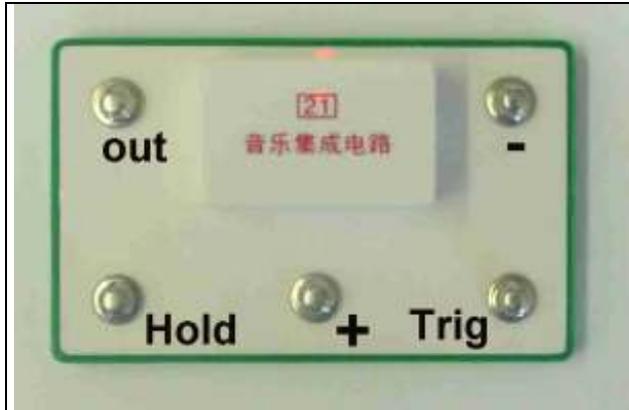


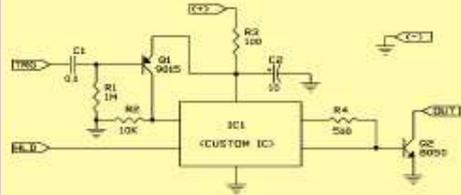
La copie américaine du jeu chinois est mieux documentée :

<http://www.snapcircuits.net/IC-Details.pdf>

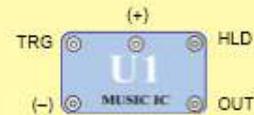
Voici ce qui a pu être reconstitué :



The **music IC** module contains sound-generation ICs and supporting components. It can play several musical tunes that are recorded in it. Its actual schematic is complex and looks like this:



Its Snap Circuits connections are like this:

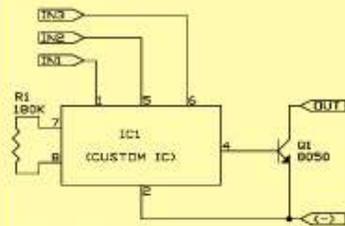


Music IC:

(+) - power from batteries HLD - hold control input
 (-) - power return to batteries TRIG - trigger control input
 OUT - output connection

Music for ~20 sec on power-up, then hold HLD to (+) power or touch TRIG to (+) power to resume music.

The **alarm IC** module contains a sound-generation IC and supporting components. It can make several siren sounds. Its actual schematic looks like this:



Its Snap Circuits connections are like this:



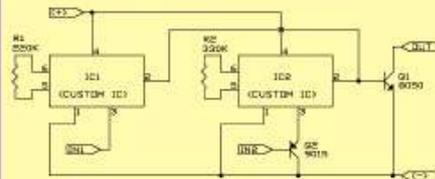
Alarm IC:

IN1, IN2, IN3 - control inputs
 (-) - power return to batteries
 OUT - output connection

Connect control inputs to (+) power to make five alarm sounds.



The **space war IC** module contains sound-generation ICs and supporting components. It can make several siren sounds. Its actual schematic looks like this:



Its Snap Circuits connections are like this:



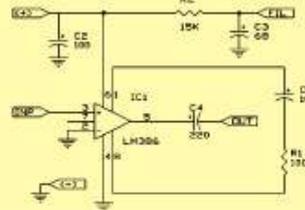
Space War IC:

(+) - power from batteries OUT - output connection
 (-) - power return to batteries IN1, IN2 - control inputs

Connect each control input to (-) power to sequence through 8 sounds.



The **power amplifier IC module** (not included in model SC-100) contains an LM386 audio amplifier IC and supporting components. Its actual schematic looks like this:



Its Snap Circuits connections are like this:



Power Amplifier IC:

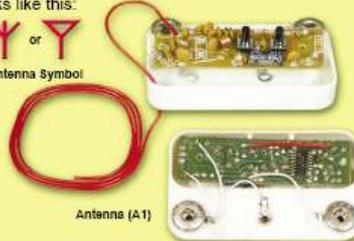
(+) - power from batteries
 (-) - power return to batteries
 FIL - filtered power from batteries
 INP - Input connection
 OUT - output connection



The **FM Module** (not in SC-100 or SC-300) contains an integrated FM radio circuit. The inside looks like this:

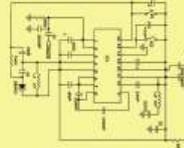


Antenna Symbol

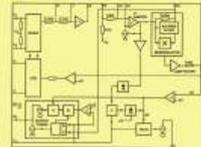


Antenna (A1)

Its actual schematic looks like this:



This circuit is actually much more complex than it appears here, since it is built around an integrated radio circuit. A schematic of the circuitry within this part would be too large to show here, but this block diagram gives a summary of it:



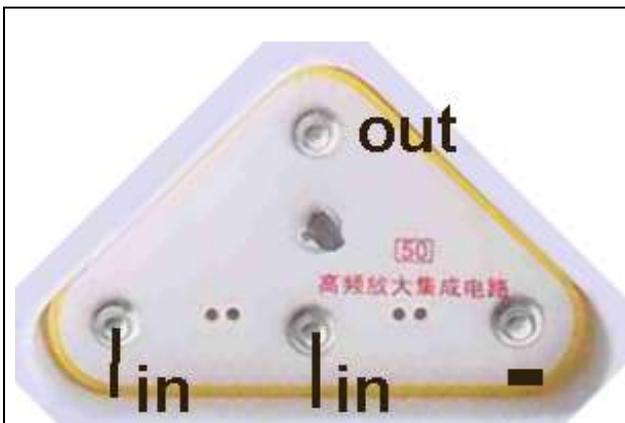
Its Snap Circuit's connections are like this:



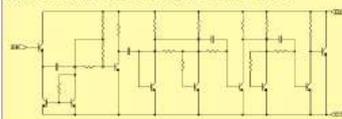
FM Module:

(+) - power from batteries
 (-) - power return to batteries
 T - tune up
 R - reset
 OUT - output connection

The antenna (Y) is a loose wire that should always be left unconnected and spread out for best radio reception.



The **high frequency IC** (not in SC-100) is an TA7642 (or other equivalent) AM radio IC. It is a specialized amplifier used only in high frequency radio circuits. The circuitry looks like this:



Its Snap Circuits connections are like this:



High Frequency IC:

INP - Input connection (2 points are same)
 OUT - output connection
 (-) power return to batteries

This module converts an AM radio signal at its input into an audio signal at its output. Snap Circuits project 242 shows how to connect this part and what it can do.



555

Les numéros correspondent au boîtier

Masse (0V)	GND	1		8	VCC	Alimentation (4-12V)
Gachette	TRIGGER	2		7	DISCHARGE	Décharge
Sortie	OUTPUT	3		6	THRESHOLD	Seuil
Remise à zéro	RESET	4		5	CONTROL VOLTAGE	Tension de commande