Model Engine Parts List

Engine Base: 5" x 8 ¾"
Cylinder Support: 9" x 2 ½"
Crankshaft Support: 2" x 10 ¼"
Crank Bearing: 1 ¼ " x 1 ¼ " (need 2)
Spacer Plate: 5" x 2 ¼"
Crankshaft: 7" (wire)
Flywheel Spacers: 1" x 1" (need 4)
Flywheel: CD (need 2)
Piston: Ping pong Ball
Connecting Rod: ¼ " Dowel, 4 ¼ " Long
Cylinder: Toilet Paper Roll, 4 ½ " Long

DIRECTIONS:
Cut out the pieces of cardboard listed above.
Cylinder Support and Crankshaft Support: Measure and bend the cardboard as shown on the illustration.
Assemble and glue the pieces together as shown.
STEP ONE: Glue cylinder and crankshaft supports to engine base.
STEP TWO: Install Spacer Plate and Crank Bearings on BOTH SIDES of Crank Support.

Crank Bearing (0.375"
on other side).
STEP THREE: Build the crankshaft by bending a 7" long piece of wire as shown. ***NOTE*** You must put the connecting rod in before you finish!!!

CONNECTING ROD GOES HERE!
Step Four: Glue the Piston onto the connecting rod.