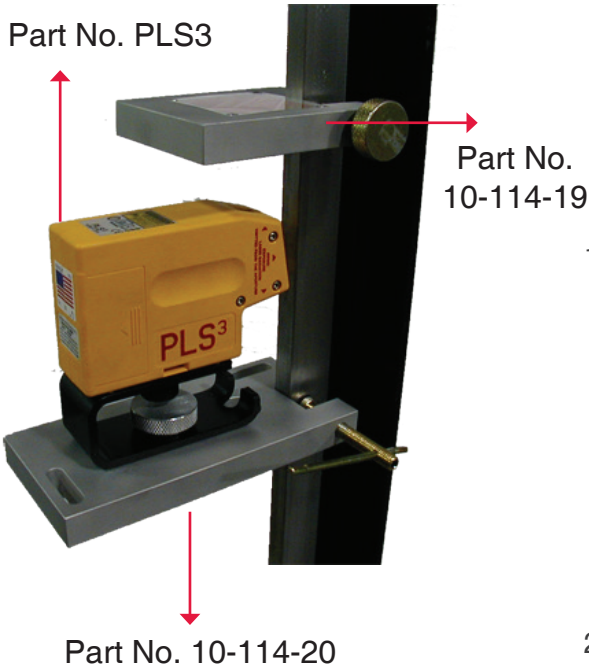


Laser Alignment Kit



Part No. 10-114

Wurtec's laser alignment kit will allow you to survey the shaft, plumb your rails by shooting the laser beam up from the bottom of the hoistway or down from the top of the hoistway. Using a laser system like this prevents you from having to drop plumb lines and build targets. This is accomplished by incorporating a PLS3 self-leveling laser that projects a beam out of the top, bottom and front of the laser unit. In most cases Wurtec recommends positioning the laser unit at the bottom of the hoistway and shooting the beam up. The general accuracy of the laser is $\frac{1}{4}$ " in 100'.

1. The PLS3 laser can be positioned on the floor allowing it to project a plumb laser beam up the shaft. The shaft can then be surveyed by walking the floors and measuring from the edges of the shaft to the laser beam. Once the initial job survey is complete and you know where the rails will be positioned in the shaft, you can get started. The laser can be located on the pit floor and secured using the mounting bracket provided, or you can install your first rail in the pit and then secure the laser mounting bracket to that first rail. A single laser alignment kit can be used to do one rail or two kits can be used so both rails can be done simultaneously.
2. Once the laser mounting bracket is positioned you can bolt the laser unit to the bracket using the hardware provided. You can fine tune and adjust the laser once it is mounted on the bracket by using the large diameter thumb screw located between the mounting bracket and the U-bracket. Note that bolting the laser to the floor may provide you with the most stable mounting, bolting it to the rail may cause the beam to bounce as you stack and adjust your rails. When the laser is mounted to the floor you should attach the laser target gauge to the first rail and position it so the laser beam strikes the target in the center. When the laser is mounted directly to the rail the final adjustment of the laser is made by securing the laser target gauge to the rail, just slightly above the mounted laser, then adjusting the laser to insure the beam strikes the center of the bull's-eye on the laser target gauge.
3. Once the above two steps are complete you can continue to stack and align your rails. Clamp the laser target gauge to the rail as each desired location and adjust the rail until the laser beam strikes the center of the target. Note that as you get farther away from the laser source the beam will become bigger and more refracted. If this causes you concern simply move the laser unit up with you as you go, re-clamping it to the rails closer to where you will be taking your readings with the laser target gauge.
4. Note that the laser alignment gauge sets the rails so they are plumb, some additional gauges are required to insure the rails are set the correct distance apart (DBG) and that they are faced properly.