

# M164

## Sakamoto Auscultation Simulator



SAKAMOTO MODEL  
CORPORATION

User's Manual (140513)

### — I N D E X —

● Introduction/Table of Contents	1
● Purpose	2
● Content	3
● Cautions on Use/Storage Instructions	4

<b>!</b> Note	Confirm the main unit and accessories directly after the product arrives. If there is any defect or breakage, inform the dealer or Sakamoto Model.
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株式会社坂本モデル



## Introduction

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Thank you for purchasing our product, “Sakamoto Auscultation Simulator.”

Read this user’s manual carefully in order to use the product for a long time appropriately.

This product is closely checked before factory shipment. However, when this product arrives, open it soon, and check if anything on the main unit and accessories are missing or broken.

## Table of contents

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Introduction／Table of Contents.....	1
Purpose.....	2
Content.....	3
Cautions on Use／Storage Instruction.....	4

# Purpose

This product is used to perform training for the following items:



- Auscultation for 20 cases of cardiac sounds (Right and left base of heart, left sternal border and cardiac apex)  
Heart rate: 50 – 150 bpm

## Cardiac sounds

1 Normal (no splitting of the second sound)	11 Mitral stenosis
2 Normal (split second sound)	12 Mitral insufficiency
3 Abnormal split second sound	13 Aortic stenosis
4 Increased apical second sound in hypertension	14 Aortic insufficiency
5 Apical fourth sound	15 Subaortic stenosis
6 Innocent murmur	16 Atrial septal defect
7 Aortic ejection sound	17 Ventricular septal defect
8 Mid-systolic clicks	18 Pulmonary stenosis
9 Mitral escape clicks /murmur	19 Acute mitral insufficiency
10 Tricuspid insufficiency	20 Pulmonary insufficiency

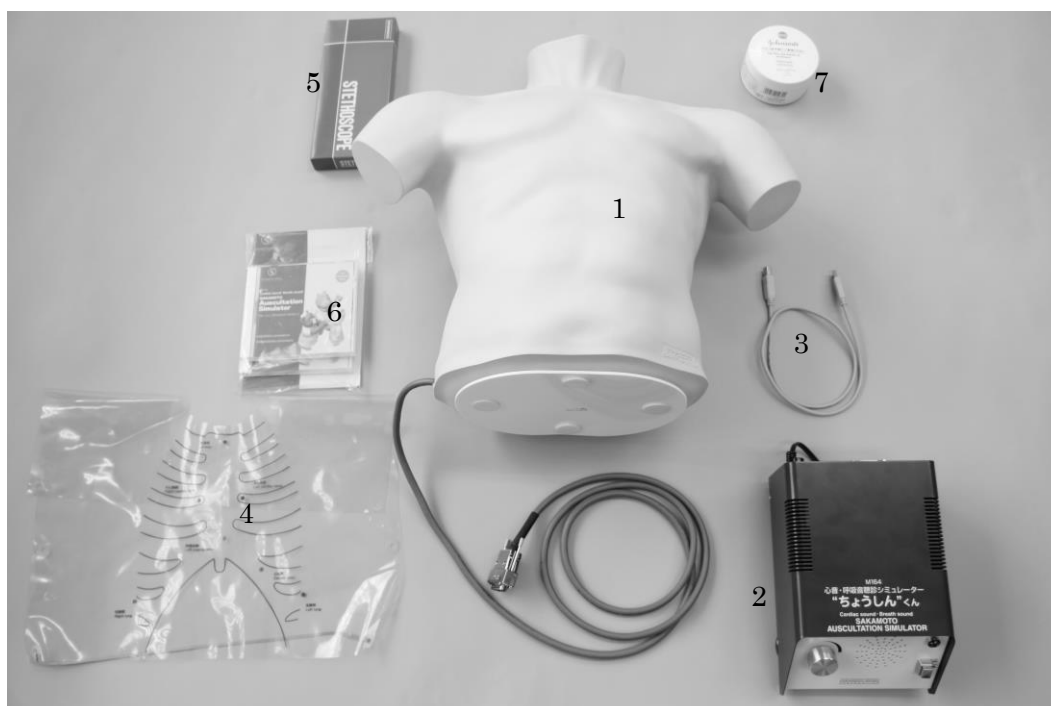
- Auscultation for 12 cases of breathing sounds (Respiratory tract region, left and right lung regions)  
Respiratory rate: 10 – 40 breaths per minute

## Breath sound

	Major Category	Minor Category	Disease
1	Normal alveolar breath sound		Normal
2	Intermittent rales (moist rales)	Fine crackles	Interstitial pneumonia, pulmonary fibrosis / pulmonary edema
3	Intermittent rales (moist rales)	Coarse crackles	Pulmonary edema, pneumonia, alveolar effusion
4	Continuous rales (dry rales)	Low pitched rhonchi (sonorous rhonchi)	Stenosis of middle-large bronchi, bronchial secretion
5	Continuous rales (dry rales)	High pitch rhonchi, wheeze	Bronchiolar stenosis, bronchial asthma
6	Continuous rales (dry rales)	High pitch rhonchi, wheeze	Bronchiolar stenosis, bronchial asthma
7	Tachypnea	Consonating rales	Nervous dyspnea
8	Intensified bronchovesicular sounds		Resting dyspnea
9	Continuous rales (dry rales)+ intermittent rales (moist rales)	High pitch rhonchi, wheeze+fine crackles	Cardiac asthma
10	Continuous rales (dry rales)	High pitch rhonchi, wheeze+prolonged exhalation	Bronchial asthma
11	Abnormal respiratory pattern	Tachypnea (shallow respiration)  60times/min	Central hyperpnea (midbrain disorder) hyperventilation syndrome
12	Abnormal respiratory pattern	Kussmaul respiration  36times/min	Diabetic ketoacidosis, uremia

# Content

- 1) Model – Qty.1
- 2) Mechanical device – Qty.1
- 3) USB cord – Qty.1
- 4) Transparent chest cover – Qty.1
- 5) Stethoscope – Qty.1
- 6) Software installation CD (Japanese/English) – Qty.1
- 7) Baby powder – 1 can



## **Cautions on Use**

- 1) Do not place the model onto a newspaper or a printout, because it is made of silicone and can get dirty or develop wrinkles easily. If the skin on the model becomes dirty, clean by wiping it down gently using a neutral detergent or alcohol based agent.
- 2) Do not use an oil-based magic marker or ink because it will stain the skin on the model and it cannot be removed.
- 3) If any excessive loads are hung from the model or if dropped, it will damage the model.
- 4) If anything sticks to the model, apply some powder provided in the accessories. If the model is used without applying the powder, it may damage the model.
- 5) Refer to the “User manual” and the “Installation procedure” included with the software installation CD for further details on the connection and re-installation methods.
- 6) If a defect or problem with the product is discovered during use, stop using the product immediately and contact Sakamoto Model or an authorized dealer.
- 7) This product is a simulator capable of supporting advanced medical training. However, Sakamoto Model does not guarantee the same results during actual treatment.
- 8) Please note that the specifications of this product may be changed without prior notice in order to make improvements to the product.

## **Storage Instructions**

- 1) When the product gets dirty, soak a soft cloth with a neutral detergent to remove the dirt or stain. Then, wipe it down with water. Thereafter, use a dry cloth to remove any remaining moisture and then apply the baby powder.
- 2) Avoid storing the product in direct sunlight or in locations with high temperature and humidity.

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**SAKAMOTO MODEL**  
C O R P O R A T I O N

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