



To avoid bodily injury:

- DO NOT stare directly at the laser beam. Serious eye injury could result.
- DO NOT use optical tools such as a transit to view laser beam.
- DO NOT project the laser beam directly into the eyes of others.
- DO NOT project laser beam onto a reflective surface.
- DO NOT operate around children or allow children to operate.
- DO NOT disassemble the laser.
- DO NOT remove warning labels.
- Always turn off the laser when the tool is not in use.

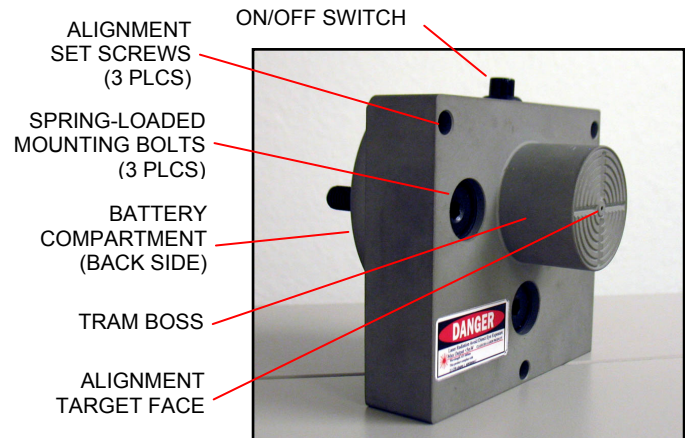
This tool emits a laser beam that projects a visible spot on the target surface when the tool is used indoors.
Read all instructions before operating the unit.

Getting Started

Recommended Tools:

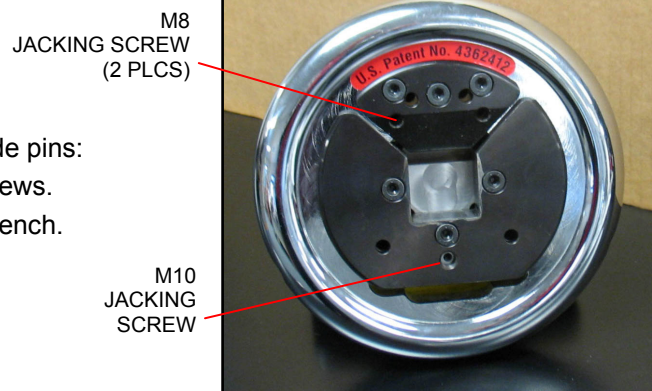
- Hex wrenches: 2.5, 5 and 6 mm
- Small flat blade screwdriver
- Blank sheet of paper, pencil and easel

1. Review alignment tool components.
2. Mount your chucks as required for your application.



Remove the Inserts from the Chucks

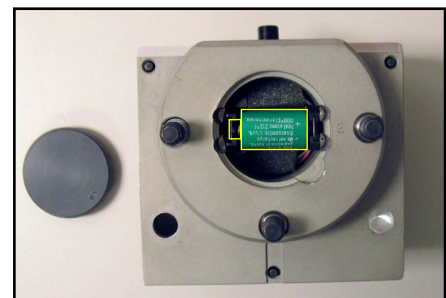
1. Use 6 mm hex wrench to remove all bolts.
2. Use jacking screws to remove the inserts from the guide pins:
 - For top insert, use the removed bolts as jacking screws.
 - For bottom insert, use a M10 bolt and 8 mm hex wrench.
3. Remove the guide pins.



Install the Battery in the Alignment Tool

Each alignment unit requires a CR ½ AA, 3V lithium battery (included).

1. Pry the cover off of the battery compartment.
2. Install the battery in the compartment as illustrated. If laser beam does not come on when switch is on, check battery polarity.
3. Reinstall the cover. (Align the number stamped on the cover with the number stamped on the tool.)

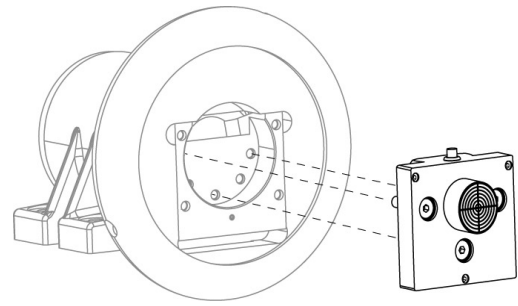


Tidland Laser Alignment Tool

(continued from other side)

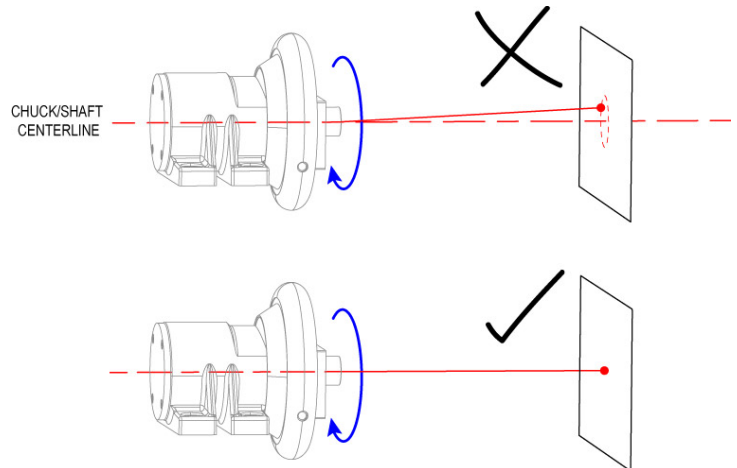
Install the Alignment Tools in the Chucks

1. Remove the inserts from the chucks and position the alignment tools in each chuck.
2. Use 5 mm hex wrench to tighten the mounting bolts.



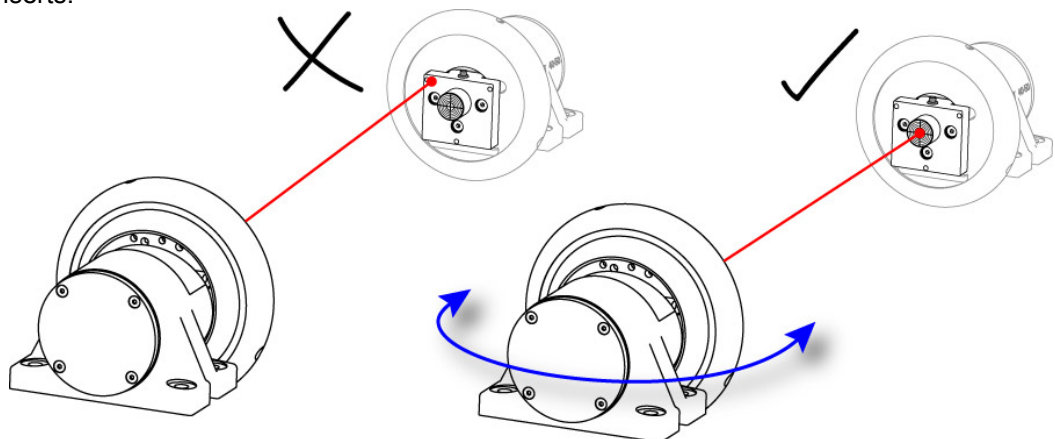
Align Laser Beam with Chuck Centerline

1. On one chuck, use the switch to turn on the alignment tool.
2. Place paper target perpendicular to the mounted alignment tool 2 to 3 feet in front of the chuck.
3. Spin the chuck handwheel and, with a pencil, mark the laser beam's circular path on the paper.
4. Adjust the set screws in the alignment tool face with a 2.5 mm hex wrench to draw the laser beam toward the center of the path traced on the paper.
5. Repeat Steps 3 and 4 until the laser beam is a fixed pinpoint and does not trace a circle when spinning the chuck. This ensures the laser beam is aligned with the centerline of the chuck in which it is mounted.
6. Repeat Steps 1 through 5 for the opposing chuck.



Align Opposing Chucks with Each Other

1. Remove the paper targets and allow the laser beams to point at the target on the opposing alignment tool.
2. Adjust each chuck until the laser beam points at the center of each target.
3. Adjust the level and tram of the chuck system; use the alignment target boss (tram boss) for reference.
4. Repeat the process until chucks are aligned and level and tram are maintained.
5. Turn off lasers and remove the alignment tools from the chucks.
6. Reinstall the chuck inserts.



Questions?

Contact Tidland Customer Service.