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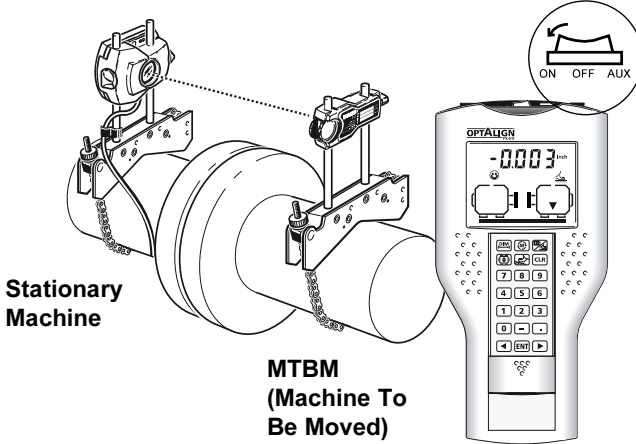
P.O. Box 0158 • Wingate, NC 28174
 704-233-9222 • Fax 704-233-9211
 E-mail: voelzow@pergee.net
 Web: www.LaserAlignment.net

OPTALIGN® PLUS

Alignment of horizontal machines

File No. _____ Machine No. Type _____ Operator _____ Date _____

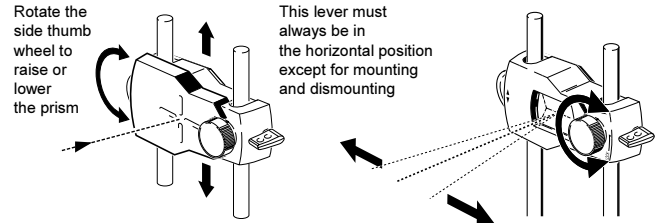
1. Mount OPTALIGN® PLUS and switch on



Resume: You can resume where you last left off by pressing **ENT**.

3. Measure

- Adjust prism so that laser beam strikes center of the prism cap cross hair.



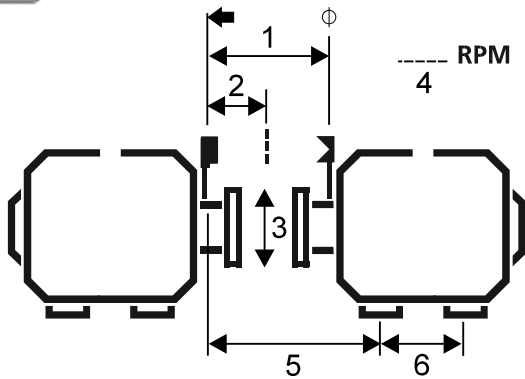
- Remove cap.
- Adjust prism until coordinates are close to 00.
- TURN will appear on the screen.
- Rotate shafts at least 75°.

If *End* or *off* appear during rotation, turn shafts back until numbers reappear. (*InfiniRange*® then starts automatically.)

- Adjust beam close to 00 and press **ENT**.
- Proceed with measurement.

Note: You may initiate *InfiniRange* manually at any time by pressing **F 6**.

2. Enter dimensions

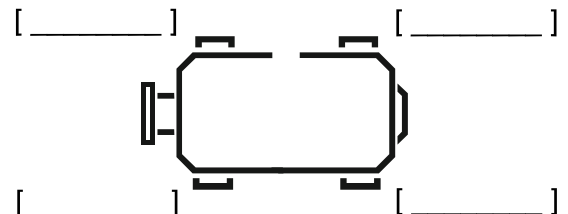


- 1. Laser to prism _____ **ENT**
 (Arrow point to hash mark "φ" on prism)
 (Center-to-center of support posts)
- 2. Laser to center of coupling _____ **ENT**
 (Center of flex planes)
 Note: See F73 if you have a spacer coupling.
- 3. Working diameter _____ **ENT**
 (Coupling diameter) 10" (Default value)
- 4. RPM _____ **ENT**
- 5. Laser to front foot _____ **ENT**
 (Note: Add 2" if using the Beam Deflector.)
- 6. Front foot to back foot _____ **ENT**

Soft Foot

- Position shafts at either 90° or 270° (±4°).
- Adjust beam close to 00 if necessary. Press **ENT**. (Not necessary if "----" appears.)
- Press **CLR** then loosen the bolt, press **ENT** to record value then tighten bolt.
- Press **←** or **→** to move to the next foot.

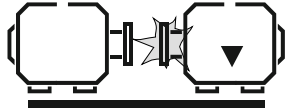
Follow this procedure for all remaining feet and correct soft foot if greater than 0.002".





4a. Coupling Results

Vertical Offset



(+) ▲ (-) ▼

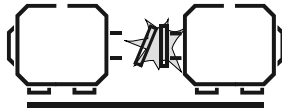
1. _____

2. _____

3. _____

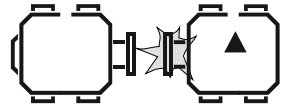
4. _____

Vertical Gap



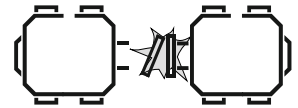
(+) = (-)

Horizontal Offset



(+) ▲ (-) ▼

Horizontal Gap



(+) = (-)

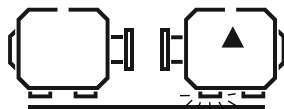


Targets



4b. Foot Corrections

Front Foot Shim



(+) ▲ add shims (-) ▼ remove shims

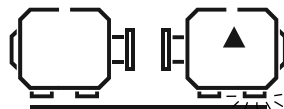
1. _____

2. _____

3. _____

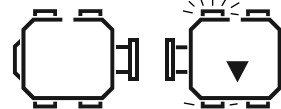
4. _____

Back Foot Shim



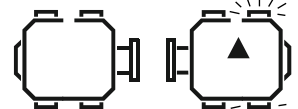
(+) ▲ add shims (-) ▼ remove shims

Front Foot Move



(+) ▲ toward 3 o'clock (-) ▼ toward 9 o'clock

Back Foot Move



(+) ▲ toward 3 o'clock (-) ▼ toward 9 o'clock



Thermal Growth



5. Move

- Choose position (45°, 135°, 225°, 315°) by rotating shaft until desired angle appears (±4°).
- Select direction of Move (horizontal or vertical) using . Confirm with .
- Adjust beam to if necessary.
- When *Enter* appears press .
- Move machine into alignment.

Order No. 01-198-01 Rev. 1.0v

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TolChek®

RPM	Offset (mils)		Gap (mils/10")		Spacer Shaft (mils/inch)	
	Excellent	Acceptable	Excellent	Acceptable	Excellent	Acceptable
600	5.0	9.0	10.0	15.0	1.8	3.0
900	3.0	6.0	7.0	10.0	1.2	2.0
1200	2.5	4.0	5.0	8.0	0.9	1.5
1800	2.0	3.0	3.0	5.0	0.6	1.0
3600	1.0	1.5	2.0	3.0	0.3	0.5
7200	0.5	1.0	1.0	2.0	0.2	0.3

All Speeds: Maximum Soft Foot Reading 2 mils. Use OEM or in-house tolerances if available.

- always lit: Value within Excellent tolerances
- flashes: Value within Acceptable tolerances
- No 'smiley': Out of tolerance