# WALL CLOCK KIT - VERA 



A clock is a precision mechanical instrument containing hundreds of slowly moving parts. There are over a hundred points of contact where friction works to bring it to a stop. Building any clock is challenging, and wood clocks are no different.

Take your time assembling this kit, and pay attention to the details. Great pains have been taken to craft these instructions to ensure your success. If there are any steps that seem unclear, please let us know.

Before you begin, check that there are no missing or damaged pieces in the kit. A parts list is provided to help identify each piece.

The tips and tricks section includes suggestions distilled from years of building in wood. A few minutes of reading can make a significant difference in how well your finished kit looks and operates

Finally, read through all the instructions before you begin. It will help you understand how the various pieces fit into the final product.



DAMAGED OR MISSING PARTS? email: service@abong.com

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Hardwood Part (Laser Cut)
LEGEND Plywood Part (Laser Cut) Miscellaneous Part

Assembly From Previous Step

## 2 TIPS AND TRICKS


4. To sand holes and smaller openings, tear a small strip of sandpaper and tightly roll it into a cone shape small enough to fit. Work the sandpaper into the opening, twirling it as it is moved in and out.
5. The decorative dark edge left by the laser cutting process is caused by natural resins in the wood. It is sticky, and does not bond well with glue. Lightly sand the dark edges that will be glued to expose the wood beneath. Don't forget that holes need to be sanded too! Before applying glue, always test the fit of the parts, carefully sanding to make any adjustments neccessary.
6. Use a quality PVA (polyvinyl acetate) carpenters glue for joining wood pieces. For gluing wood to carbon fiber, use CAglue. The appropriate glue will be indicated using the symbols shown. Place a little glue onto a piece of wax paper, and use a craft stick, toothpick, or scrap of cardboard to apply the adhesive. Remove any excess with a damp paper towel before it sets.
7. Wherever parts slide or rotate against each other, carefully sand the dark edges and apply graphite as a lubricant. Standard pencil "lead" is made of graphite, and works very well for this purpose. A suitable pencil has been supplied with the kit.
8. If you wish to apply a finish to the kit, teak oil is a simple and effective method. Carefully apply the oil to completed components before assembling them further. Avoid getting finish onto any edge or surface that will be glued or have graphite applied in later steps. Painting the hour and minute hands in a dark color makes the clock easier to read.

## 4 PARTS LIST

Counterweight Face


## 6 PARTS LIST




## 8 JIG ASSEMBLY




1. Each of the wheels will be assembled using the jig. A set of three 4 " quick grip clamps will make these steps easier, however painter's tape or weights can also be used to keep the largest wheel pressed firmly against the jig, and properly aligned with the shaft.

2. The hour wheel is the last stage of the dial train, slowing the hour hand down to one complete rotation once every twelve hours.

3. Applya thin layer of glue to the Hour Hand Spacer (AU) and the unmarked side of the Hour Hand (BQ).


## 10 WHEEL ASSEMBLY


8. The Hour Idler slows the motion of the clock's hour hand, and ensures it turns in the same direction as the minute hand

13. Allow the glue to dry before removing the completed Hour Idler. Lay it on a flat surface to check that it is not warped.

