PH-2B Whole Body Phantom PBU-60

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.



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Whole body phantom PBU-60

Please read

The whole body phantom is life-size human phantom with a life-size syntactic skeleton are embedded in a radiological soft-tissue substitute.

There are no metal parts that would impair realistic imaging. The joints, knees, elbows, shoulders and hip-joints, are flexible and able to maintain the necessary positions. The phantom is separable into 10 parts facilitating a variety of application. A positioning stand for the head part comes with the set.

Specifications

Intended applica	ation: Positioning phantom for plain radiography
Length: approx.	165cm
Weight: approx.	50kg
Can be dismantl	ed at: shoulders elbows, hip joints, knees, neck
Embedded orga	ns: brain, eye balls, lungs with vessels, trachea, meditational space, liver with vessels (incl. portal vein), kidneys, spleen, pancreas, stomach(air), sigmoid colon, rectum, prostate
Movable joints a	nd their range of movement
Shoulders:	rotate 360 degrees to back and forward,180 degrees side-ways
Cubital join	ts (bilateral): bend inward up to 90 degree
Coxae (bila	teral): rotate forward up to 90 degrees, then rotate outward up to 45 degrees each.
Articulatio	genus (bilateral): bend up to 90 degrees.
Material: Humar	n tissue substitute(urethane,epoxy,etc.,)
Flat h Samp Hanc	ioning head stand 1 piece head screwdriver 1 piece ble images 1 set I positioning belt 1 piece rts: screws and connection tape for knee joints.

Please read

🔨 Please note

- 1) Bone trabeculae are observed only at hands.
- 2) Contours of the bones are slightly enhanced than actual human x-ray image, to facilitate clear understanding.
- 3) Basically the phantom is designed to be radiographed under same setting as human body, tough, the joints areas may require some adjustment to have better image.
- 4) Connection tapes can be changed when they are spoiled.

\land Caution

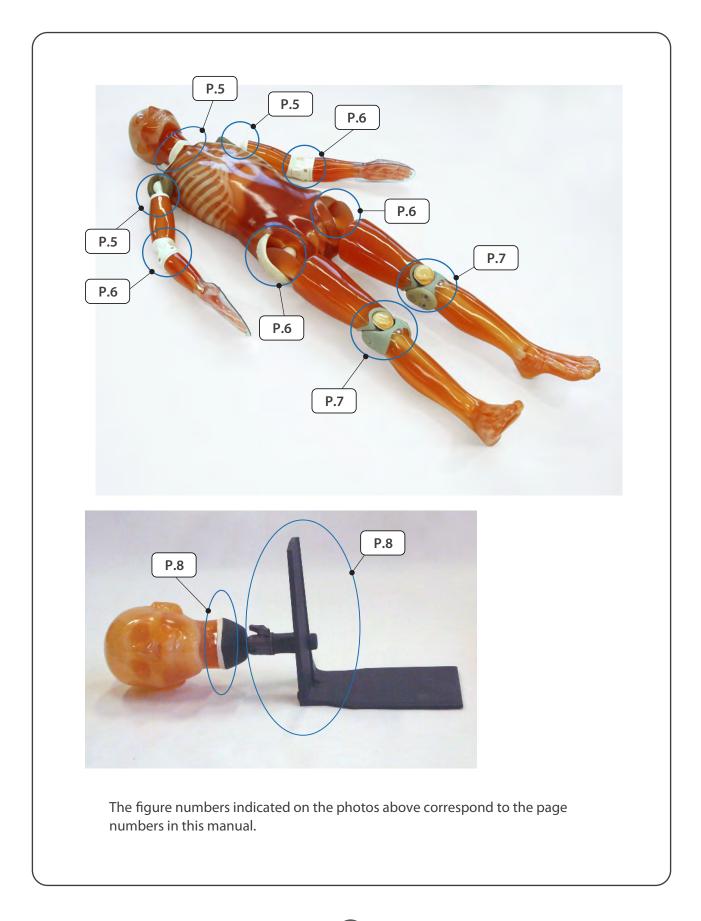
- Do not make the phantom to take the position unintended by the manufacturer.
 It may cause the breakage in the phantom if the joints are forced to bend or rotate to the directions or degrees of angles outside of designed movable range.
- 2) Do not take off the plastic protector attached to the hands. The protector prevents breakage in the phantom fingers.
- 3) Do not carry phantom while it is assembled. Detach the joints before moving to avoid the excessive force on the joints.
- 4) Do not fasten the screws too tight.
- 5) The phantom is heavy and could cause damage not only to itself but to people or other objects. When you need to handle the assembled phantom, always do it by two or more people with utmost care.
- 6) Don't mark on the phantom with pen or leave printed materials contacted on its surface. Ink marks on the phantom will be irremovable.

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PBU-60 Components

Parts #	Parts name	QTY	Parts #
1	Head	1	21
2	Neck-head connection plate	1	22
3	Trunk	1	23
4	Right upper arm	1	24
5	Left upper arm	1	25
6	Right forearm	1	26
7	Left forearm	1	27
8	Right thigh	1	28
9	Left thigh	1	29
10	Right lower leg	1	30
11	Left lower leg	1	31
12	Right patella	1	32
13	Left patella	1	33
14	Connector for right shoulder	1	34
15	Connector for left shoulder	1	35
16	Connector for right elbow (exterior)	1	36
17	Connector for right elbow (interior)	1	37
18	Connector for left elbow (exterior)	1	38
19	Connector for left elbow (interior)	1	
20	Connector for right hip joint	1	

Parts #	Parts name	QTY
21	Connector for left hip joint	1
22	Connector for right knee	1
23	Connector for left knee	1
24	Nut for neck connection M12	2
25	Screw bolt for neck connection M10×20	2
26	Screw bolt for shoulder connection M 8×10	4
27	Screw bolt for elbow joint M 6×60	4
28	Screw nut for elbow joint M 6	4
29	Screw bolt for hip joint M8×35	6
30	Screw bolt for knee joint M12×20	4
31	Connection tape for the patellae	2
32	Height adjustment panel	1
33	Base panel	1
34	Neck connector	1
35	Neck connector fixture	1
36	Screw for fixture	1
37	Screw bolt M6×21	2
38	Hand positioning belt	1
	1	



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

< NECK AND HEAD >

1. Take off the neck head connection plate (part # 2) from the trunk.

24 Nut for neck connection M12×2



2. Screw the neck head connection plate (part # 2) on the head (part #1) and mount the assembled parts to the trunk.

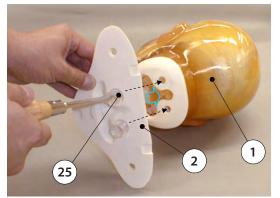


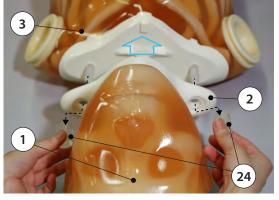


Screw bolt for neck connection M10×20×2

[Neck sub-assembly]







< SHOULDERS >

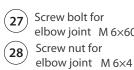
Take off the external shoulder connector parts (part #14 or 15) from the trunk. Then attach the upper arms (part #4 or 5) holding the ball joints with connectors.

% Be careful not to mix up part #4 and 5. The shape of right and left arms are different.

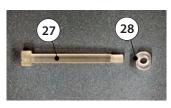


< ELBOWS >

Attach upper arm parts (part #4 or 5) and forearm parts (part #6 or 7) at joint section. Fix these parts with elbow connectors (part #16 or 18 and #17 or 19) from both outsides and inside.



elbow joint M6×60×4



< HIP JOINTS >

Left and right forearm 7 6



28

27

Connector for left and right elbow

Left and right

upper arm

18 Connector for left and right elbow (exterior)

(interior)

19

17

5

4

2. Attach the thighs (part #8 or 9) by holding them with hip joints connectors. (part # 20 or 21)

1. First, take off the hip joints connector(s)

(part # 20, 21) from the trunk.

% Make sure not to confuse left and right parts.

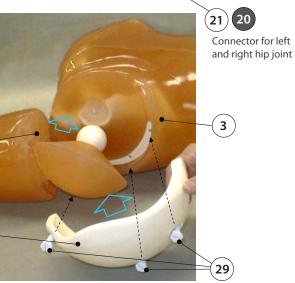
(29) Screw bolt for hip joint M8×35×6

Left and right thigh (**9**

8

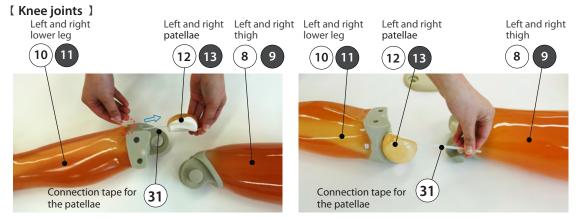
3

Connector for left (21 and right hip joint 20

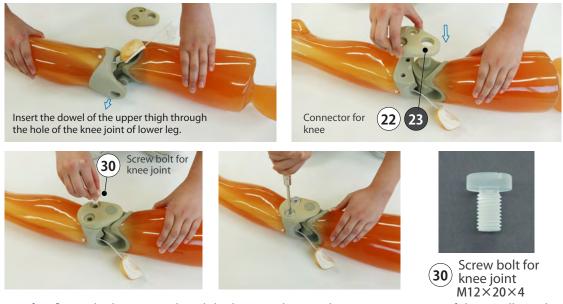


<knees>

1. Insert the connection tape for the patellae (part#31) to the hole of lower leg (part# 10, 11). Also insert the tape to the 2 guide apertures of the patella.



- * There are indication of L (left) or R (right) in the backside to the left and right patellae.
- 2. Connect the thigh (#8, 9) and lower leg (#10, 11) with the knee joint. Insert the dowel of the upper thigh through the hole of knee joint of lower thigh. Set the Connector for knee (#22, 23) to the inside of knee then screw the knee joint bolt (#30) to fix it.



3. After fixing the knee joint, bend the knee and insert the connection tape of the patella to the guide aperture of the thigh.





<HEAD AND STAND > 1. Assemble a positioning head stand. 2. Sustain a height adjustment panel and (36) base panel by bolts. 34 (37) Screw bolt M6×21×2 35 37 (33) (32) 3. Fix beginning neck connector and a bottom share of the head by bolts with an attached (33) 1 minus screwdriver. Screw bolt for neck (25) connection M10×20×2 (25) 4. Setting completion of the head.





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