

FLUKE®

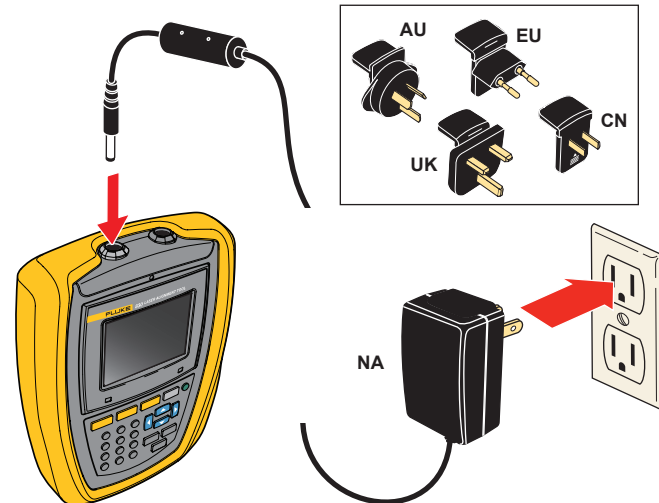
# 830 Laser Alignment Tool

Quick Reference Guide

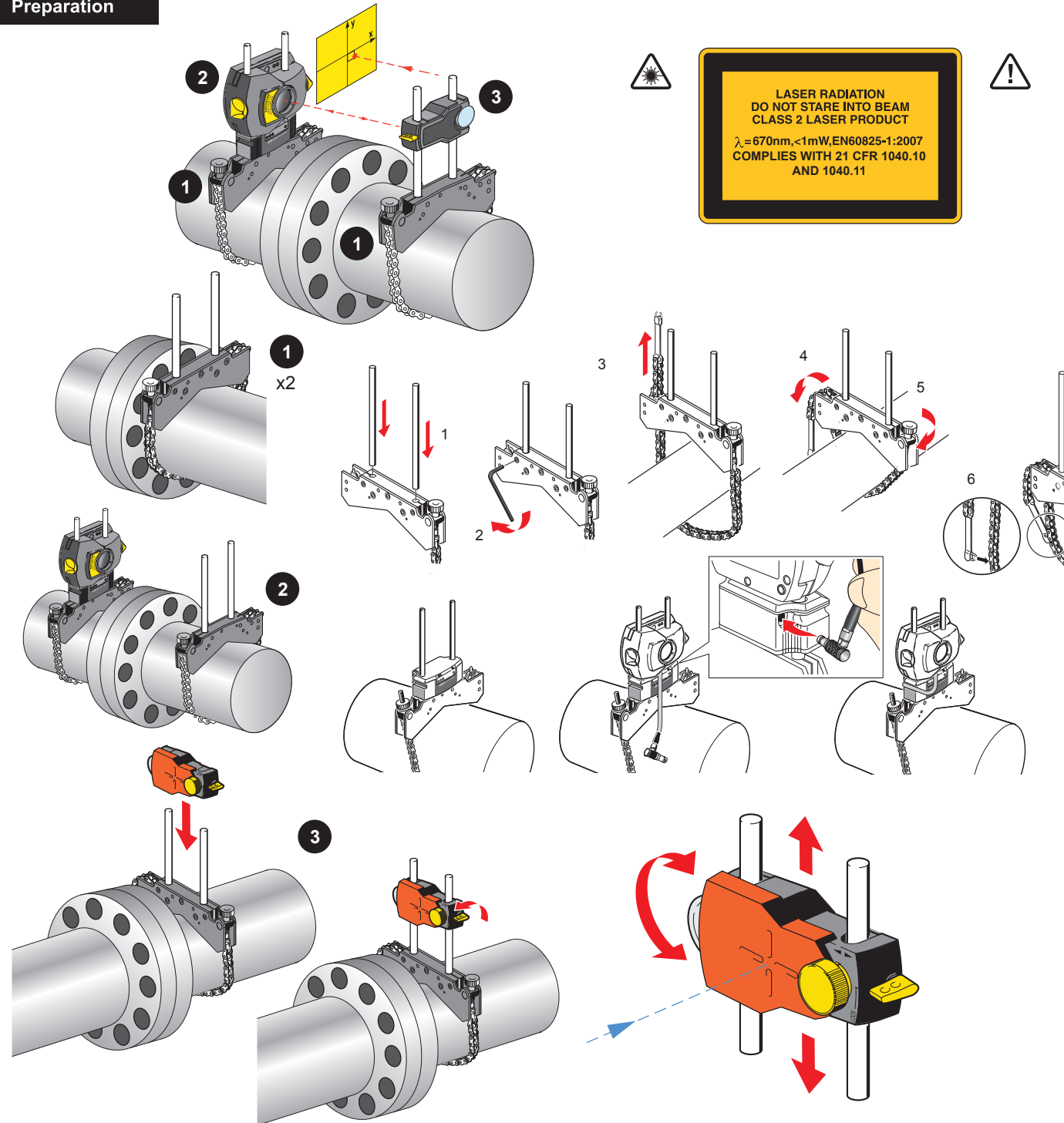
**Warning**

To prevent possible electrical shock, fire, or personal injury, read the "830 Safety Sheet" before you use this Product.

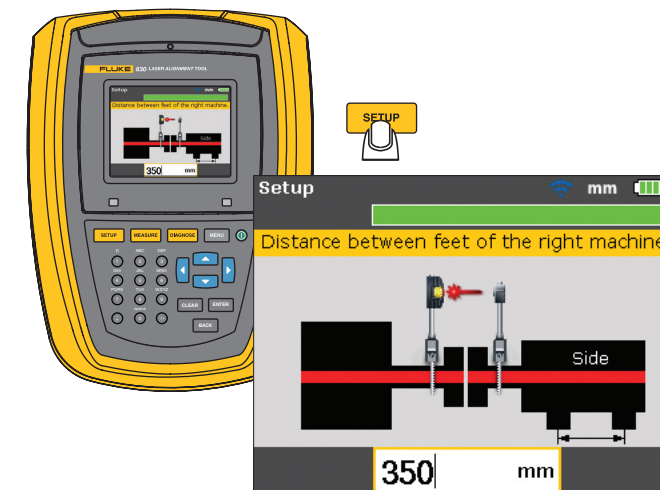
Go to [www.fluke.com](http://www.fluke.com) to register your product, download manuals, and find more information.



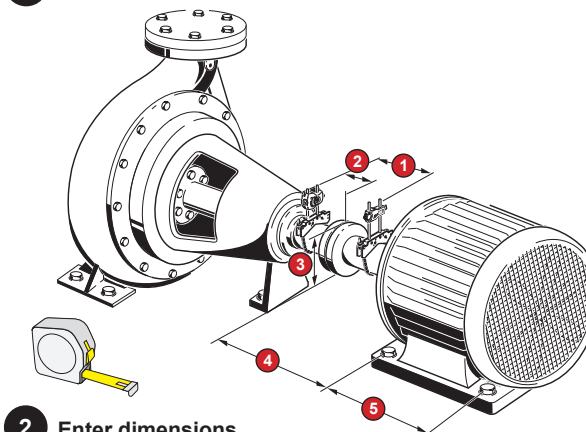
## Preparation



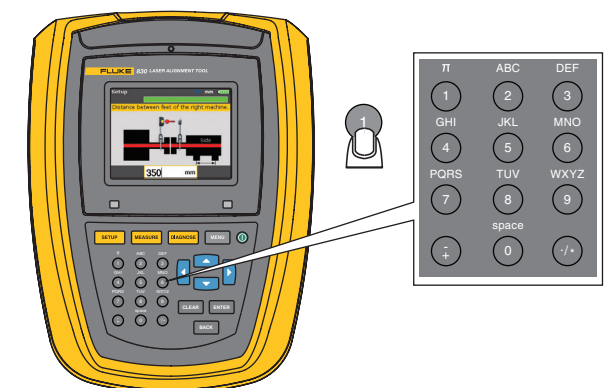
## Step 1 Setup: Enter Machine Dimensions



### 1 Take dimensions



### 2 Enter dimensions



## Overview of 830





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Step 2 Measure: Take 3 Readings

1  OR 

Menu mm

Measurement Options

Compass Mode Clock Mode Averaging

Extend Sensor Selection

3 Take 1st measurement when green

Measure - COMPASS MODE mm

Press ENTER to start measurement.

Laser READY

WID: 59500050

0 points

5 Take 2nd measurement when green

Measure - COMPASS MODE mm

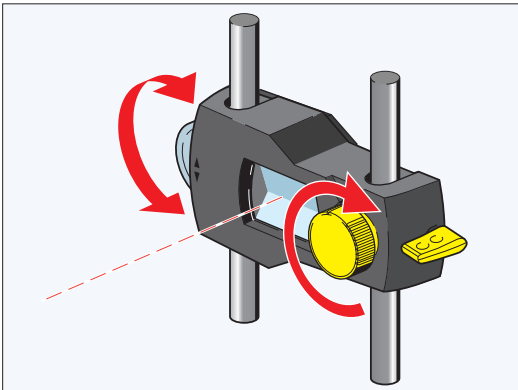
Press ENTER to take a point.

Laser READY

WID: 59500050

1 points

2 Adjust prism



4 Rotate shaft



6 Rotate shaft and take 3rd measurement when green

Measure - COMPASS MODE mm

Press ENTER to take a point.

Laser READY


WID: 59500010


2 points


Step 3 Diagnose: Make Foot Correction


Diagnose mm


Current measurement


Vertical 

A Gap -0.04 

B Offset -0.05 

C Gap +0.22 





D Offset +0.08 

Horizontal 

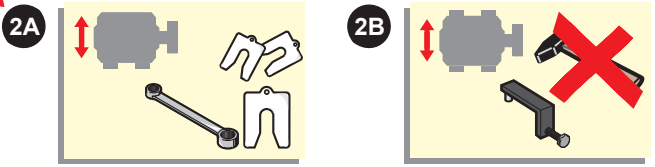
Side -0.02 -0.15

Top +0.29 +0.98

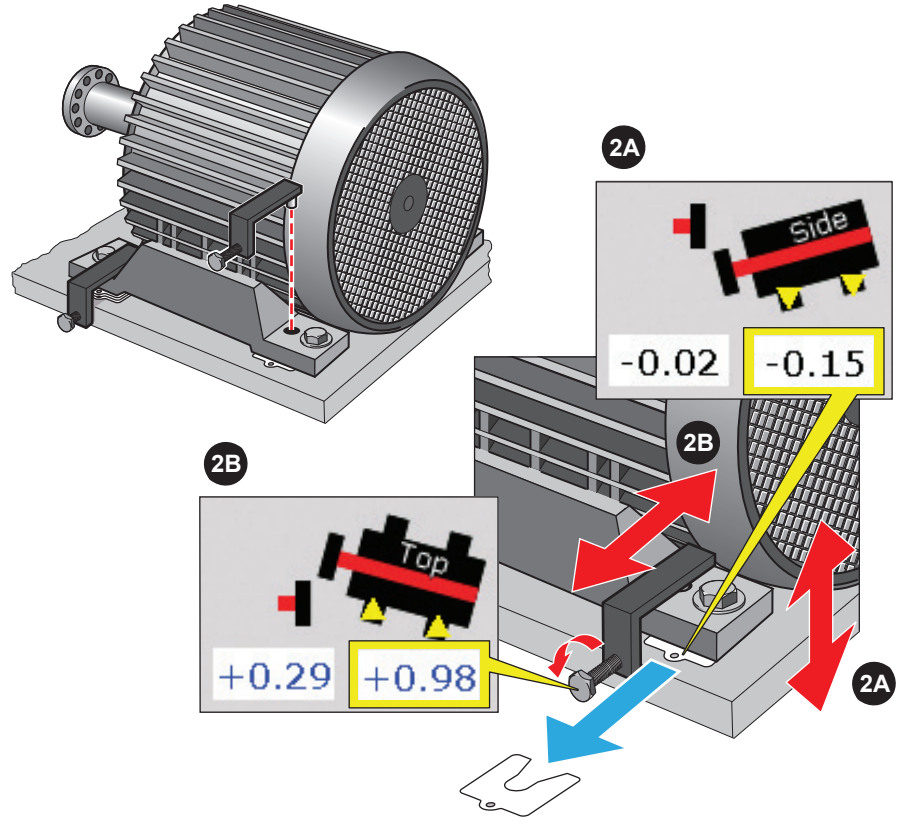
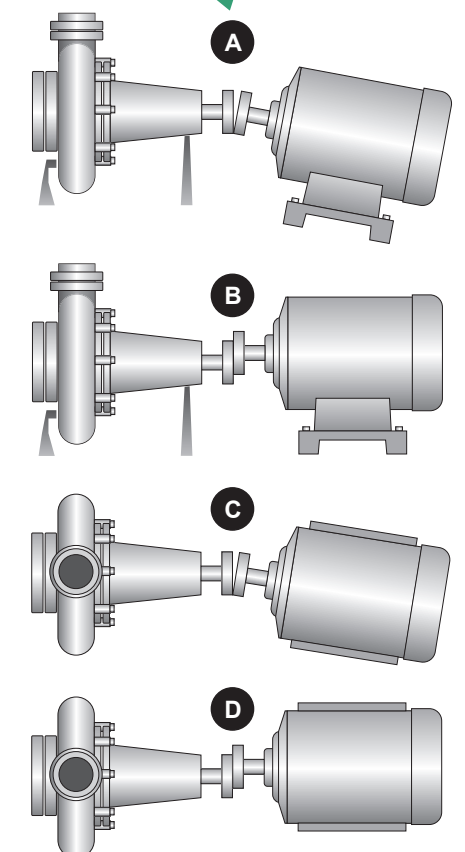
1 Alignment condition

Tolerance	Tolerance Bar	LED Color
Excellent Tolerance		Green
Acceptable Tolerance		Yellow
Out-of-Tolerance		Orange
Grossly Misaligned		Red

Adjustment needed



Alignment values



Final Check

1 Move mm

Angle ok, please wait or press ENTER to continue.

Move sensor to a green position.

310° Angle in range

2 Move mm

Press ENTER to select move direction.

Laser READY

Choose Move orientation

Horizontal Vertical

3 Move - Horizontal mm

Move in progress, press ENTER to stop.

Static Top

Horizontal

Gap 0.17

Off. -0.04 +0.32 +0.71

4 Move - Horizontal mm

Press ENTER to choose an option.

Laser READY

Move Options

Stop and Measure Re-enter Move Extend

Offset -0.01 -0.20 -0.44

5 Menu mm

Main menu

Left Machine Coupling Tol. Right Machine Move Soft Foot

File Measure Options Print Report Config Turn Off

Optional Check: Soft Foot

1 Menu mm

Main menu

Left Machine Coupling Tol. Right Machine Move Soft Foot

File Measure Options Print Report Config Turn Off

2 Soft Foot mm

Press ENTER to measure indicated foot.

Laser READY

Top

3 Soft Foot mm

Loosen the bolt and press ENTER to measure.

Loosen the bolt and press ENTER to take soft foot reading.

Laser READY

Top

4 Soft Foot mm

Press ENTER to measure indicated foot.

Foot measurement now finished. Please retighten the bolt and measure another foot.

Laser READY

Top

5 Soft Foot mm

Press ENTER to display soft foot tolerances.

Soft foot has been detected.

Laser READY

Top

+0.07 +0.02