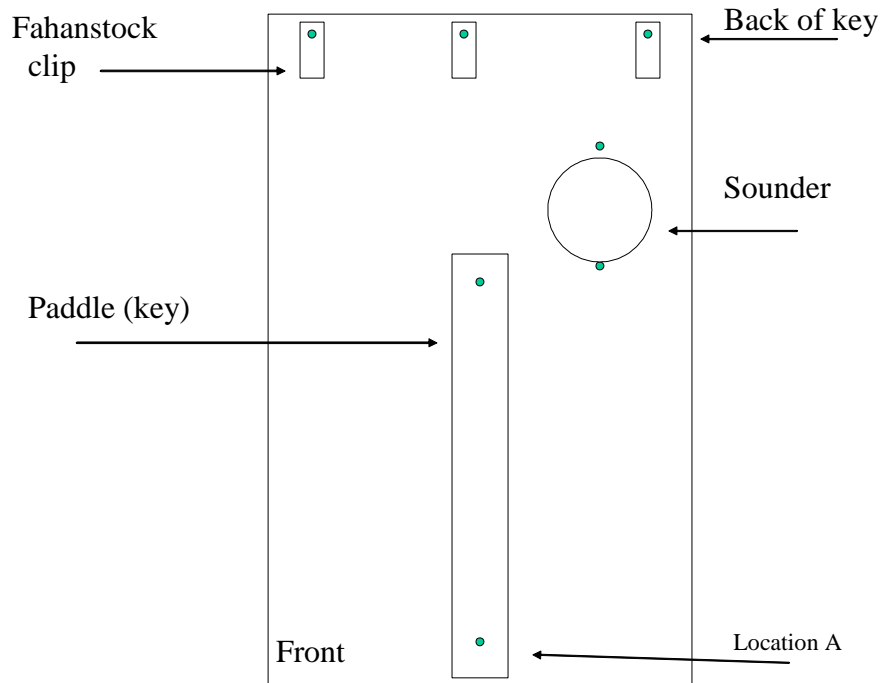


# Burbank Morse Code Set



## Material List:

9V (volt) battery, 7 screws, 3 fahnestock (fahnestock) clips (Radio Shack or online at [www.learningthings.us/acatalog/fahnestock\\_clips.html](http://www.learningthings.us/acatalog/fahnestock_clips.html)), 2 wires (10 inches of red 20 or 22 gauge solid strand wire, 18 inches of black 20 or 22 gauge solid strand wire), 1 battery connector, 1 sounder unit, 1 copper key (paddle), 1 wood block about 8 inches long, 3 1/2 inches wide, 3/4 inches thick, 1 washer (Many of these items can be purchased at Radio Shack)

Assembly instructions for your Morse key.

1. Locate parts required: 7 screws, 3 fahnestock clips, 2 wires (one long and one short), battery connector, sounder unit, copper key (we call it a "paddle"), 1 washer, wood base.
2. Mount the fahnestock clips with three screws. Tighten screws snug, but not real tight, since the wood will give way. Orient the clips to point toward you.
3. Orient the wood block so the three screw holes are away from you. This is the normal position of the key when you use it.
4. Mount the sounder with two screws (wires exit on left side). Again, do not tighten since plastic will break.
5. Place washer on a screw and place in location #A. Leave screw and washer loose for now (a wire will be place here soon)
6. Locate the long wire, and wrap (once around) one end around the screw and washer you just installed. Be sure the wire is under the washer. Tighten up the screw to keep the wire under the washer.

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7. Mount the copper key with the remaining screw. Before you tighten up this screw slip one end of the short wire under the copper key next to the screw. Just slip the copper part of the wire under the “paddle”, the black insulation should not go under the copper “paddle” unit. Tighten up this screw to hold the wire in place. Make sure the copper “paddle” is parallel to the mounting block.
8. Install the free end of the short wire under the left fahnestock clip. Press down on the clip and trap the wire under the little “tongue” to hold the wire in place.
9. Install the free end of the long wire under the right clip.
10. Add the **black wire** from the sounder under this right clip also. Now there will be two wires on the right clip.
11. Install the **red wire** from the **sounder** to the **middle clip**.
12. Slip the **red wire** from the **battery connector** to the **middle clip**.
13. Skip the **black wire** from the **battery connector** to the **left clip**.
14. Verify your wiring: each clip should have two wires each; there are no free (unconnected wires waving around)
15. Have someone check your wiring and screw tightness.
16. Get some help and slip a short piece of wire or a toothpick under the “paddle” to raise it up slightly. You should get some slight movement of the paddle as you tap on the top of the end near you. If not, move the wire you slipped under the paddle closer to the rear mounting screw to raise the front of the “paddle”.
17. Obtain and install a battery.
18. Have fun with the Morse code!