

MECHANICAL CLOCK KIT

SAMPLE ONLY!

The kit is supplied with a 24 page hi-res full color booklet

ABONG
 incorporated

SOME NOTES BEFORE YOU BEGIN:

ASSEMBLE THE KIT ON A LARGE, FLAT SURFACE.

WOOD GLUE, A RAZOR SAW, AND COUNTERWEIGHT MATERIAL (2.2KG OR 5LBS) ARE REQUIRED TO COMPLETE THE CLOCK.

READ ALL INSTRUCTIONS CAREFULLY, IDENTIFYING THE PIECES FOR EACH STEP USING THE ILLUSTRATIONS AND IDENTIFICATION MARKINGS.

HAVE FUN!

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PARTS LIST
PALLETS AND CRUTCH
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32 Tie the counterweight cord to one of the alignment pins. Apply glue to the rewind spool (W) and rewind thumbwheel (X) as shown and press them into place.



33 Trim the alignment pins flush with the thumbwheel and sand the surface smooth.



34 Flip the minute wheel assembly over on the jig, and glue the minute wheel pinion (Y) and minute wheel front spacer (Z) into place as shown.



35 The finished minute wheel is shown.



PALLETS AND CRUTCH

36 Use sandpaper to gently remove any laser residue from the pallet (AA) working faces as shown. Do not alter the shape or angle of the pallet faces.



37 Use the pencil to apply graphite to the working faces.



38 Place the pallets onto the wheel assembly jig marked side down, and glue an alignment pin and the pallet arm (AB) into place as shown.



39 When the glue has dried, attach the crutch (AC) to the pallet arm by gluing a peg in place as shown. Leave a gap under the head of the peg roughly half the thickness of the crutch, to ensure it can move easily.



40 Trim the alignment pin and peg flush as shown.

WHEEL ASSEMBLY

PENDULUM AND

PARTS LIST

COUNTERWEIGHT PULLEY

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2 ALIGNMENT PINS
(AS) PULLEY FLANGES
(AR) PULLEY CORE

FACEPLATE

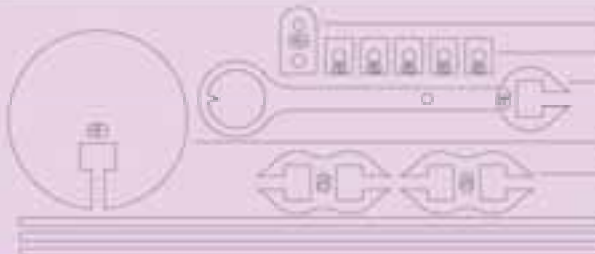
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3 ALIGNMENT PINS
(AL) MINUTE HAND
(AJ) HOUR HAND
(AK) SECOND HAND
(AM) DECORATIVE CAP (RIGHT)
(AN) DECORATIVE CAPS (LEFT)

PENDULUM

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(AH) BOB CONNECTOR
(AG) DOWEL CONNECTORS
(AE) UPPER PENDULUM
(AF) PENDULUM BOB
(AD) PENDULUM JOINERS
PENDULUM DOWELS

ALSO REQUIRED:
ADJUSTMENT
SCREW



COUNTERWEIGHT PULLEY

41 Apply glue to the marked area of both pulley flanges (AS). Place one piece marked side up on the wheel assembly jig, insert two alignment pins, and then assemble the pulley core (AR) and the second flange (AS).



42 Allow the glue to dry and trim the alignment pins flush as shown.



43 The completed counterweight pulley is shown.



FACEPLATE

44 Apply glue to the areas indicated. Using the alignment pins, assemble the faceplate, and position the decorative caps as shown.



45 Once the glue has dried, trim the alignment pins flush, and sand the surface smooth.



46 The completed faceplate is shown.

COUNTERWEIGHT

(AO) TOP CAP



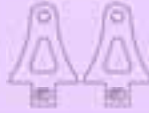
(AP) BOTTOM CAP



(AQ) CENTERING RINGS



(AT) PULLEY BLOCKS

**ALSO REQUIRED:**

COUNTERWEIGHT TUBE

2.2KG COUNTERWEIGHT MATERIAL (NOT INCLUDED)

FINIAL

COUNTERWEIGHT

**PENDULUM**

47 Apply glue to the dowel connectors (AG) and pendulum bob connectors (AH) and assemble the upper pendulum, pendulum bob, and pendulum joiners as shown.



48 The assembled component parts are shown.



49 Glue one of the pendulum dowels into the upper pendulum as shown.

COMPLETED PENDULUM
not to scale



(X2)

50 Use the pendulum joiners to connect the remaining two pendulum dowels as shown.



51 Glue the pendulum bob to the remaining free dowel end. Ensure the joiners, upper pendulum and bob all lay flat, with the markings facing up.

**COUNTERWEIGHT**

52 Apply glue to the pulley mounts (AT) and centering rings (AQ) as indicated. Using the rings marked on the upper cap (AO) and lower cap (AP) as a guide, assemble the counterweight upper and lower cap assemblies.



53 Using a generous amount of glue, join the upper and lower caps to the counterweight tube.



54 When the glue has dried, fill the counterweight through the hole in the bottom cap. Use BBs, metal shot, or small fishing weight to achieve a minimum weight of 2.2kg (5lbs).



55 Apply glue to the finial and use it to plug the hole in the bottom cap.