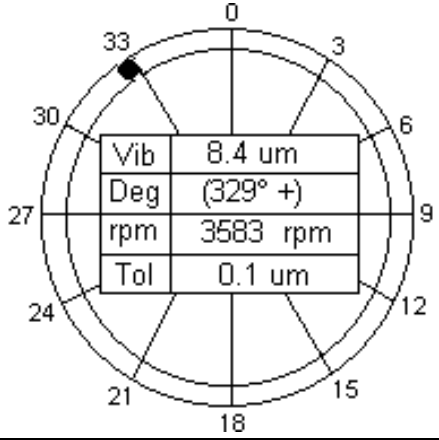
4.1.1 Press **F2** to select **NEW BAL.**

Operating Guide:		F1
[F2]-To Do New Balance: Set Three Sliders on 0° 120° 240°	NEW BAL.	F2
[F3]-To Last Static Balance: Input Three Sliders Original Angle	LAST BAL.	F3
 12.4 V		F4
WB-7000SP Grinder Balancer V1.32		F5
		F6

4.1.2 Place three sliders on 0°120°240°and start wheel.

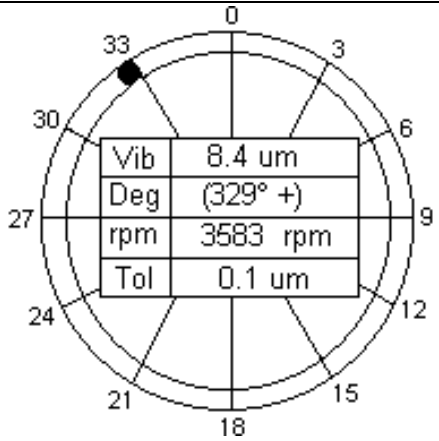
Move Sliders to following angle	Main Menu	F1
Slider A: 0.0°		F2
Slider B: 120.0°		F3
Slider C: 240.0°		F4
		F5
Move Sliders & Start Wheel		F6

4.1.3 Measured data will be displayed. While measure ok, stop wheel.



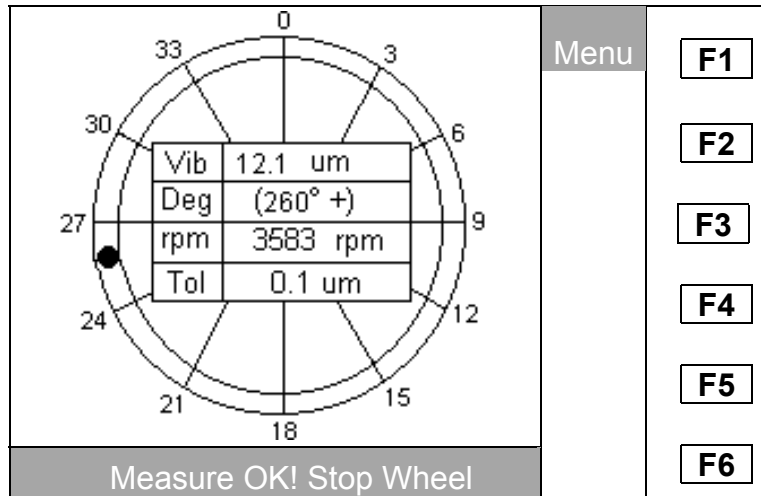
	Main Menu	F1
		F2
		F3
		F4
		F5
Measure OK! Stop Wheel		F6

4.1.4 After wheel stop, move 0°slider to 30°and start wheel.

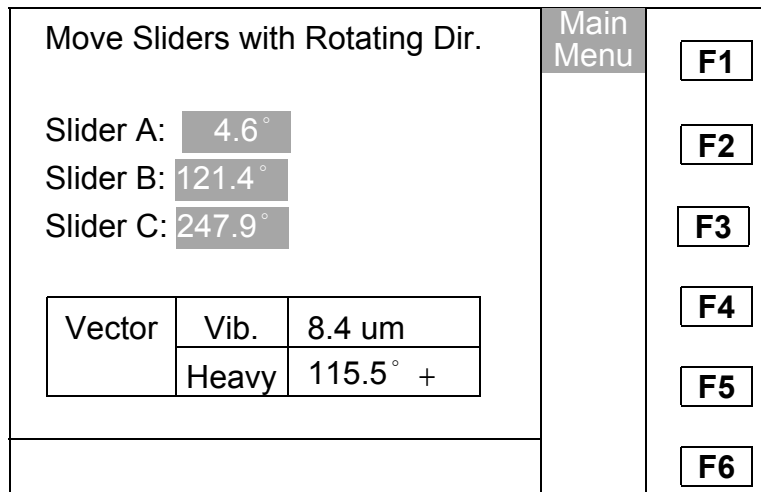


	Main Menu	F1
		F2
		F3
		F4
		F5
Move 0° Slider to 30° & start		F6

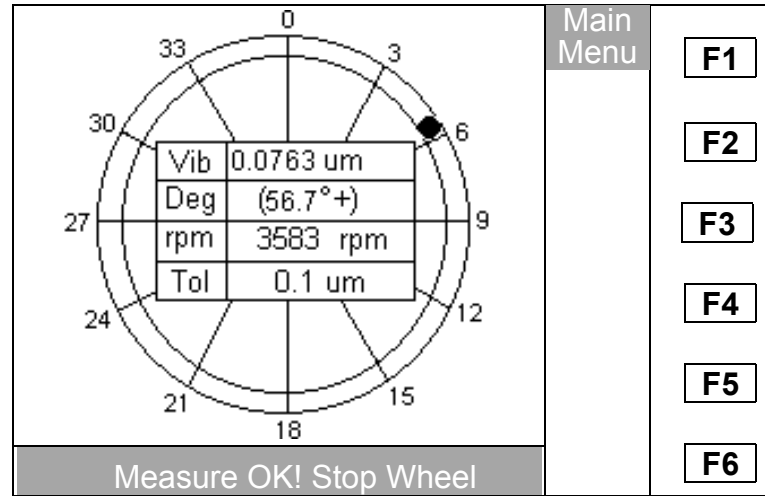
4.1.5 Measured data will be displayed again, while measure ok, stop wheel.



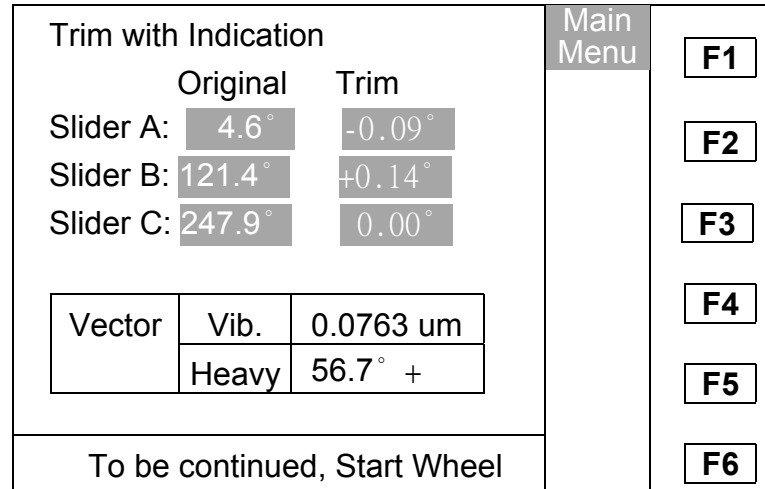
4.1.6 Move three sliders to new angle according to the indication.



4.1.7 Residual vibration will be displayed.




4.1.8 Trim sliders to new angle according to the indication.



4.2 Last Static Balance:

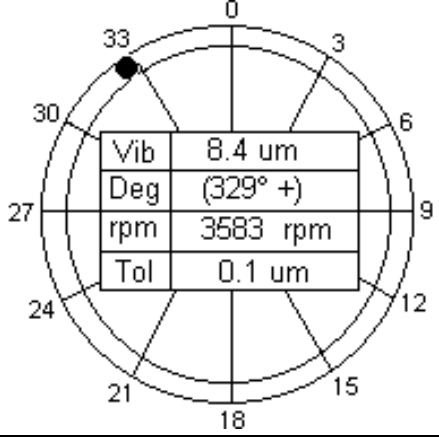
4.2.1 Press **F3** to select **LAST BAL.**

Operating Guide:		F1
[F2]-To Do New Balance: Set Three Sliders on 0° 120° 240°	NEW BAL.	F2
[F3]-To Last Static Balance: Input Three Sliders Original Angle	LAST BAL.	F3
 12.4 V		F4
		F5
WB-7000SP Grinder Balancer V1.32		F6

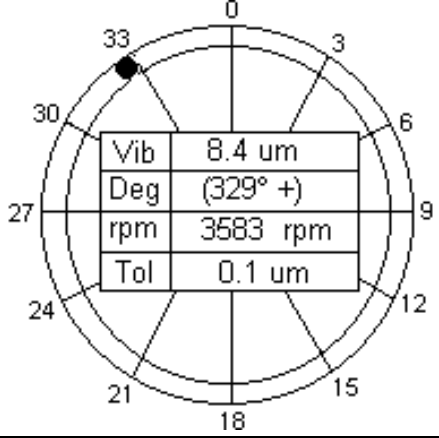
4.2.2 Input three sliders original angle and start wheel.

Input three sliders original angle	Return	F1
Slider A: > 20.0°	Delete	F2
Slider B: > 120.0°	Insert	F3
Slider C: > 250.0°	Cancel	F4
After enter angle, press NEXT	Up	F5
If OK Press Next or input again	Next	F6

4.2.3 Measured data will be displayed. While measure ok, stop wheel.

	Main Menu	F1
		F2
		F3
		F4
		F5
Measure OK! Stop Wheel		F6

4.2.4 After wheel stop, move slider A to new angle according to the indication and start wheel.

	Main Menu	F1
		F2
		F3
		F4
		F5
Move 20° Slider to 50° & start		F6

4.2.5 Measured data will be displayed again, while measure ok, stop wheel.

Vib	12.1 um
Deg	(260° +)
rpm	3583 rpm
Tol	0.1 um

Main Menu

F1

F2

F3

F4

F5

F6

4.2.6 Move three sliders to new angle according to the indication.

Move Sliders with Rotating Dir.

Slider A: 4.6°

Slider B: 121.4°

Slider C: 247.9°

Vector	Vib.	8.4 um
	Heavy	115.5° +

Main Menu

F1

F2

F3

F4

F5

F6

To be continued, Start Wheel

4.2.7 Residual vibration will be displayed.

Vib	0.0763 um
Deg	(56.7° +)
rpm	3583 rpm
Tol	0.1 um

Main Menu

F1

F2

F3

F4

F5

F6

Measure OK! Stop Wheel

4.2.8 Trim sliders to new angle according to the indication.

Trim with Indication

	Original	Trim
Slider A:	4.6°	-0.09°
Slider B:	121.4°	+0.14°
Slider C:	247.9°	0.00°

Vector	Vib.	0.0763 um
	Heavy	56.7° +

Main Menu

F1

F2

F3

F4

F5

F6

To be continued, Start Wheel

5. Troubleshooting:

Problem	Cause	Solution
No Display after turn on power switch	Battery is low	Plug in adaptor
	Adaptor is out of order	Contact vendor to change a new one
	Power voltage is mismatch	Check input voltage of adaptor
Can not enter into measuring procedure	Photo sensor is not plug in	Plug in photo sensor
	Fiber tube is not aim at reflector	Setup photo sensor again
	Photo sensor is out of order	Contact vendor
Can not measure vibration data	Vibration sensor is not plug in	Plug in vibration sensor
	Vibration sensor is not installed on spindle	Place vibration sensor on spindle
	Vibration sensor is out of order	Contact vendor
	Grinder rpm is unstable	Check grinder controller

6. Product Certificate:

CoversPlus International Co.,Ltd.

Product Certificate

Custom			
Address			
Tel		Fax	
Model	WB-7000SP	S/N	
Vib. Sensor	DTE150-1A	Sensor S/N	
Purchase Date		Guarantee Date	

1. The certificate becomes effective with the purchase date and seal by agency.
2. The certificate offer 1 year's guarantee for the quality of instrument, if it is damaged under normal usage as well as no man-made issue.
3. Out of guarantee period, vendor can ask for repair cost because of the man-made or weather reason.
4. If the certificate is missed or not intact, it will not reissue.
5. No seal no effective.
6. Please enclose this certificate when instrument send back for repairing.

CoversPlus International Co.,Ltd.
 9F,No.32-1,Lane 450,Sec. 5, Cheng-Gong Rd.,
 Nei-Hu Area,Taipei,Taiwan
 TEL:+886-2-26305829
 FAX:+886-2-26310950
<http://www.coversplus.com.tw>
<http://www.coversplus.com.cn>
 E-mail: cover@coversplus.com.tw

