

## CHAPTER 1 - PRODUCTION OF THE WOOD STANDS



### 1-1 SAFETY RECOMMENDATIONS:

Before starting any type of manufacturing and/or assembly operation, the assembler of the **V400** Kit shall PREPARE the workshop with all the transport and lifting devices of loads, benches and tools suitable for this type of operation.

USE **PERSONAL PROTECTIVE EQUIPMENT**, safety goggles and boots, ear protectors, face shield and gloves, if necessary, during the manufacturing and assembly period.



DO NOT start any operation without these preparations for safety.

### 1-2 INTRODUCTION:

The success of the assembly of the **V400** will depend on the preliminary care that the assembler must carry out before any operation.

Before removing the **V400** Kit from the container or over the transport (truck), the assembler shall manufacture the 4 types of WOOD STANDS (**A**, **B**, **C** and **D**), so that the assembly is safer and more correct of fuselage and wings. SEE the figures 1-6a, 1-6b and 1-6c for use of WOOD STANDS during assembly.

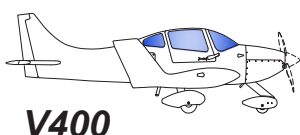
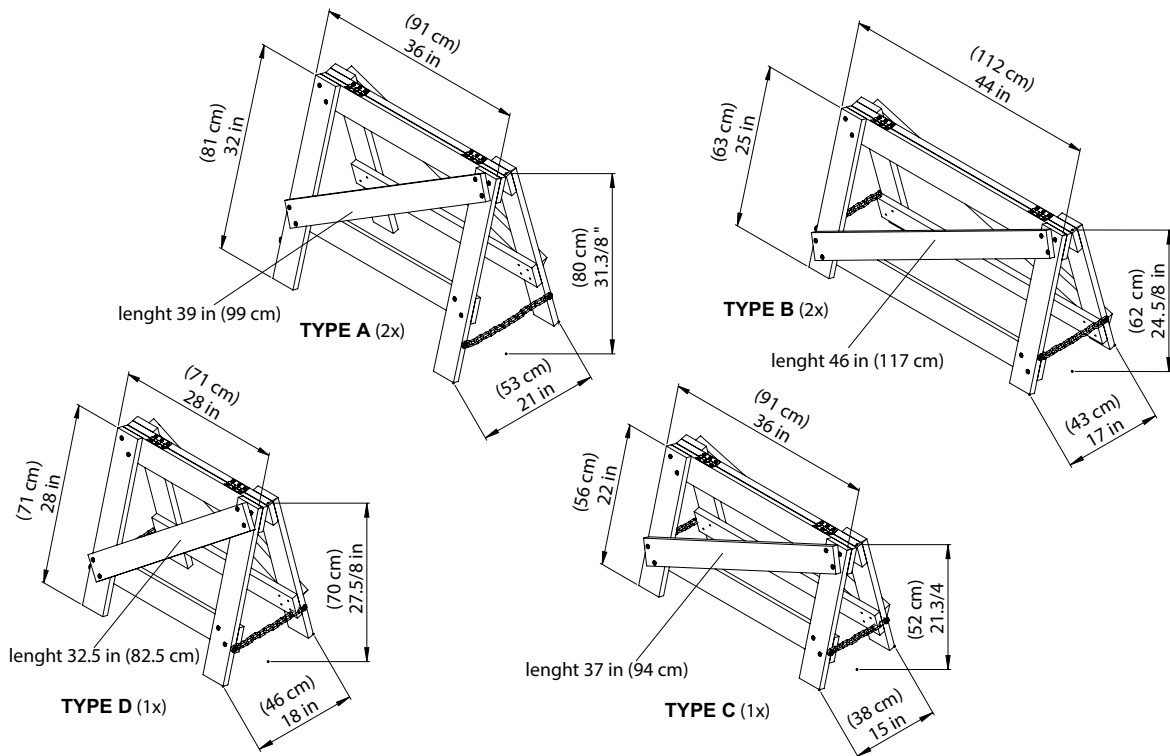


Figure 1-1 illustrates the 4 types of WOOD STANDS to be manufactured.



**FIGURE 1-1 - WOOD STANDS TYPES**

### 1-3 MATERIAL:

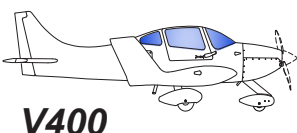
- plywood or spruce wood plates with 1" thickness, cut to the width of 4", dry and with good quality, without warping, in the following lengths:
  - 04 pieces of 22.0 in;
  - 08 pieces of 25,0 in;
  - 08 pieces of 28,0 in;
  - 08 pieces of 32.0 in;
  - 02 pieces of 32.5 in;
  - 12 pieces of 36,0 in;
  - 02 pieces of 37.0 in;

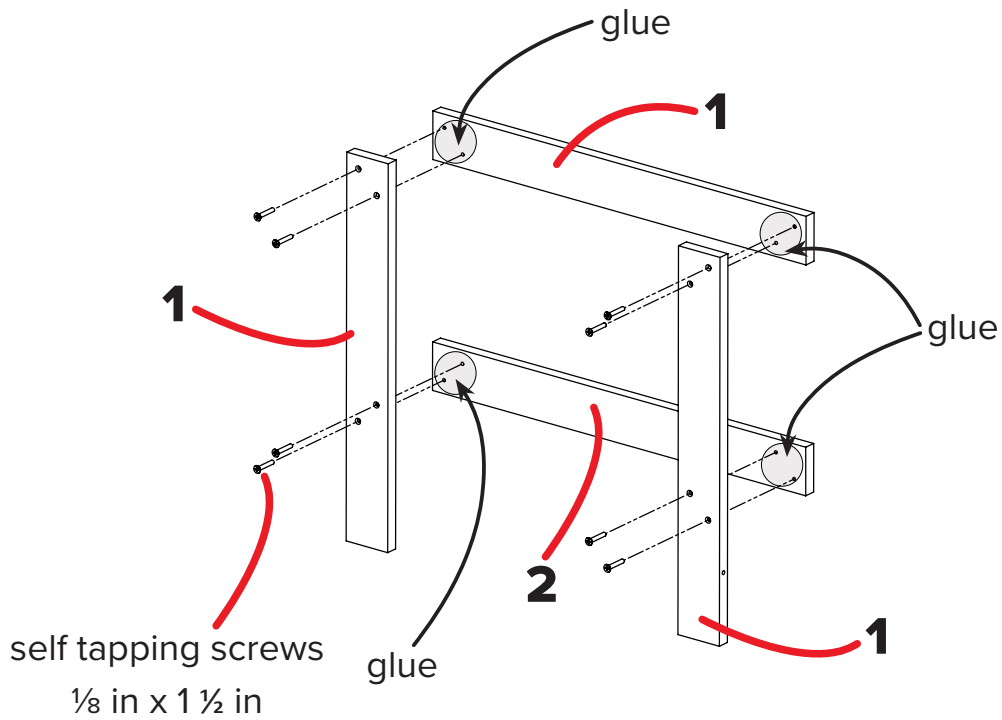
- 04 pieces of 39.0 in;
- 08 pieces of 44.0 in;
- 04 pieces of 46.0 in.
- about 80 self tapping screws for woods  $\frac{1}{8}$  in x  $1\frac{1}{2}$  in
- about 80 self tapping screws for woods  $\frac{1}{8}$  in x  $2\frac{1}{2}$  in;
- about 30 self tapping screws for woods  $\frac{1}{8}$  in x 1 in;
- about 30 flat washer M4 (metric);
- 8 hinges 2 in x  $\frac{3}{4}$  in or equivalent;
- 17 ft (5 m) of  $\frac{1}{16}$  in wire chain or equivalent;
- glue for wood of the Polyvinyl Acetate type – PVA or Epoxy, according to the preference of the assembler;
- power tool – screwdriver, circular saw, planer;
- hand tools.



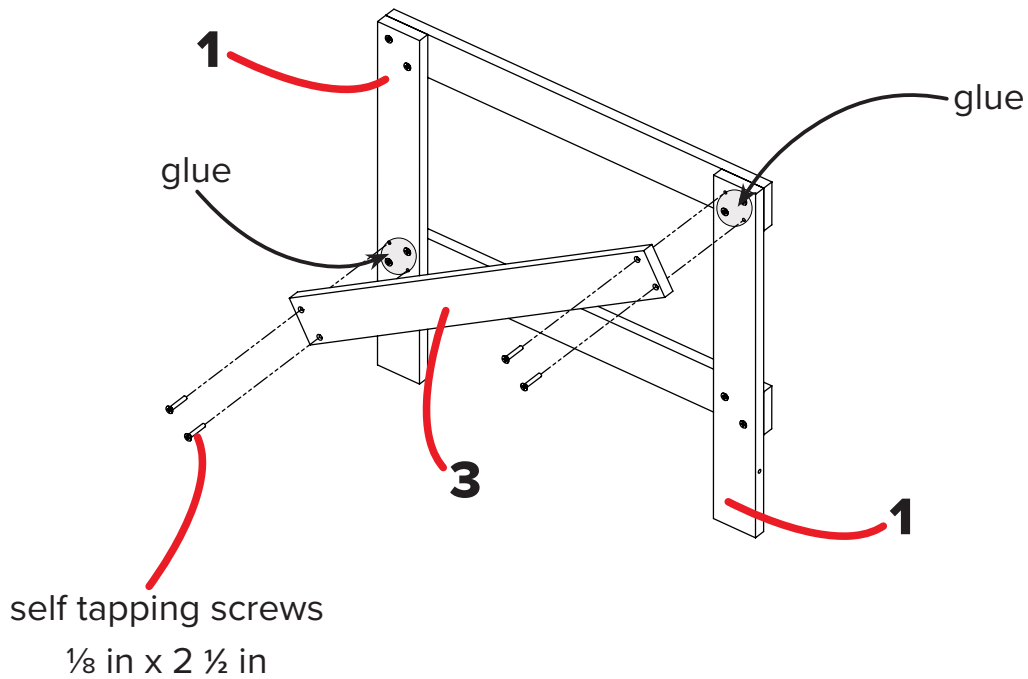
#### 1-4 PROCEDURES:

1. PREPARE a bench large enough to assemble the WOOD STANDS;
2. JOIN with glue and with 2 self tapping screws per end, the Legs (1) with the Platter (2) (figure 1-2);
3. JOIN with glue and with 2 self tapping screws  $\frac{1}{8}$  in x  $1\frac{1}{2}$  in per end the Platter (3) on the Legs (1) (figure 1-3);
4. ASSEMBLE 2 Hinges (4) on the Platter (2) with self-tapping screws  $\frac{1}{8}$  in x  $2\frac{1}{2}$  in (figure 1-4);
5. CUT 12 pieces of Chain (5) in the length of 18 in;

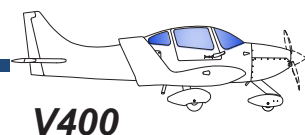




**FIGURE 1-2 - LEG (1) x PLATTER (2) ASSY**



**FIGURE 1-3 - PLATTER (3) x LEG (1) ASSY**



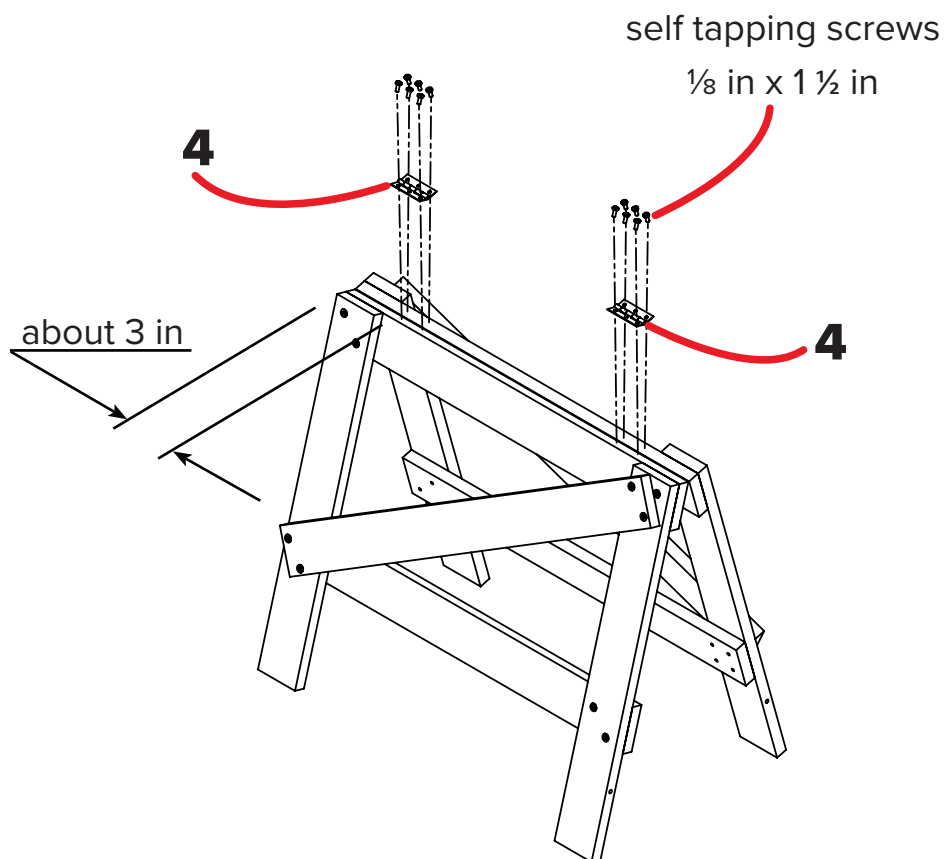
6. FIX the ends of the Chain (5) on the Legs (1) on each side of the WOOD STANDS, with self tapping screws and washers, according to Figure 1-5;



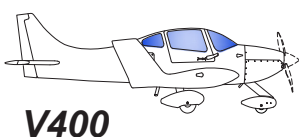
**OBSERVATION:**

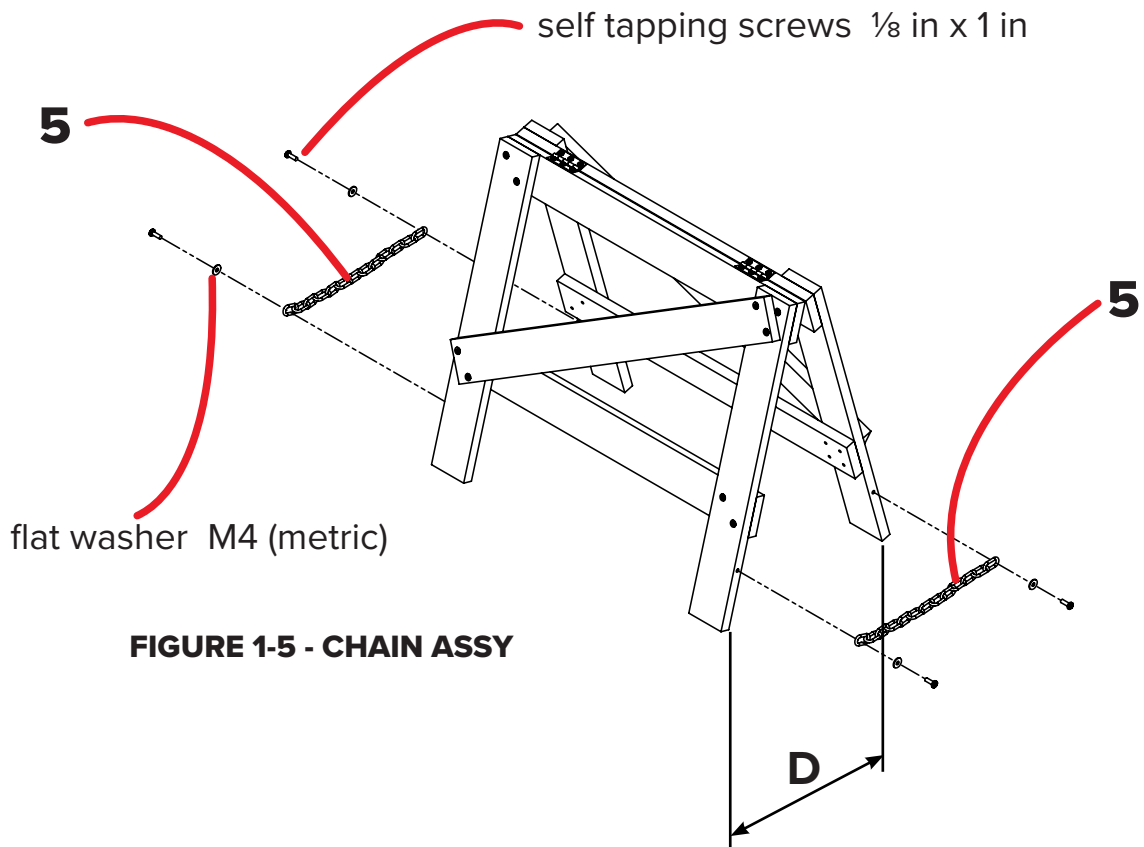
- KEEP the open dimensions of each type WOOD STANDS, as shown in Figure 1-1.

7. KEEP these WOOD STANDS in a place protected from rain and sun.



**FIGURE 1-4 - HINGES ASSY**



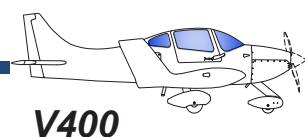


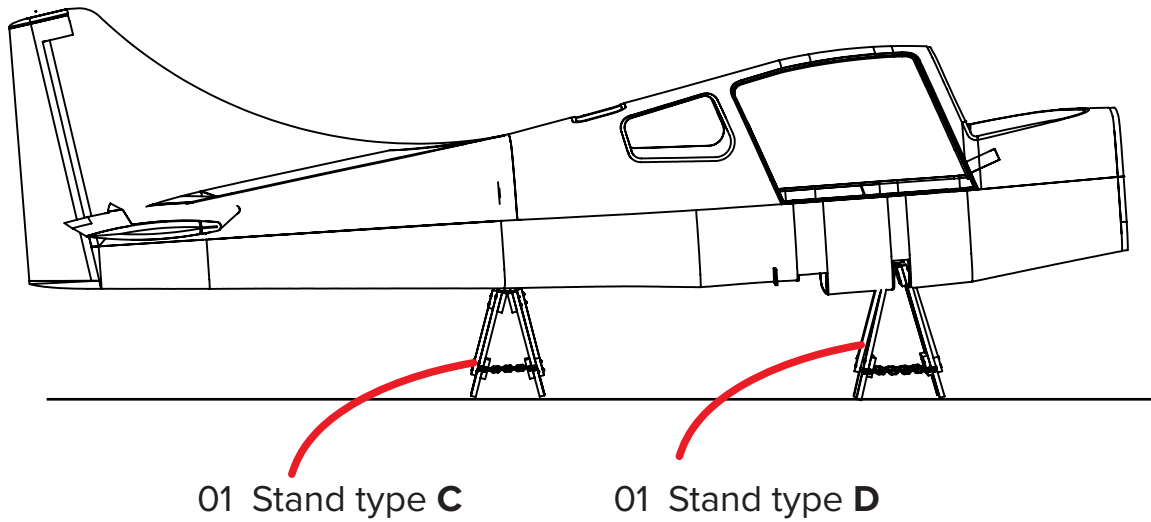
**FIGURE 1-5 - CHAIN ASSY**



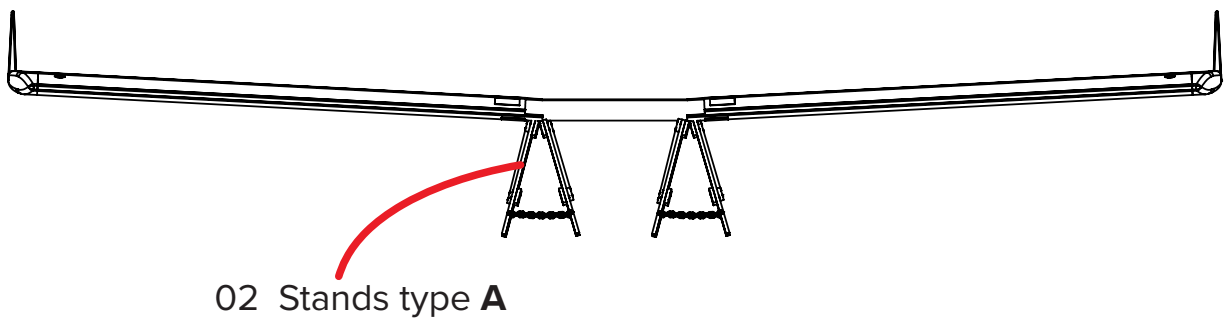
**OBSERVATION:**

- KEEP the dimension **D** (figure 1-5) according to figure 1-1 for each type WOOD STAND.

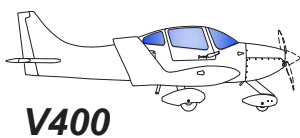


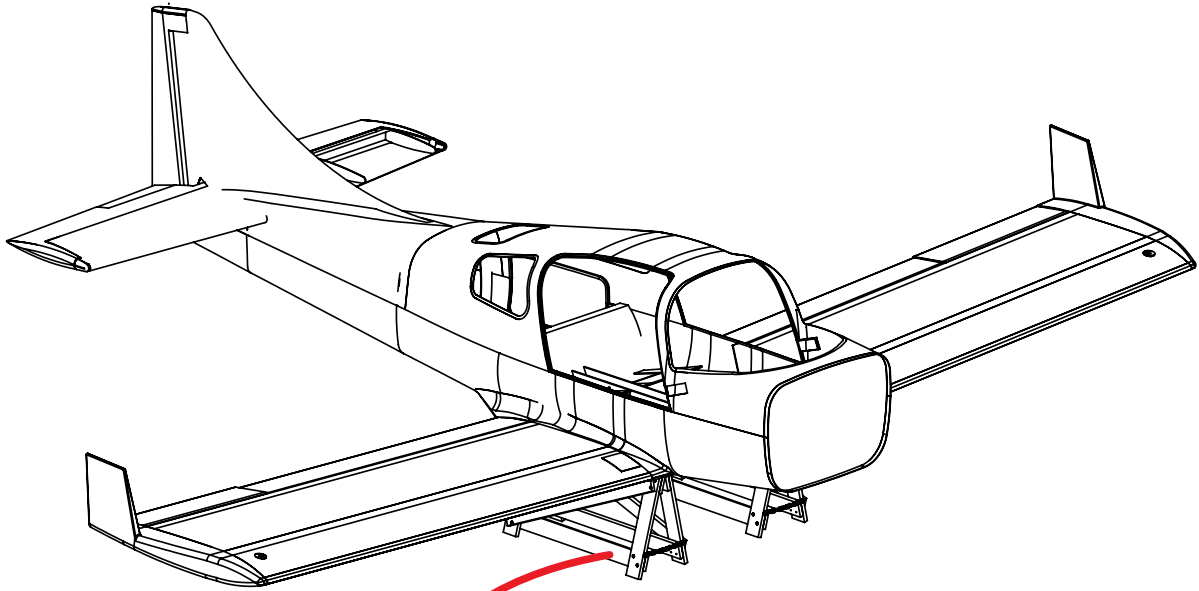


**FIGURE 1-6a - WOOD STANDS TYPES B AND C POSITION**



**FIGURE 1-6b - 2 WOOD STANDS TYPE A POSITION**





02 Stands type **B**

**FIGURE 1-6c - 2 WOOD STANDS TYPE B POSITION**

