

"Caution: Ink from this manual can stain the Newborn Baby skin - do not let it touch the model."

M58 Newborn Vital Signs Examination Simulator

Movie Site



English Site

<https://youtu.be/pRzRjhJi4oQ>

Instruction Manual ENGLISH P.1~P.10

KYOTOKAGAKU co.,Ltd. KYOTOKAGAKU co.,Ltd. KYOTOKAGAKU co.,Ltd.

Preface

Training with the M58 Newborn Vital Signs Examination Simulator will advance pediatric examination skills for auscultation of infant heart sounds and respiration, and measurement of arterial pulse and body temperature.

This simulation model is designed for training in medical and nursing education only. Do not use for any other purpose.

Read this manual carefully before use and follow all instructions.

Damage caused by misuse, theft, fire, inadvertent breakage or usage not in accordance with this training manual is not warranted by the manufacturer.

This is an electrical device; please use caution in avoiding exposure to liquids, extreme temperatures or condensation, sunlight and the outdoors. Take all precautions to reduce risk of injury due to fire and shock by treating all components and cords with appropriate care during normal usage.

Do not handle the simulation model with force; contact manufacturer if cords, plugs or pins become bent or broken.

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- The contents of the instruction manual are subject to change without prior notice.
 - No part of this instruction manual may be reproduced or transmitted in any form without permission from the manufacturer. Please contact manufacturer for extra copies of this manual which may contain important updates and revisions.
 - Please contact manufacturer with any discrepancies, typos, or mistakes in this manual or product feedback. Your cooperation is greatly appreciated.

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DOs and DON'Ts

DOs

● Operate the system under the designated circumstances

Power input: AC100V~230V plus or minus 10%, 50Hz/60Hz

Temperature range: between 0 degrees C and 40 degrees C

(no congelation)

Relative humidity; between 0%to 80% (no condensation)

*Connecting to power source outside of the designated range may lead to fire.

● Safe disposition

To avoid short circuit, do not run the simulator set above a power receptacle.

● Handle the power plug and cord observing following precautions

1. Clean the head of the plug periodically.
2. Plug in the plug to the outlet firmly to the end.
3. Always hold the plug when unplugging. Do not pull the cable.
4. Do not force to bend, twist the cable and avoid scratching or cutting on it.

Failing to follow the above precautions can result in damage in the plug and the cable, constituting risk of fire or shock.

● If the rectal temperature is measured in excess of 60 C/140 F, or if the electric parts get warm or produce smoke, immediately turn off the power and unplug from the power source

Risk of fire. Contact your distributor or the manufacturer for repair.

● Handle with care

The materials for the models are special compositions of soft resin. Please handle them with utmost care at all times.

Talcum powder may be used on the manikin after use to preserve suppleness of the skin and prevent oils from staining the surface.

The manikin skin may be cleaned with a wet cloth and mildly soapy water or diluted detergent.

● Storage

Store the simulator at room temperature, away from heat, moisture and direct sunlight.

Storage under the temperature above 50 degrees C may reduce the performance quality of the simulator.

Store the manikin in its storage case when not in use.

DON'Ts

● Do not disassemble or open electric or precision components

Do not open up or disassemble the housing for electric parts or precision components.

Refrain from opening up any lids, caps or covers for such area, and never run the system while any of such covers are open.

*Never disassembling the electric components, power plug and cable as it may create a risk of fire, shock or injury.

Contact your distributor or the manufacturer for repair.

● Never wipe the product and components with thinner or organic solvant

● Ink marks on the soft surface won't be removable

Don't mark on the product and components with pen or leave any printed materials in contact with their surface.

● Do not give shocks

The electric components are precision instruments.

Strong shocks or continuous vibration may cause breakages of its internal structure.

● Do not run the system continuously over 2 hours

Take at least 30 minutes shutdown, turning off the power, every 2 hours.

● Do not wet the electric components

Do not pour or spill water or liquid detergent over the electric components, power cable and power plug.

Running the system while the electric components are wet may create a shock hazard or a risk of fire.

● Do not handle the power plug with wet hands

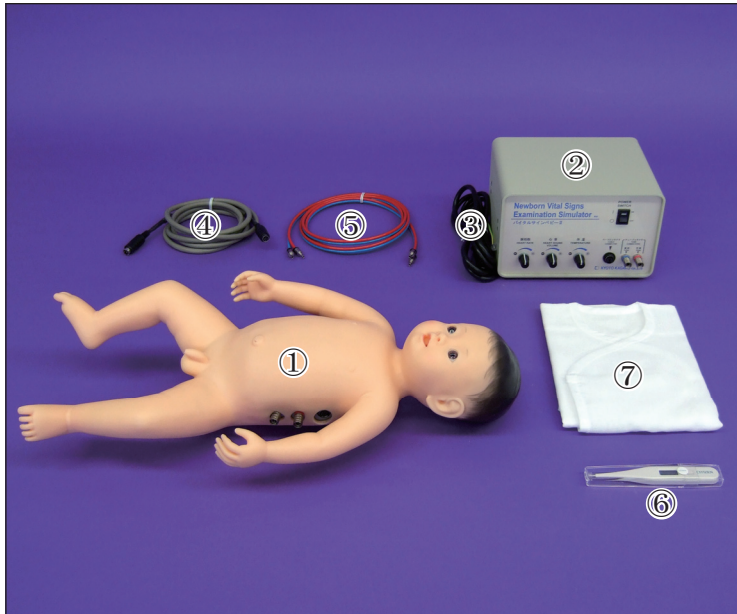
Risk of shock.

● No fire

Do not put the product close to fire. It may lead to discoloration or deformation of the product as well as short circuit, creating a risk of fire.

Overview

■ Set includes:



- ① Newborn manikin 1 piece
- ② Control box 1 unit
- ③ AC cable 1 piece
- ④ Control cable 1 piece
- ⑤ Air tube 1 piece
- ⑥ Celsius thermometer 1 piece
- ⑦ Baby wear 1 piece

Specifications

1. Newborn manikin

Male newborn life-size manikin

Material: soft resin Size: 50 cm tall, weight 1.1kg/2 lb. 7 oz.

Training items:

Fonticulus palpation

Chest auscultation: heart and respiratory sounds

Arterial pulse palpation: (bilateral carotid, superficial temporal and radial arteries)

Rectal thermometry: (ranging from 32 to 45 degrees C / 89 to 113 degrees F)

2. Control box

Heart rate control dial: controls heart rate, variable speed

Heart sound volume control dial: controls heart and respiratory sounds, variable volume

Rectal temperature control dial: controls rectal temperature, variable temperature

Power supply: AC85-264V, 50/60Hz, 30W

Power supply

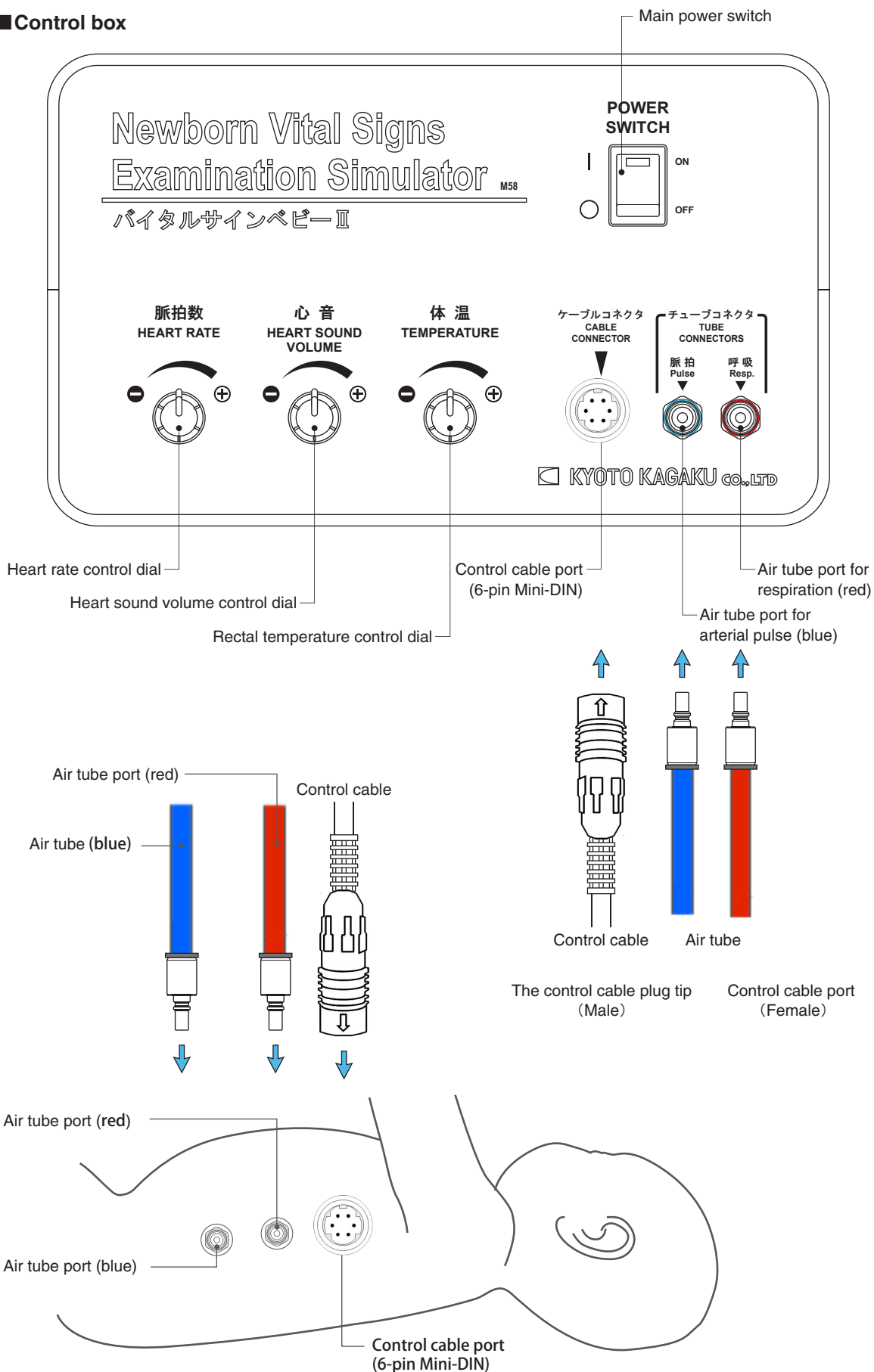
Ranging from AC 85-264V, 50/60Hz, 30W

Usage environment

Standard room temperature, relative humidity from 0-80% (no condensation)

Features

Control box



How to Operate

Use environment

Please use the M58 Vital Signs Examination Simulator under the following conditions:

Indoors – the unit should not be exposed to outside conditions.

Standard room temperature (from 0 to 35 degrees C / 32 to 95 degrees F). Do not place near extreme heat or sunlight.

Relative humidity: from 0-80% (no condensation).

When not in use, store the manikin in its case, or on a flexible surface. The skin may deform, or flatten, if left on a hard surface over time.

Connecting the Unit

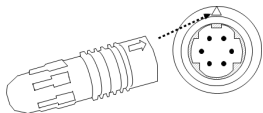
Connect the manikin to the control box with the control cable and air tube.



Matching the arrow of control cable end with the triangle on the port of the control box, connect the cable and port.



Connect the same color cable with the port ringed same color.



Connect the cable with the port of the manikin with the same way.



Caution

Unstable connection will cause incorrect working of the model.

Forcible connection may cause the damage of the tips of the tube and the port.

Connect the AC power cable to the control box. Make sure that the main power switch is OFF.

Then connect the cable to the power supply.



③ Start Up

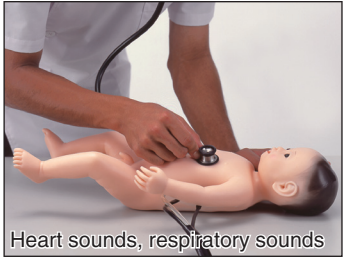
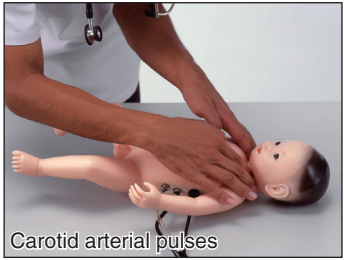
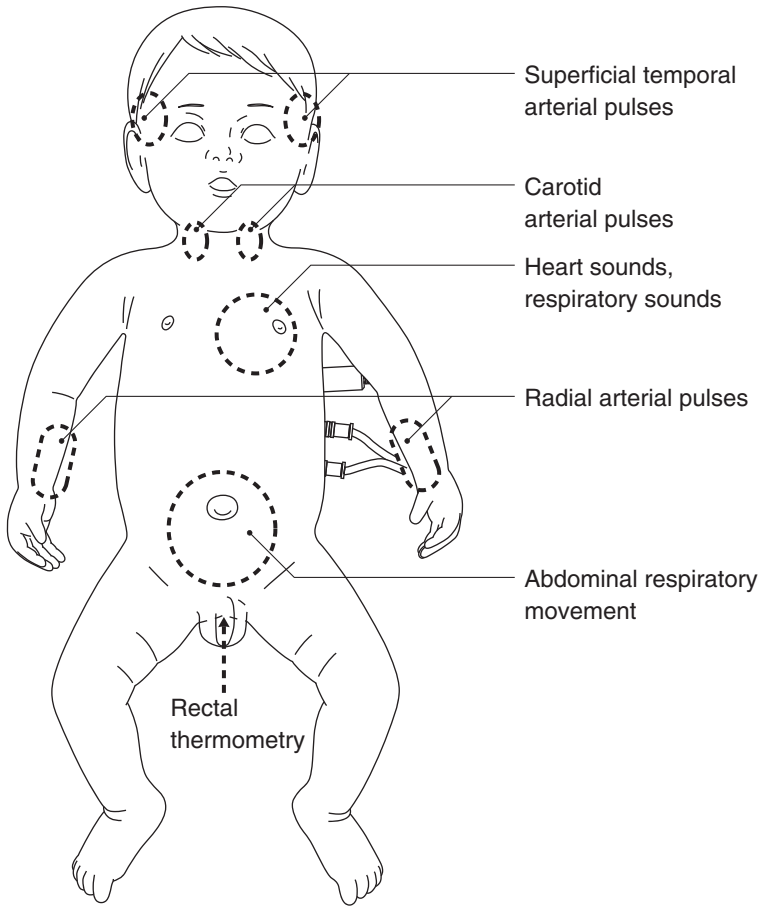
Turn the main power switch on.

The model is ready for a newborn vital signs examination.

Check the respiration, pulse, heart sounds and rectal temperature of the manikin.



■ Training items

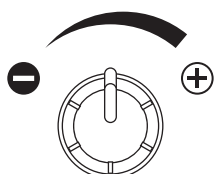


④ Control Dials

The three control dials on the control box panel vary the speed of the heart rate and respiratory sounds, the heart sound volume and the range of the rectal temperature.

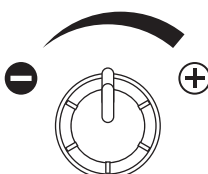


脈拍数 HEART RATE



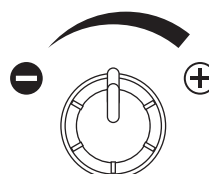
Heart and respiratory rate vary in tandem by turning the dial towards the plus (faster) or minus (slower) signs.

心音 HEART SOUND VOLUME



Heart and respiratory sounds vary in tandem by turning the dial towards the plus (louder) or minus (quieter) signs.

体温 TEMPERATURE



Rectal temperature varies in range by turning the dial towards the plus (higher) or minus (lower) signs.

Measure the manikin's body temperature with the included digital thermometer by inserting it rectally into the manikin. Use a lubricant like Vaseline around the manikin's anal opening if thermometer insertion is difficult.



Caution

If temperature is measured in excess of 60 C/140 F, or if smoke or a burning smell emit from the unit, **TURN THE UNIT OFF IMMEDIATELY**. Do not turn the unit back on, and contact the manufacturer for service.

⑤ After Use

- Always turn off the main power switch when the simulator is not in use.
- Limit the examination time while the unit is powered on to two (2) hours. After two hours, allow 30 minutes for the unit to cool down.

⑥ Detaching control cable and air tube

● Detaching control cable



● Detaching air tube



⑦ Storage

- Store the manikin in its storage case when not in use.
- Storage in a dark, cool area will keep the manikin skin from fading if exposed to the sun or fluorescent light.
- Please do not let ink from pens, newspapers, these instructions or other sources come in contact with the manikin, as they cannot be cleaned off the manikin skin.
- The manikin skin may be cleaned with a wet cloth and mildly soapy water or diluted detergent. Never use ethanol or organic solvent like paint thinner to clean the skin, as this will cause deterioration of the skin.

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