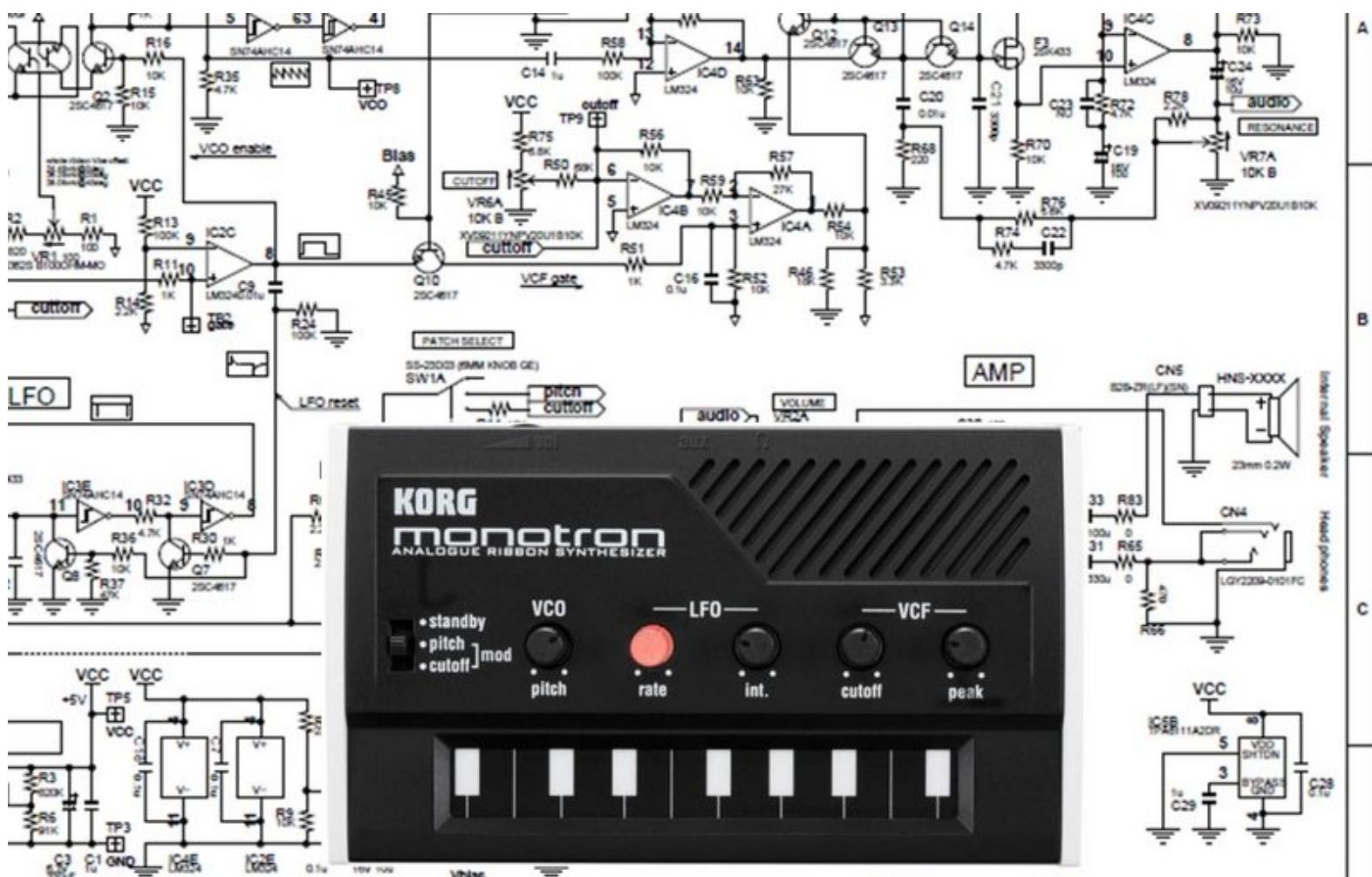




# KORG Monotron Teardown

This teardown will help you to better hack this great mini synt.

Written By: Carlo Romagnoli



change without notice.  
immediately void its warranty.  
xt responsibility for any damages, personal loss or injury that may result from any modification to the device.

MODEL	TITLE
monotron	SCHEMATIC FOR PUBLIC RELEASE
	DATE 2010.10.13

**KORG** DESIGNED BY  
TATSUYA TAKAHASHI

## INTRODUCTION

This teardown will help you to better *hack* and *repair* the **KORG Monotron** mini synt.

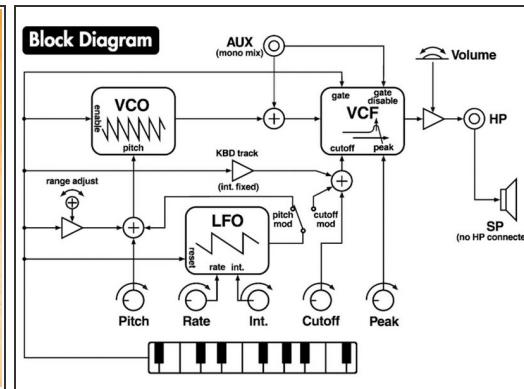
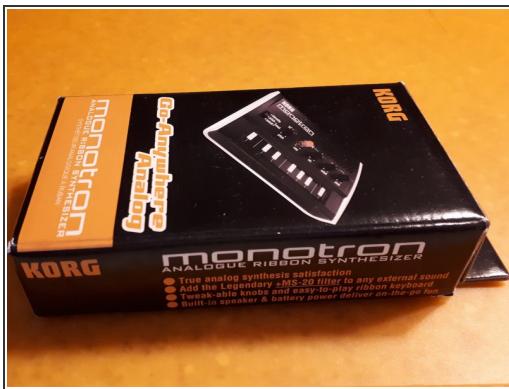
This battery powered synt is made of a real analog *VCO* a *VCF* and a *LFO*. The *VCF* is similar to the ancient **KORG**'s classic *MS-10* and *MS-20*. You can use the ribbon keyboard to create an incredible sound of the '70s .

There are a lot of infos on internet but this device deserves an appropriate space on IFIXIT

## TOOLS:

- [Phillips #1 Screwdriver \(1\)](#)

## Step 1 — The KORG Monotron



- Here it is.... the Monotron !!!
- [LM324](#) as low power op amp
- [TPA6111A2DR](#) as a stereo audio power amp.
- [TPS61071](#) as a synchronous boost converter (power supply chain) from 2 AAA battery
- [SN74AHC14](#) hex Schmitt-Trigger
- [2SC4617](#) npn bjt, [2SA1774](#) pnp bjt, [2SK433](#) fet, [IMX9](#) double bjt

## Step 2 — Opening



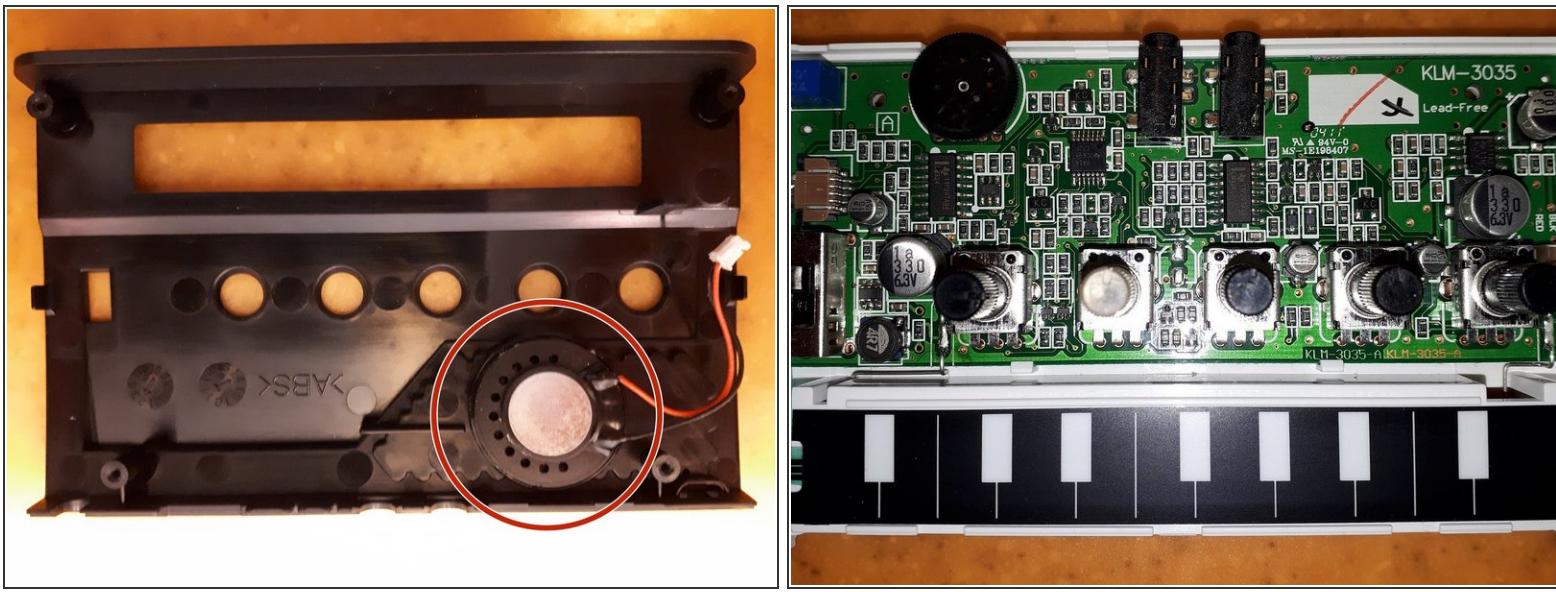
- Only 4 PH1 screws
- Note: **Made in Japan !**
- Take care at the cables between two sides

## Step 3 — Remove the connectors



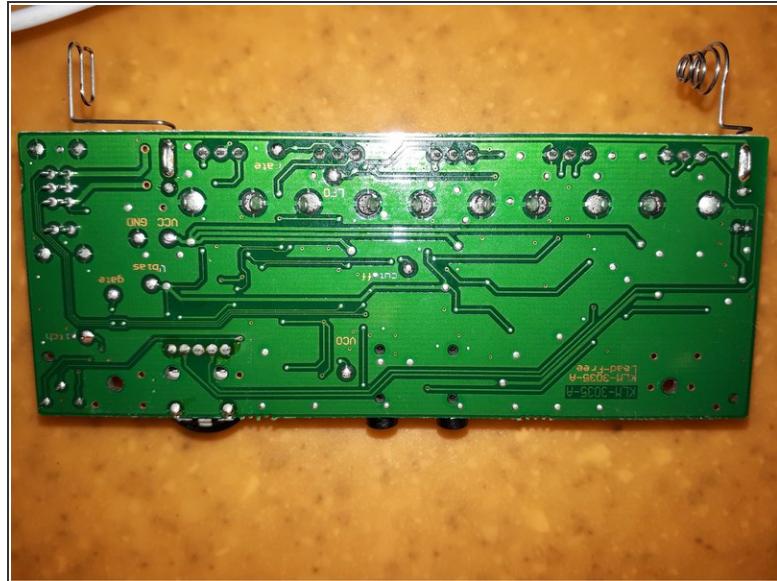
- Remove ""the flat cable"" from the ribbon controller to the pcb (pull with care using hands)
- Remove the 2 ways connector for the speaker. Use hands (with care)
- Take max care to the speaker controller. **Easy to remove but difficult to re insert**

## Step 4 — Parts



- **Loudspeaker** is glued to the enclosure

## Step 5 — Board



- [Here](#) a really good image of the Monotron - Courtesy of *Tim Stinchcombe*