

MK-108 Easy to Make Your Original Voice Message Card! Ultrathin 10 seconds Voice Recorder Board Assembled by MYCOMKITS.com is a recording/playback board (assembled board and no need for soldering, with a microphone, speaker, battery, record button, and play button) that lets you easily make original voice message cards. Voice messages can be sent by attaching it to greeting cards such as birthday cards with the double-faced tape on the reverse side. Its uses are limitless. You can record a "happy birthday", children can record a "welcome home" for their fathers who come home late at night, and girlfriends can record "how are you doing?" and attaching it on a framed photos of themselves for their boyfriends. You can even use it as a memo when going out shopping by recording what you need to buy, or use it as a bookmark by attaching it to the book you are reading and telling yourself what page you left off on. All you need to do is press the record button and speak into the internal microphone to record a message. Messages are recorded at sampling frequencies of approximately 6.4KHz using a COB (chip-on-board) type recording and playback IC chip mounted directly on the board.

FEATURES:

- Non-volatile flash memory
- No battery back up required
- User friendly, easy to use operation
- 2-keys operation, record and play back
- Low power consumption (about 25mA during operation, about 5µA during standby)
- Miniature microphone
- Automatic power down function (about 0.5µA in power consumption)
- Runs on three LR1130 or equivalent button cells (comes with test cells)
- Board size: about 40mm×29mm×6mm, speaker: about 40mm, buttons: about 6mm×6mm

Instruction:

Check to see that the three button cells are not removed from the battery holder.

Remove the double-faced tape on the reverse side and make sure it operates properly before attaching it to your greeting card.

Remove the protective sheet (see next page) that is on one of the button cells before using the product. This connects the batteries and allows the product to be used.

1. **Double-faced tape** -- Remove the double-faced tape and attach the board of the main body, speaker, and buttons (record and play) to where you want it such as on a card or picture frame (Note! There is no double-faced tape on the record and play buttons so please cut out your own mounting).
2. **Recording** -- Keep the record switch (the button with the red wiring) pressed down while recording

your message. Speak into the microphone (see fig. below) from about ten centimeters away. The recording will automatically stop after ten seconds. If there is a message recorded previously, press REC will erase the previous and record the new one.

3. **Playback** -- The recorded message can be played back from beginning to end when the play switch (the button with the blue wiring) is pressed. If the newly recorded message is shorter than the previously recorded message, the remaining portion of the previous message will be erased. (Note! A slight hissing noise is produced during playback. There may also be a clicking noise at the end of the message.)
4. **Standby** -- The product will automatically be on standby mode after recording or playing back.
5. **Disabling rerecording** -- There may be times when you do not want messages to be rerecorded when using the product for a birthday card or other greeting card. In such cases, disconnect and remove the record switch (the button with the red wiring) and miniature microphone (it may be directly attached to the board). When removing them, be sure to do so one at a time with the batteries removed and as close to the board of the main body as possible (Never remove two at a time. Doing so may result in a connection; leading to a temporary recording and erasure of your message).

Precautions:

- Please note that the product may come with recorded sounds from outgoing inspections.
- MK-108 10-second voice recorder board by MYCOMKITS.com does not come in a case. Handle the product with care and do not cut the wiring or bend the parts as it comes only as the circuit board shown in the photos. **Make sure that children do not put electrical components (condenser, button cells, microphone, speaker, etc.) into their mouths.**
- Beware of short circuiting when replacing the button cells (LR1130 or equivalent button cells). They can be removed by pressing on them with an insulated rod. Insert them with the plus sides facing up and the minus sides facing down.
- The leaf springs for button cells that are in storage may weaken or have poor contact. In the worst case, the product will fail to operate. Press down on the leaf springs softly with an object such as a pair of tweezes if this happens. (refer to the closeup photo on the next page)
- The buttons or batteries may have poor contact in areas with high levels of humidity.
- The button cells (LR1130 or equivalent button cells) may fall out due to shock during shipping. Keep them in place with a material such as

adhesive tape or silicon rubber when using the product for a gift such as a birthday card.

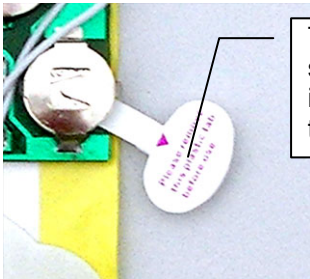
- **Keep the product away from magnetic cards such as credit cards and ATM cards** as the speaker contains a powerful magnet. **The magnet can erase the data recorded in magnetic cards.**

Contact us at the email address below if you have any questions. support@mycomkits.com

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Ultrathin 10 seconds Voice Recorder Board Assembled

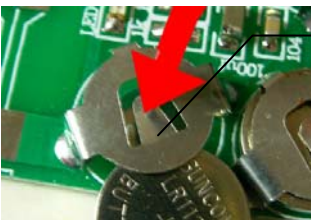
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Enlarged photo of the button cell part



The protective sheet. Remove it before using the product

Enlarged photo of a leaf springs that keeps a button cell in place



Press down on the leaf spring if there is poor contact or the button is loose. **Note: the product will fail to operate if there is poor contact**

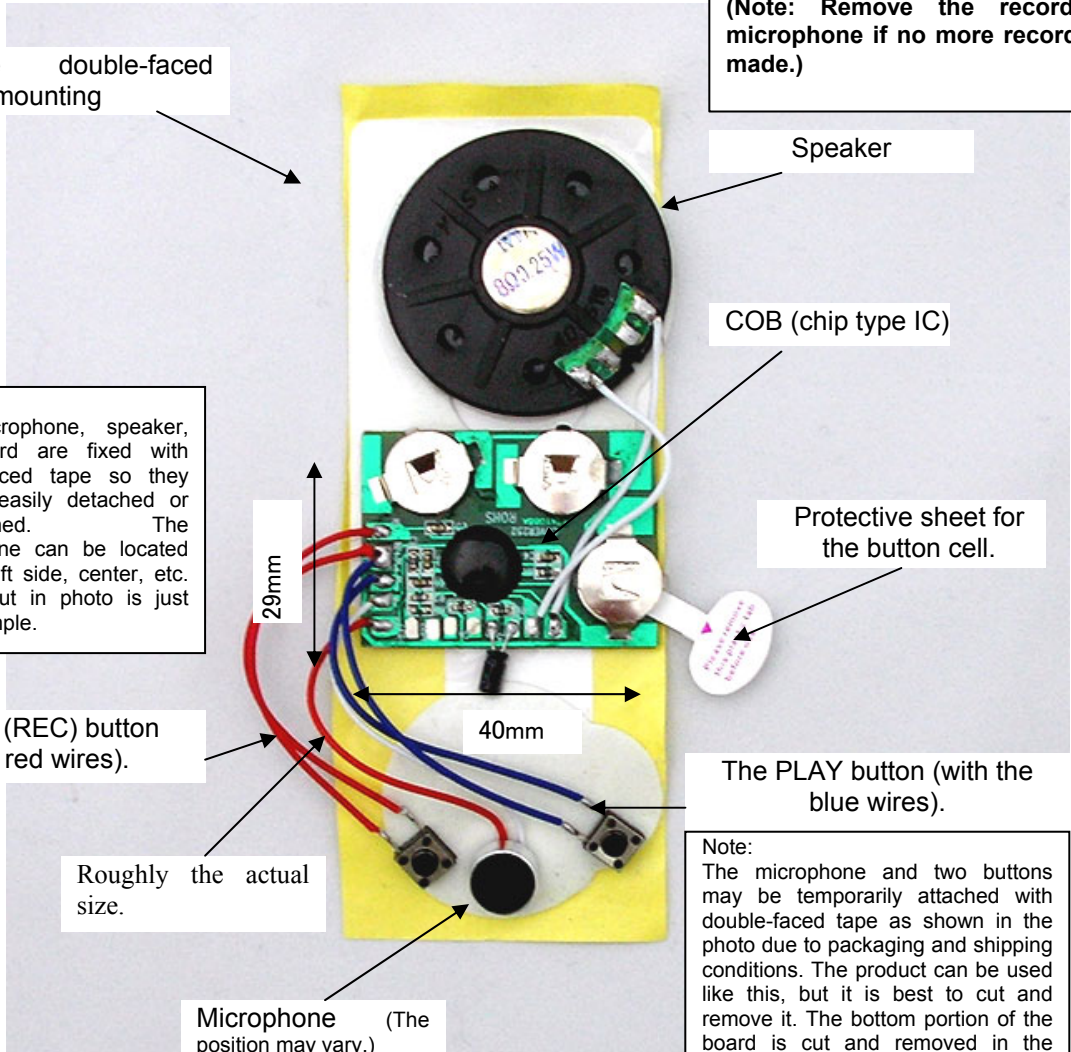
Top view

Attaching it to a card



Attaching the product to a card:
 1. Remove the double-faced tape appropriately and position the components.
 2. Remove the wax sheet on the other side.
 3. Attach it to a message card.
 4. Apply a small amount of glue to the edges to keep the covering paper in place.
 5. Cover lightly so that no components such as the play switch are pressed by the paper. (Note: Remove the record switch and microphone if no more recordings are to be made.)

Large double-faced tape mounting



Note:
 The microphone, speaker, and board are fixed with double-faced tape so they can be easily detached or repositioned. The microphone can be located on the left side, center, etc. The layout in photo is just one example.

Protective sheet for the button cell.

The record (REC) button (with the red wires).

Roughly the actual size.

Microphone (The position may vary.)

The PLAY button (with the blue wires).

Note:
 The microphone and two buttons may be temporarily attached with double-faced tape as shown in the photo due to packaging and shipping conditions. The product can be used like this, but it is best to cut and remove it. The bottom portion of the board is cut and removed in the upper-right photo.