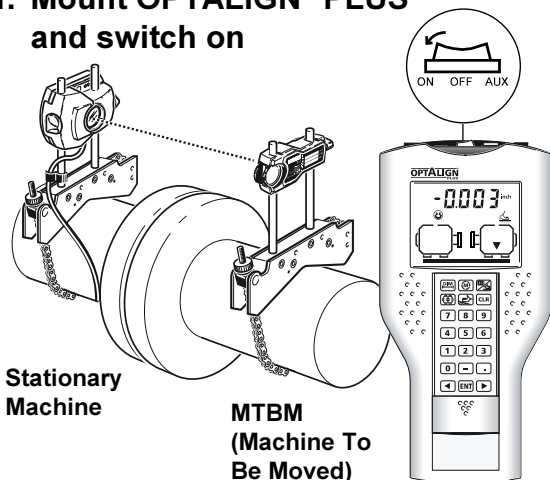


1. Mount OPTALIGN® PLUS and switch on



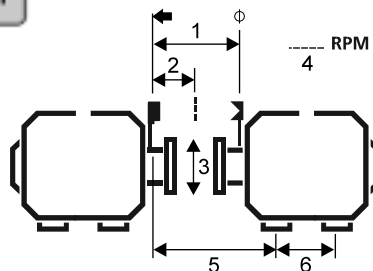
Stationary Machine

MTBM
(Machine To Be Moved)

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

DIM

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 **10"** **ENT**
(Coupling diameter) (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**



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.
- *t u r n* will appear on the screen.
- Rotate shafts at least 75°.



4. Results

Coupling Results

- Press until appears. Press **ENT** or or to toggle through offset and angular misalignment.

(+) Positive coupling offset ▲

(-) Negative coupling offset ▼

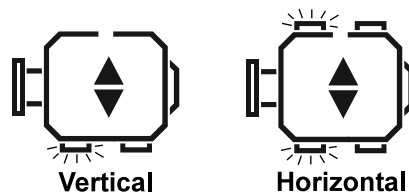
(+) Positive coupling gap

(-) Negative coupling gap

Repeat sections 3 and 4 to establish repeatability.

Foot Corrections

- Press until appears. Press **ENT** or or to toggle through vertical shimming and horizontal move corrections.



Arrows show direction of move or shimming. Apply correction to blinking feet.



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 **ENT**.
- Adjust beam to 00 if necessary.
- When *E n t e r* appears press **ENT**.
- Move machine into alignment.



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".

Static Feet

- Press **F 7 0**. *S t R E* appears.
- Select desired static feet (flashing) with or . Press **ENT**. Enter missing dimensions when prompted.

Coupling Type

- Press **F 7 3**. *S h r t* or *L o n g* appears.
- Select desired type with . Press **ENT**. If *L o n g* is selected, enter spacer length when prompted.

InfiniRange® (Measurement Range Extension)

Using InfiniRange while in Measure:



- If *End* or *oFF* appear during rotation, turn shafts back at least 5° until numbers reappear, then pause. *InfiniRange* then starts automatically. (E 5 E 1, E 5 E 2, shows...)
- When *SE E* appears readjust beam to 0 0.
- When *Ent r* appears press **ENT**.
- Proceed with measurement.

Note: Initiate *InfiniRange* manually any time provided coordinates are displayed, with **F** **6**.



Using InfiniRange while in Move:

- If *End* or *oFF* appear during Move, move machine back until numbers reappear.
- Press **F** **6** and wait for *InfiniRange* to start.
- When *SE E* appears readjust beam to 0 0.
- When *Ent r* appears press **ENT**.
- Continue moving machine.

Targets

- Press  until  appears. Press **ENT** to confirm coupling diameter (change if necessary).
- Enter coupling targets in inches in the following order VO, VA, HO and HA. Press **ENT** after each entry.

Thermal Growth

- Press  (twice) until  appears.
- Enter thermal growth values in inches at the feet. Press **ENT** after each entry.

Note: Use the F70 function to enter growth values for the left machine.

Measurement Averaging

- Press **F** **8** **2**.
- Select from 2 to 7 and confirm with **ENT**.



Vertical Machines (see manual)

Storing, Printing and Data Transfer



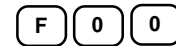
Saves file



Opens file



Prints a report





Transfers data from the PLUS to a PC using the Optalign Plus PC Commander software.

Tolerances for Shaft Alignment

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.

ToIChek® — Display

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

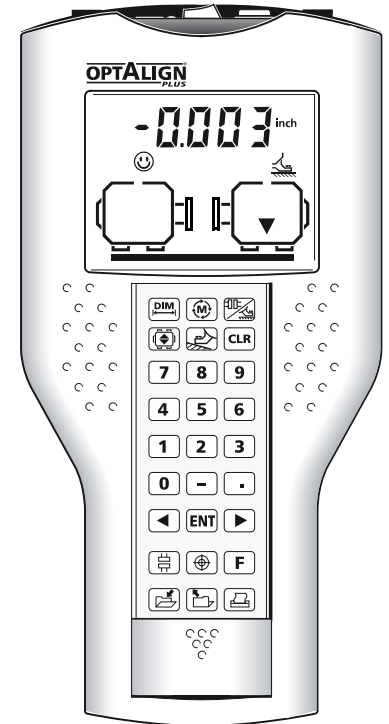
ToIChek® — Report

- OK** = Excellent
- AC** = Acceptable
- = Out of tolerance

OPTALIGN® PLUS

Quick Reference

Version 2.0x



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