



MASTER MACHINIST'S LEVEL INSTRUCTIONS

H2682 & H2683



These incredibly accurate levels are used for setting up lathes, milling machines, and other fine machinery. The H2682 8" Model and H2683 12" Model both have a resolution of .0005" over a 10" span. If you put a newspaper page under the machine that you are leveling, the bubble will move!

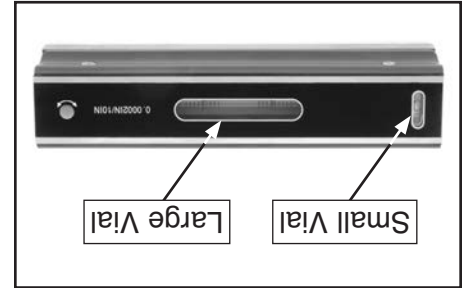


Figure 1. Location of vials.

1. Place level on a clean surface. Make sure base of level is wiped clean. Dirt and dust can affect the accuracy of your readings.
2. If bubble in large vial (see Figure 1) is pegged to either side, rotate level until bubble is close to center. You can also adjust by placing shims under one end of level.
3. Take note of bubble reading in large vial (see Figure 1). Mark where level rests on surface before next step.
4. Rotate level exactly 180° and take note of bubble in large vial. If bubble does not line up opposite first reading, within one half of a line, it needs to be adjusted.

Checking level's accuracy:

- ### Using level:
1. Clean base of machinist's level and surface to be leveled. Grime and metal shavings will affect the accuracy of the readings.
 2. Place level parallel with edge and in center of surface to be leveled.
 3. Adjust surface to be leveled so the bubble in the small vial (see Figure 1) is centered. The bubble should come to a complete stop in the exact center of the vial.
 4. Next, adjust surface so the bubble in the large vial (see Figure 1) is centered.
 5. Rotate level 90° and repeat Steps 2–4.

Adjusting level:

1. Remove plastic tab on face of level to reveal Phillips head screw (see Figure 2).



Figure 2. Location of adjustment screw.

2. Turn screw clockwise to move bubble right; turn screw counterclockwise to move bubble left.

Note: This level is so sensitive that simply resting your weight on the surface you are leveling will affect the reading!