



# FUTURE KIT

HIGH QUALITY ELECTRONIC KITS

วงจรเสียงไก่ 3 เสียง (ไก่ขัน, ถูกไก่, ไก่ตัวเมีย)  
3 CHICKEN SOUND (COCK, CHICKEN, HEN)  
CODE 1302  
LEVEL 1

The 3 chicken sounds of the FK1302 was programmed by using the IC OTP type (One-Time Programmable). This circuit can make louder sound by connecting with the amplifier FK1301. It is suitable for toy, novelty and entertainment applications.

#### Technical Specifications

- Power supply : 3-6VDC.
- Consumption : 18mA. (standby), 280mA. (working) @ 4.5VDC.
- Using FK1301 as an amplifier.
- PCB dimensions : 1.57 x 2.19 in.

#### How does it work?

The circuit diagram is shown in Figure 1. The pin 7 of IC is connected to the base of TR1 in order to amplify the voice through speaker. The pin 8 of IC is connected through RX and VR1 to control the value of frequency. The pin 10,11 and 13 of IC are for selecting the voice.

#### Circuit Assembling

External connecting and fitting of components are shown in figure 2. It is recommended to assemble the circuit starting with a less height component i.e. diodes, resistor, electrolyte capacitors and transistors etc. Be careful while assembling and check for the matching of PCB poles and components before soldering as shown in Figure 3. Use a max. 40W. solder and soldering lead with a tin and lead ratio of 60/40 together with a joint solution inside. Recheck the assembled circuit for your own confidence. Better using a lead sucker or a lead wire absorber in case of misplacing component to protect PCB damage.

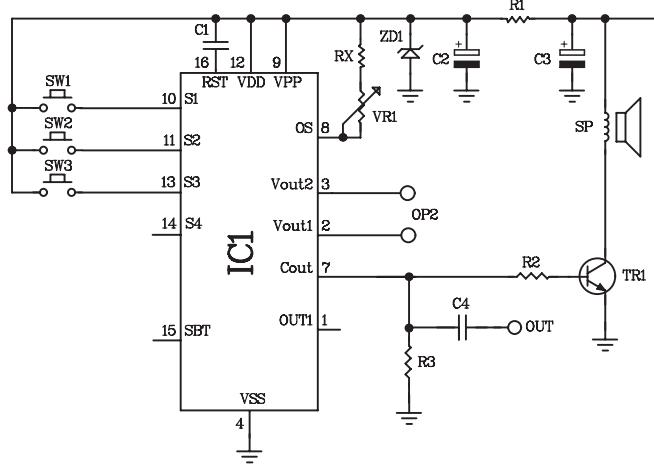
#### Testing

When the assembly is completed, set VR in the middle, and then supply 4.5VDC to the circuit. Speaker will work when press a switch (SW1, SW2 or SW3). Try other switches, so you will hear different sound, that's mean circuit is working.

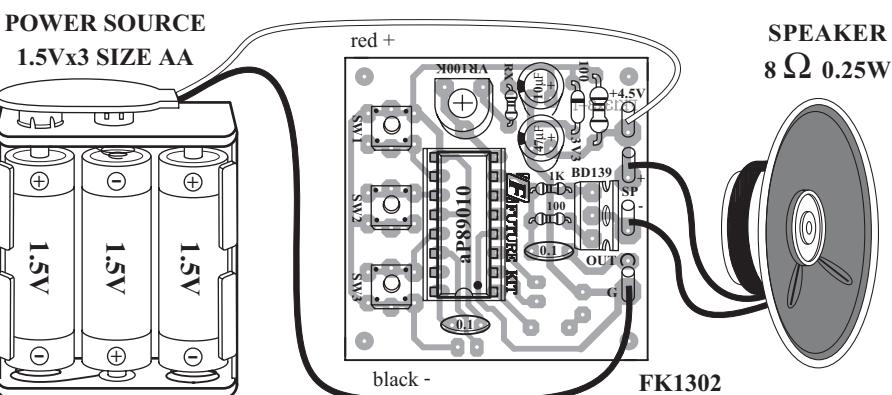
#### VR work as a tone adjuster.

#### Using

In case louder sound is required, using amplifier circuit FK1301, as shown in Figure 4.



**Figure 1.**  
**Three Chicken Sound Circuit**

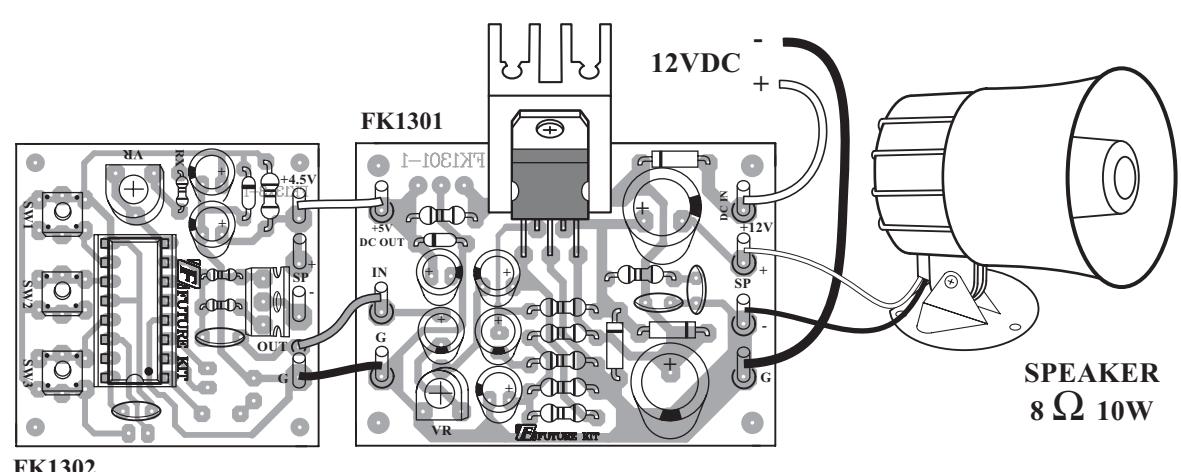
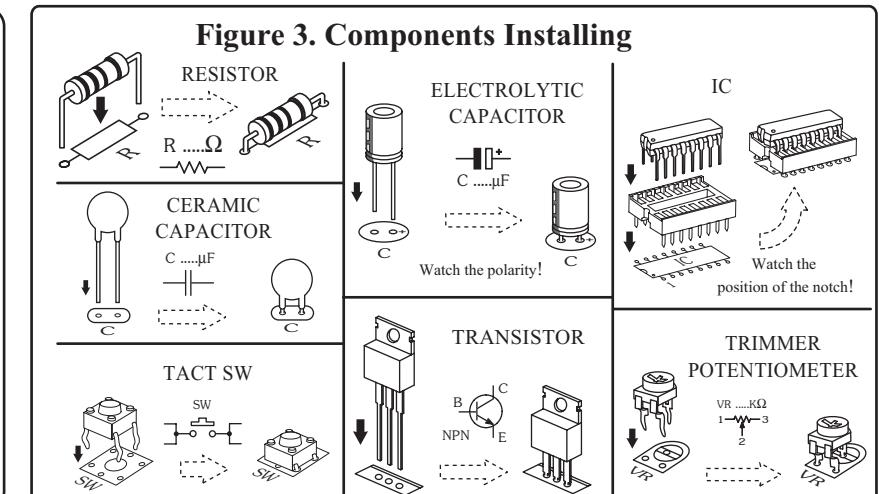


**Sound Selection Switches.**

| CODE   | SW1            | SW2               | SW3               | Rx VALUE |
|--------|----------------|-------------------|-------------------|----------|
| FK1302 | Cock<br>ไก่ขัน | Chicken<br>ถูกไก่ | Hen<br>ไก่ตัวเมีย |          |

NO.1

**NOTE:**  
**FUTURE BOX FB28**  
is suitable for this kit.



**Figure 4. Connecting with Power Amplifier**

**Figure 2.**  
**Circuit**  
**Assembling**