WOOD THAT WORKS
DAVE & MARJI ROY

SOLITAIRE

Over-lapping Square Wheels

Lubricate Here

Gear

Hooks A & B

Pulley

Pulley

Weight Pulley

Hook

Heavy Weight

Weight Pulley

Hook

Weight
Directions:

To Mount on Wall:
1. Unscrew the sculpture from the backboard-template.
2. Hold the template in the desired location against a wall. Level the bottom edge. Place a sharp instrument through the marked mounting screw holes, marking their location on the wall.
   Note: The proper height is one from which viewing and winding is comfortable.
3. Drill pilot holes. If the wall sheetrock or plaster use the plastic anchors provided by drilling 3/16" holes and driving the anchors into place.
4. Mount the sculpture using round-headed brass screws, 1½" or longer.
5. Remove the masking tape that holds the string in place.

To Suspend the Drive Weight
1. Place the two weights on the floor below the sculpture. With the heavy weight on the right.
   The small hooks on the weights should be on the outside edges (see diagram).
2. Tie a small loop in one end of the string provided. Loop this over the small hook on the heavy weight. Bring the string up and over the small pulley on the right side of the sculpture, down under the pulley on the heavy weight, up and over the pulley in the center of the gear. Cut this end of the string about 18" below the bottom edge of the gear.
3. Tie a loop in this end of the string. Hold the light weight and pass the string under the pulley on the light weight, up and over the pulley on the left of the sculpture and hook it on the hook on the light weight.

To wind:
1. Flip wood hooks A & B over so they rest on the top of the gear.
2. Gently raise the heavy weight until the light weight reaches the floor.
3. While still holding the heavy weight, flip the wood hooks back over and hook the front one onto the gear tooth. Release the heavy weight.
4. Make sure the strings are running over their pulleys.

To Start:
The motion should start when the weight is released. If it doesn't give a slight push to either of the square wheels.

The Motion:
The two overlapping square wheels rotate 180° in both directions. At times they will build up speed by moving "in step" for a few turns. This rhythm will then be broken and a random motion will follow until the wheels get in step again.

Care and Maintenance:
If the sculpture begins to stop before the weight reaches the floor for no apparent reason, the bearings may need to be lubricated. To do this:
1. Remove the weights.
2. Unscrew the sculpture from the wall and place it on a horizontal surface.
3. Apply a few drops on 3 in 1 oil (light machine oil) at the points noted in the diagram. Move the wheels back and forth to allow the oil to be absorbed into the bearings.
4. Remount and resuspend weights.
Care and Maintenance (cont)

Note: There are several adjusting screws on Solitaire. These have been adjusted by David and have been screwed tight. They should not be altered.

Please let me know if you have any trouble with these directions or the sculpture in general. Comments help me to update the directions and correct any problems that occur.

Storage and Shipping

Please save the shipping box and backboard to aid you when moving, storing or shipping your sculpture. The box can be collapsed for easy storage.