Caution:

Don't mark on the phantom with pen or leave printed materials contacted on its surface. Ink marks on the phantom will be irremovable.

PH-79

X-Ray Training Phantom PBU-POSE

Instruction manual

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X-Ray Training Phantom PBU-POSE

PH-79 "X-ray Training Phantom PBU-POSE" is a whole-body phantom for general imaging that specializes in positioning and is significantly lighter than the "Whole Body Phantom PBU-50". The shoulder, elbow, hip, and knee joints are flexible, and each joint can be assembled / disassembled. For the separate parts and joints, the shape of the bone is truthfully reproduced to the human shape. It is constructed without any metal parts, so it doesn't interfere with the imaging.

The phantom is separable into 10 parts facilitating a variety of application. A positioning stand for the head part comes with the set.

Please Note

Please do not use it for any purpose other than its intended purpose. In addition, please note that we are not responsible for any damage or accident caused by using different to the method described in the instruction manual.

Features

- Equipped with anatomical landmarks on the body surface necessary for positioning.
- You can put on and take off clothes, transfer to a wheelchair, and take images while sitting in a wheelchair.
- Designed for the training of positioning for bone imaging, the muscle / fat layer is intentionally not represented.
- The imaging conditions are assumed to be 1/2 to 1/3 of the usual clinical conditions, which can reduce the exposure to the operator's scattered radiation and the load on the device.



- ① Since it is made of a special soft resin, it may be damaged if dropped or given a strong impact.
- 2 Never tighten the threaded parts too much as they may cause damage .
- ③ Never force the phantom in certain position as it may cause damage to the pahntom.
- ④ Do not allow printed matter to come into direct contact with the model's surface. Ink is absorbed by the resin and can not be removed.
- (5) Do not write on the surface of the model with felt-tip pens, ballpoint pens, etc. Ink is absorbed by the resin and can not be removed.
- ⁽⁶⁾ Wipe the model with water or a mild detergent, and apply baby powder after drying. Never use organic solvents such as thinner or alcohol.
- ⑦ It may discolor if it not used for a long time and it can change over time, but it doesn't alter the usability.
- (8) After use, avoid storing in hot and humid places or in direct sunlight. It may cause deformation or deterioration.
- (9) When storing, do not burden the joints.
- 10 Do not protract only the limbs or neck when handling the phantom. These handling may cause crack or fracture.



Please read

Set Contents and Names of Each Part

Before using, please make sure that all the following components are included.



In addition to the components in the picture, X-ray image of the phantom and the instruction manual are included

Specifications

Model: PBU-POSE

Intended application: Positioning phantom for plain radiography

Length: approx.165cm Weight: approx. 18kg

Can be dismantled at: shoulders elbows, hip joints, knees, neck (10 parts) Embedded organs: heart and kidneys

Material: Soft tissue (urethane resin), bone equivalent material (epoxy resin)

PBU-POSE Components

Parts #	Parts name	QTY
1	Head	1
2	Neck-head connection plate	1
3	Trunk	1
4	Right upper arm	1
5	Left upper arm	1
6	Right forearm	1
7	Left forearm	1
8	Right thigh	1
9	Left thigh	1
10	Right lower leg	1
11	Left lower leg	1
12	Right patella	1
13	Left patella	1
14	Connector for shoulder A (Right or left)	2
15	Connector for shoulder B (Right or left)	2
16	Connector for right elbow (lateral side)	1
17	Connector for right elbow (medial side)	1
18	Connector for left elbow (lateral side)	1
19	Connector for left elbow (medial side)	1
20	Connector for right hip joint	1

Parts #	Parts name	QTY
21	Connector for left hip joint	1
22	Supporting plate for right hip joint	1
23	Supporting plate for left hip joint	1
24	Connector for right knee	1
25	Connector for left knee	1
26	Screw bolt for neck connection M12×20	2
27	Screw bolt for neck connection M10×15	2
28-a	Screw bolt for shoulder connection M8×13	4
28-b	Screw bolt for parts # 22.23 M 8×12	6
29	Screw bolt for elbow joint M 6×60	4
30	Screw nut for elbow joint M 6	4
31	Screw bolt for hip joint M8×35	6
32	Screw bolt for knee joint M12×18	4
33	Connection tape for the patellae	2
34	Height adjustment panel	1
35	Base panel	1
36	Neck connector	1
37	Neck connector fixture	1
38	Screw for fixture	1
39	Screw bolt M6×18	2
40	Hand positioning belt	1





The number indicated on the photos above correspond to the page numbers in this manual.

 $\% {\rm Please}$ note, that the appearance of each part may differ from the actual product

* The circled numbers in the assembly images are parts numbers on the components table on page 3.

< NECK AND HEAD >

1. Remove the two bolts for the neck connection (part #26) and remove the neck head connection plate (part #2) from the trunk.





[Neck sub-assembly]

2. Screw the neck head connection plate (part #2) on the head (part #1) and fix it with two head / neck connection bolts (part #27).

(26)









2

Screw bolt for neck connection M10×15×2

[Connection of the head and the trunk]



3. Mount the assembled parts (parts #1 and #2) to the trunk and secure each side with a screw bolt (part #26).











<HEAD AND STAND >

1. Mount the head phantom to the neck connector (#36) and fix it with two screws(#27).



2. Assemble the two panels. Attach the height adjustment panel (#34) to the base panel (#35) at right angle and fix with two screws(#39). Then, insert the end of the neck connector (#36) in the slit on the panel and fix it with the fixture (#37).









3. The phantom is ready. Adjust the height of the neck as needed, by loosen the fixture and slide it through the slit. Tighten the fixture again at the designated height.

Anatomical Landmarks





Don't mark on the phantom with pen or leave printed materials contacted on its surface. Ink marks on the phantom will be irremovable.

• If you have any questions, please contact the dealer you purchased the product or Kyoto Kagaku Co., Ltd. below.

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