

WOOD THAT WORKS

DAVE & MARJI ROY

SHADOW DANCE



Large Wheels C & D

Lubricate Here

ARM B

Wooden Hook A

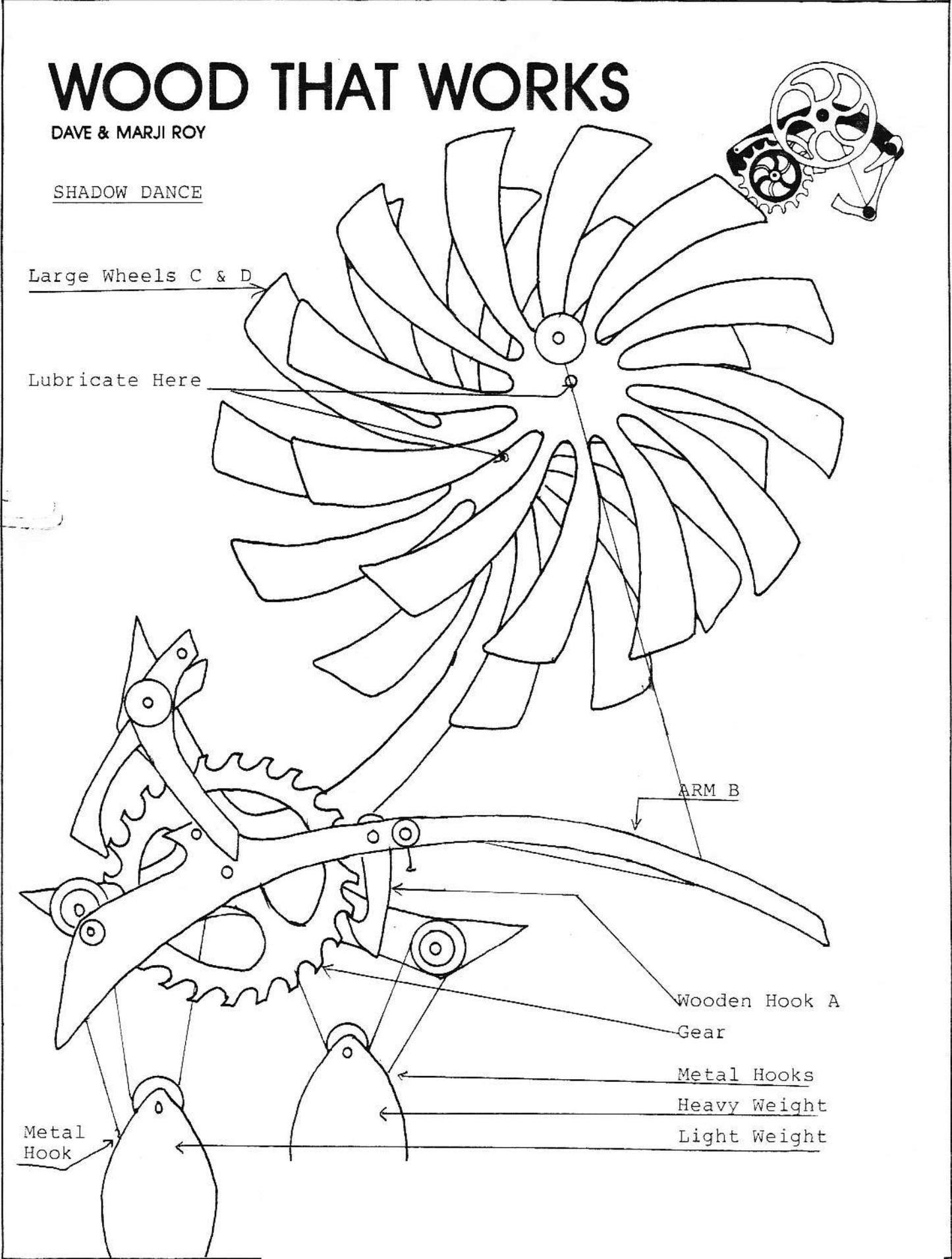
Gear

Metal Hooks

Heavy Weight

Light Weight

Metal Hook



SHADOW DANCE

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 is sheetrock or plaster use the plastic anchors provided by drilling a 3/16" hole 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. Grasp the light weight and gently pull straight down while holding wooden hook A away from the gear and pushing up on Arm B. Pull the light weight half way down and rehook Hook A to the gear.
2. Now lift the heavy weight while holding Hook A as before. Rehook the hook when the light weight reaches the floor.

To Start:

1. The motion should start when the weight is released after winding. If it doesn't give a slight downward push to Arm B.

A Description of the Motion:

Large Wheels C & D move about their own centers and each other in random patterns that are both controlled and powered by Arm B and the gear and ratchet mechanism. The motion can be either slow or fast depending on the type of patterns the sculpture is in.

Care and Maintenance:

If the sculpture begins to stop for no apparent reason before the weight reaches the floor, the bearings may need to be lubricated. To do this:

1. I use Tri-Flow Spray Lubricant distributed by Costa Mesa Lubricants, Inc., Costa Meas. Ca.
2. Using the plastic extension nozzle spray a small amount of the lubricant directly onto the bearings in the places noted in the diagram. Remove excess. Reapply if necessary.
3. DO NOT use spray silicon or WD-40.