

MW2A

Male Catheterization/Enema Simulator

Instruction Manual



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Introduction

Manufacturer's note

This male Catheterization/Enema Simulator has been developed for the training of medical and nursing professionals only. Any other use, or any use not in accordance with the enclosed instructions, is strongly discouraged. The manufacturer cannot be held responsible for any accident or damage resulting from such use. Please use this model carefully and refrain from subjecting to any unnecessary stress or wear. Should you have any questions on this simulator, please feel free to contact our distributor in your area or KYOTO KAGAKU at any time. (Our contact address is on the back cover of this manual)

● Features

- Basic high quality training in male and female: urethral catheterization, perineal care and enema.
- Form of genitalia, urethra, and bladder are anatomically correct.
- Successful insertion is confirmed by urine (water) outflow.
- Organ unit can be used separately, allowing training with SPs or full body manikins in clinical setting.

DOs and DON'Ts

DOs

- Handle the manikin and the components with care.
- Storage in a dark, cool space will help prevent the skin colours from fading.
- The manikin skin may be cleaned with a wet cloth, if necessary, using mildly soapy water or diluted detergent.

DON'Ts

- Do not let ink from pens, newspapers, this manual or other sources come in contact with the manikin, as they cannot be cleaned off the manikin skin.
- Never use organic solvent like paint thinner to clean the skin, as this will damage the simulator.

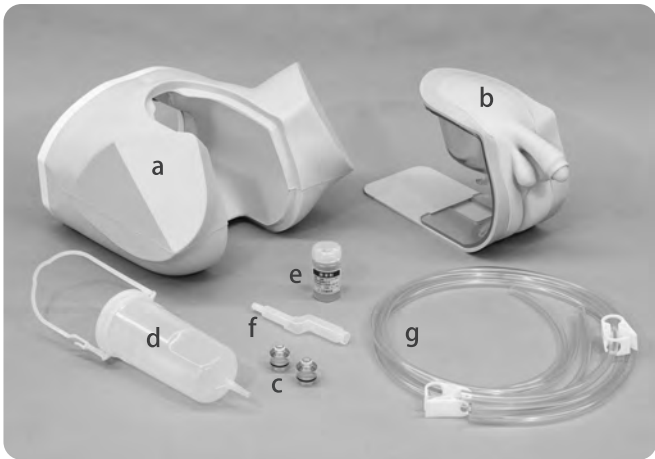
Before You Start

Set includes

Set Includes

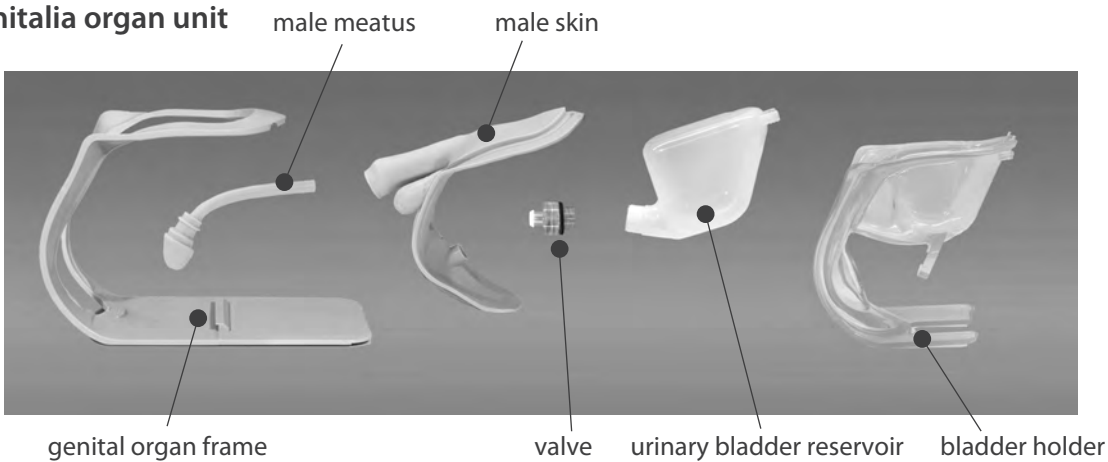
Please read carefully before use

Before your first use, ensure that you have all components listed below.



- a. Lower torso manikin1 piece
 - b. Male genitalia organ unit1 piece
 - c. Valve 3 pieces
(total 3 pcs; one is incorporated in the genitalia unit and two are for future replacement)
 - d. Irrigation bottle1 piece
 - e. Lubricant1 piece
 - f. Rectum unit1 piece
 - g. Irrigation/drainage tubes 3 pieces
(total 3 pcs; 2 are attached with a clamp)
- Guide book

Genitalia organ unit



Consumable parts

code	name
11381-300	replacement valve for MW2A/B (a set of 6)
11381-410	replacement male skin II
11381-500	replacement male meatus (a set of 2)
11381-800	lubricant



11381-300



11381-500



11381-800



11381-410

1 Disassemble the unit

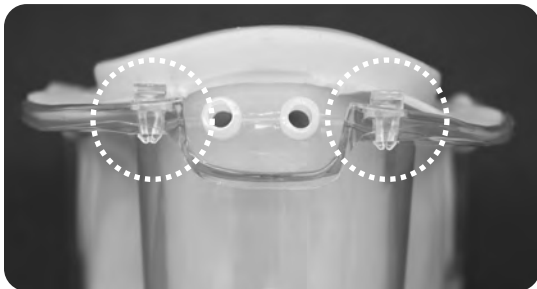
1.Remove the genitalia unit from the torso manikin.

Make room between torso manikin and the genitalia unit by opening the thighs. Then take out the genitalia unit from the torso manikin.

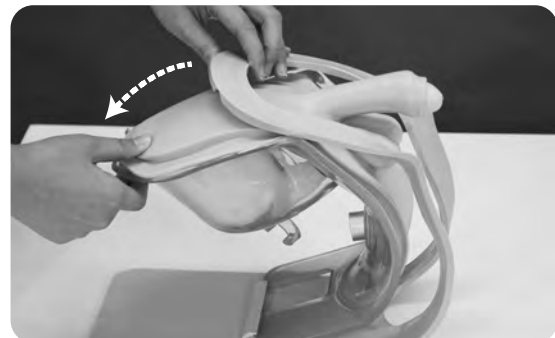


2.Disassemble the genital unit.

a) The genital organ frame and the bladder holder are fixed with two notches and nail shaped fasteners. To disengage the parts, lift the genital organ frame with fingers.

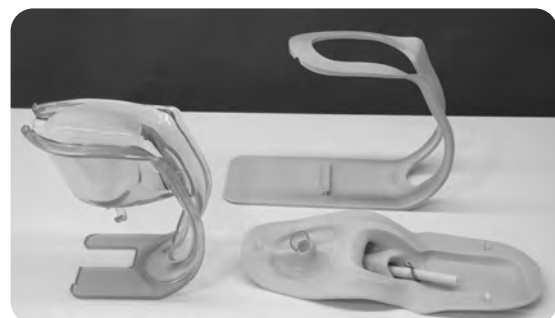
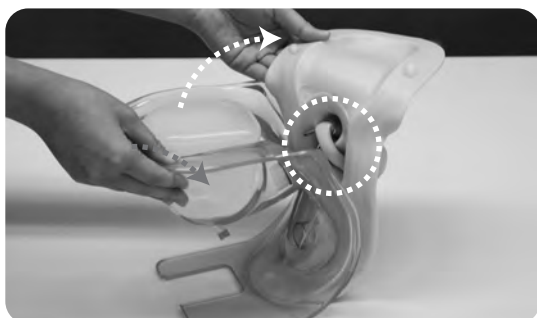


b) Remove the skin with the bladder holder from the outer frame.



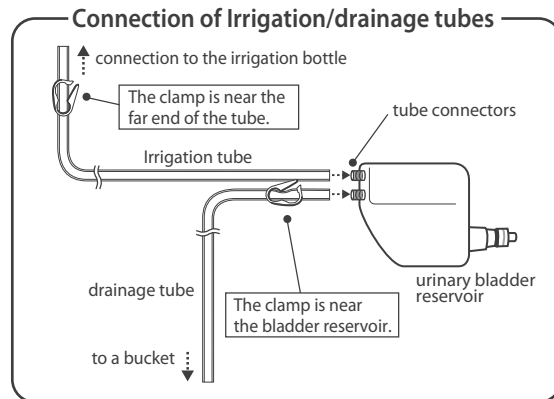
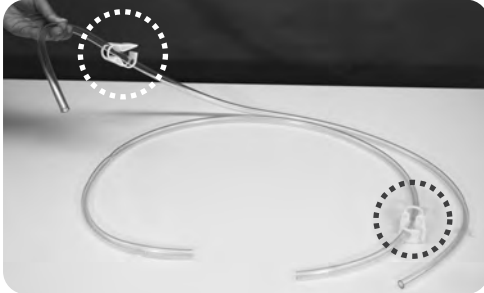
c) Peel the skin from the bladder holder.

* At the time of delivery the urethral tube is not connected to the valve.

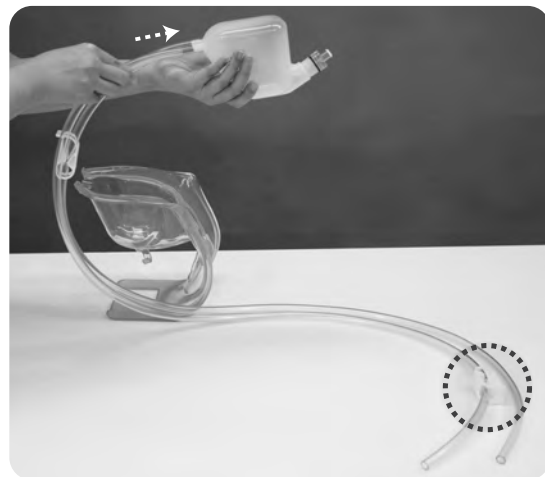
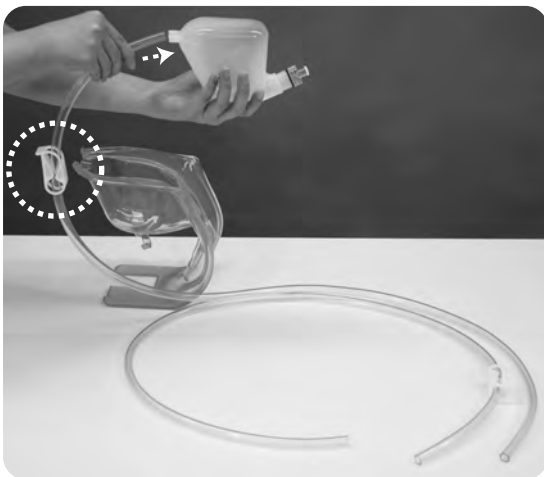


2 Connection of Irrigation/drainage tubes

1. Attach the irrigation/drainage tube with clamp to the connectors at the upper end of the urinary bladder reservoir.



As the photos above, one of the tubes is for irrigation-place and its clamp is near the far end of the tube. The other tube is for drainage-place the clamp around 20-30 cm from the bladder. Then set the bladder reservoir into the bladder holder.



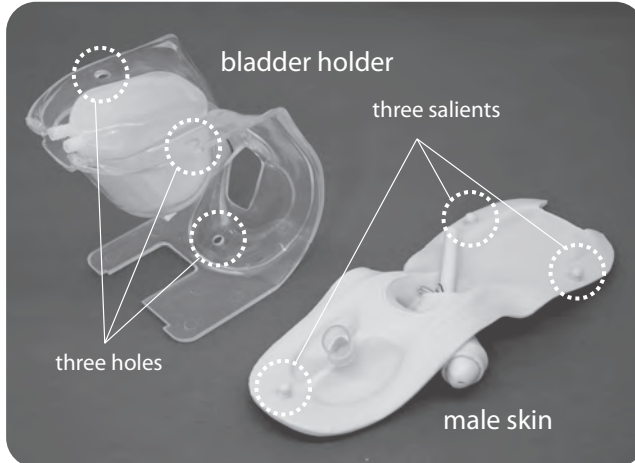
3 Connection of the urethral tube

1. After setting the tube, attach the urethral tube to the valve. Then insert the urethral tube to the valve, and put the clip over it, holding the clip by tucking small wings together with fingers.



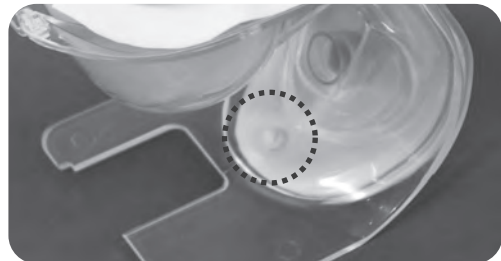
4 Reassemble the genitalia units

1. Attach the skin on the bladder holder.

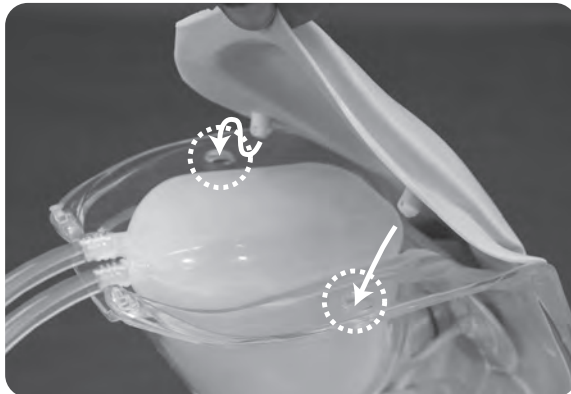


To prevent the skin from slip off the bladder holder, there are three projections on the skin and three holes in the bladder holder.

a) Insert the projection at the bottom of the skin in the lower hole of the bladder holder.

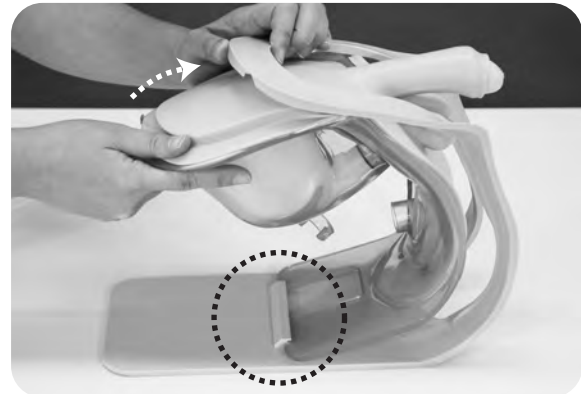


b) Put the skin over the bladder holder and insert two upper projections of the skin in two upper holes of the bladder holder.



2. Set the bladder holder to the genital organ frame.

a) Set the lower edge of bladder holder to the stopper on the frame. Then, holding the frame firmly, push the holder forward.

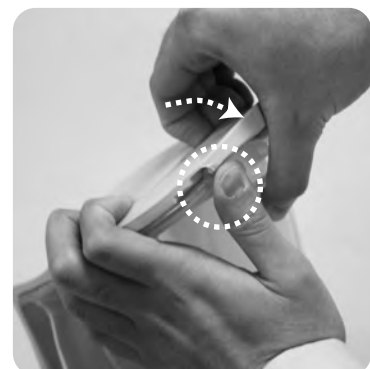


b) To fit the upper side of the skin in the genital organ frame, tuck the skin under the frame with fingers.



c) Then engage the frame and holder by pushing the corner of the genital organ frame forward (to the abdomen side), until clicking sound is heard.

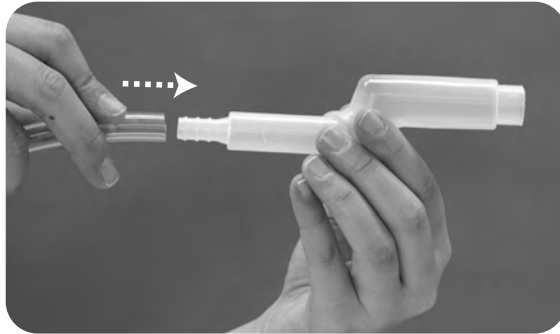
Or, support the fasteners from the back side by fingers and draw the genital organ frame over it toward you.



5 Set the genitalia units to the lower torso body

Training for enema

1. Connect the drain tube to rectum unit.

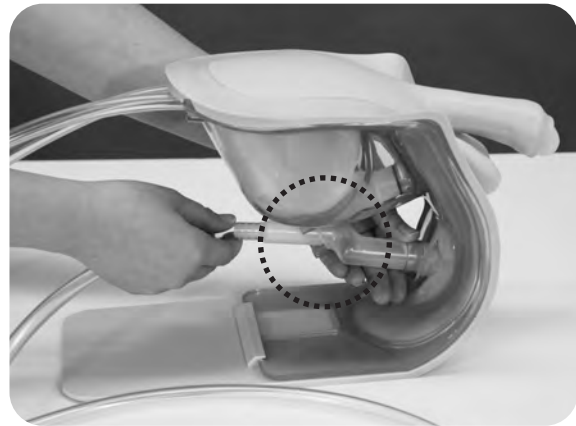
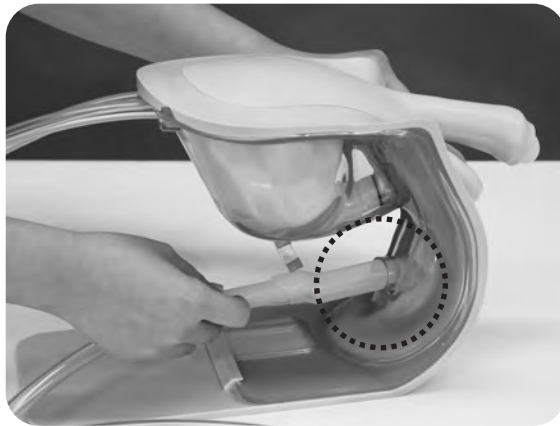


Caution

..... Set the rectum unit with correct angle as picture above.

2. Connect the rectum unit. (For enema training)

Set the rectum unit to the hole of the genitalia unit. Then set it on the hook.



3. Set the genitalia units to the lower torso body.

First put the 3 irrigation/drainage tube through the body and then set the genitalia unit.

Completed the assembly.



6 Connect the Irrigation bottle and fill the bladder with water

1. Connect the irrigation bottle to the irrigation tube which has clamp at near the end side.

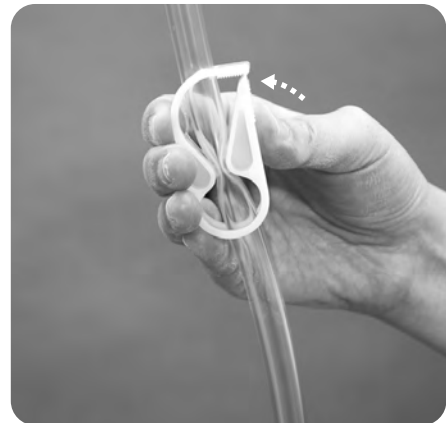
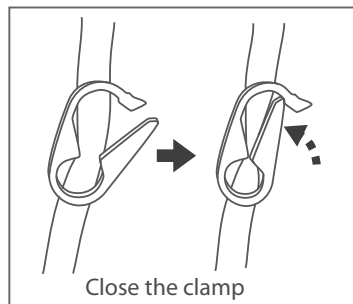


2. Put the tip of drainage tubes for catheterization and enema into the bucket.

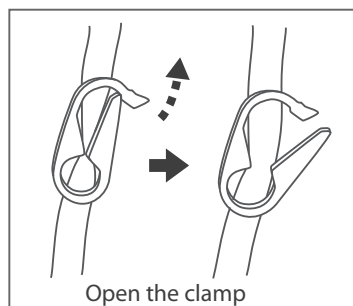


3. Close the clamp of irrigation tube before filling the bottle with water. And open the clamp of the drainage tube.

Irrigation tube



Drainage tube



6 Connect the Irrigation bottle and fill the bladder with water

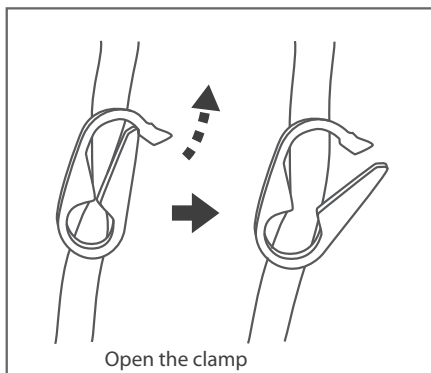
4.Fill the irrigation bottle with simulated urine (water). Then put the cap on the bottle and hang it from the stand.



5.Open the clamp and the simulated urine will be charged into the bladder reservoir.



Irrigation tube



6.Ready.



1 Training procedure

1. Sterilizing of meatus urethra.

Use water instead of actual antiseptic available for training of sterilizing of meatus urethra.

2. Inserting the catheter

Put the catheter in the tray, drip small quantity of lubricant to its tip. Ensure that about 5cm from the tip is coated by lubricant.

*Do not use jelly type lubricant or other items as it will be left inside of the model and dried out.

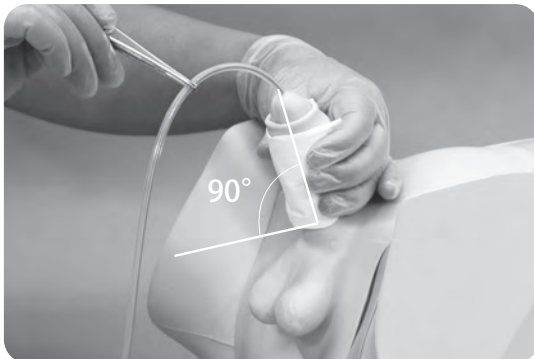
Use the lubricant included in the set.



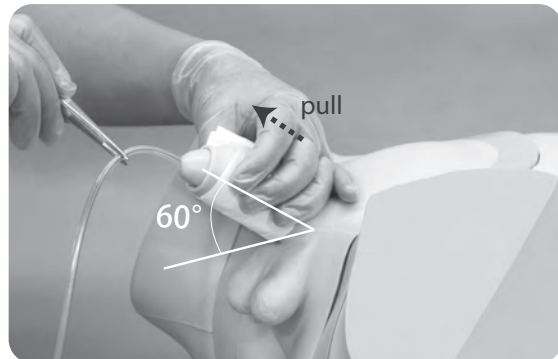
Caution

Use 14-16Fr catheter for this model. Using larger catheter causes breakage of the valve. Do not insert the catheter much longer than it is needed. The valves will be worn shortly.

3. Insert the catheter through the meatus urethra holding the penis at about 90 degrees. During the insertion, the resistance that simulates prostate and external sphincter muscle will be felt.



4. When you feel resistance, lower the penis at about 60 degrees, and insert the catheter while pulling the penis toward you.



Caution

Surgical tape can be used for training of catheter retained in the bladder.

Do not leave the tapes on the model for long time so that its surface will be sticky with adhesive of tapes.

5. Removing the catheter

Discharge the water in the balloon before removing the catheter. It may cause breakage of the valve.



For continued training

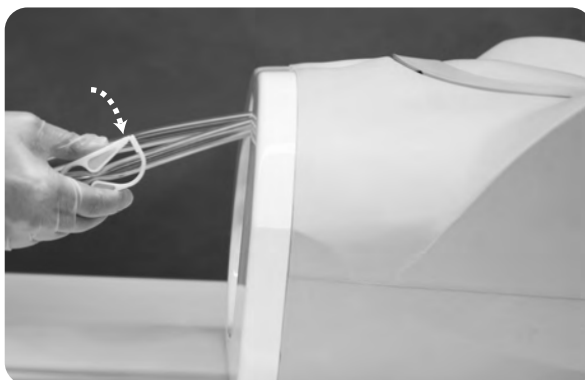
Add the water to the irrigation bottle for each session. Open the clamp of the irrigation bottle and fill it with water until the water comes out from the drainage tube.

2 Manual bladder compression

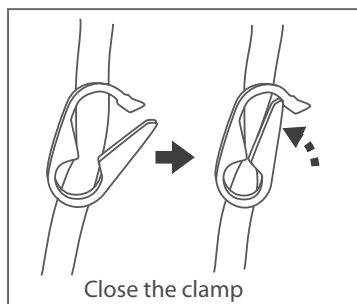
Close the clamps on the irrigation tube and drainage tube for manual bladder compression session.



The clamp of the irrigation tube



The clamp of the drainage tube

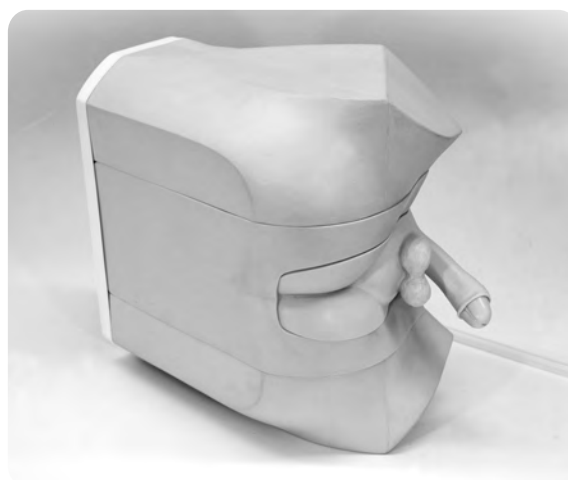


Close the clamp



3 Training for enema

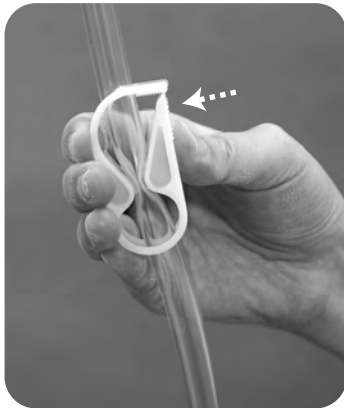
Do the training with left lateral position.



.....
Use plenty amount of attached lubricant for the training. Shortage of the lubricant may cause the difficulty of the proper training.
Enema tube cannot be inserted more than 7cm like real situation.

1 Drainage of water

1. Close the clamp of the irrigation tube. Drain the water in the irrigation bottle and tube when the water remains in it.



2. Remove the genitalia unit from the torso body.

Make room between torso manikin and the genitalia unit by opening the thighs. Then take out the genitalia unit from the torso manikin.



3. Detach the tube for enema training.

Remove from the hook of the bladder reservoir then detach from the unit with drainage tube. Wash the rectum unit and dried naturally, after the training sessions.



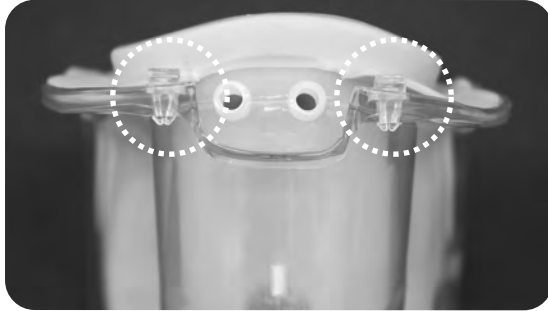
.....
Always keep the clamp open
for storage.



2 Drainage of water in the bladder reservoir

1. Reassemble the genitalia unit.

- a) The genital organ frame and the bladder holder are fixed with two notches and nail shaped fasteners. To disengage the parts, lift the genital organ frame with fingers.



- b) Remove the skin with the bladder holder from the outer frame. Then peel the skin from the bladder holder.



- c) Find the clip that holds the joint between the valve and the urethral tube. Loosen the clip by tucking small wings together with fingers and pull out the urethral tube carefully.



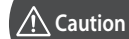
2. Remove the bladder reservoir from the bladder holder. Detach the irrigation and drainage tubes. Then drain the water in the reservoir.

Wipe it off gently to remove the oil and fluid and let it dried naturally.



3 Wipe of the valve and mail meatus

1. After the training, wipe the valve and the urethral tube thoroughly.
Wipe the joint between the valve and the urethral tube to remove the lubricant, using mildy soapy water and let it dry naturally. Remove the lubricant which remains in the urethral tube with cotton swabs.



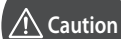
.....
Remaining lubricant may make the connection slippery and make the urethral part easy to come off.

When the lubricant remains between the skin and male meatus, remove the urethral tube by pulling it with peeling the skin of the penis. Then wipe its surface.

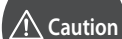
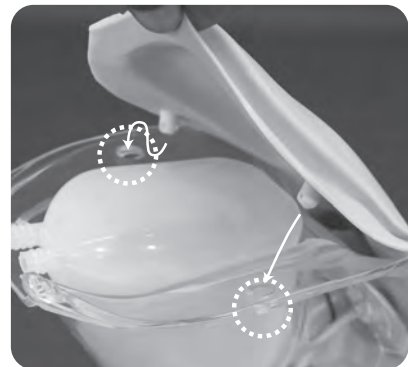
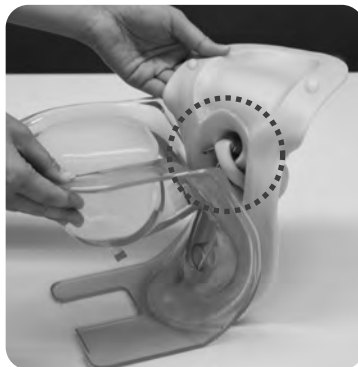
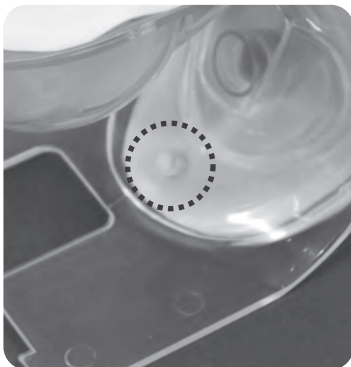


4 Assembly for storage

1. Attach the skin on the bladder holder.
 - a) Insert the projection at the bottom of the skin in the lower hole of the bladder holder.
 - b) Put the skin over the bladder holder and insert two upper projections of the skin in two upper holes of the bladder holder.



.....
Always ensure to disconnect the urethral tube from the valve.

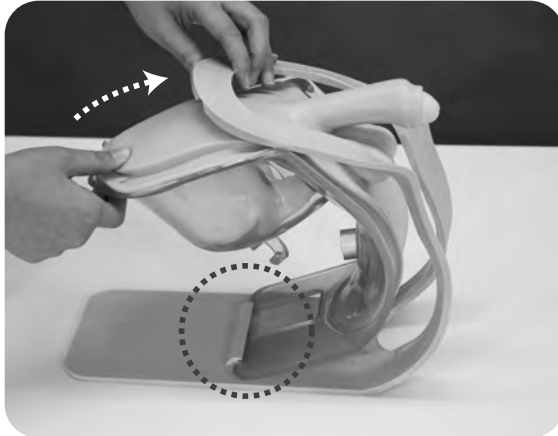


.....
Replace the worn parts into the new ones at this moment.
Refer to P16"② Replacement of the genitalia skin or the urethral tube"for replacing these parts.

4 Assembly for storage

2. Set the bladder holder to the genital organ frame.

a) Set the lower edge of bladder holder to the stopper on the frame. Then, holding the frame firmly, push the holder forward.



b) To fit the upper side of the skin in the genital organ frame, tuck the skin under the frame with fingers.



c) Then engage the frame and holder by pushing the corner of the genital organ frame forward (to the abdomen side), until clicking sound is heard.



Or, support the fasteners from the back side by fingers and draw the genital organ frame over it toward you.



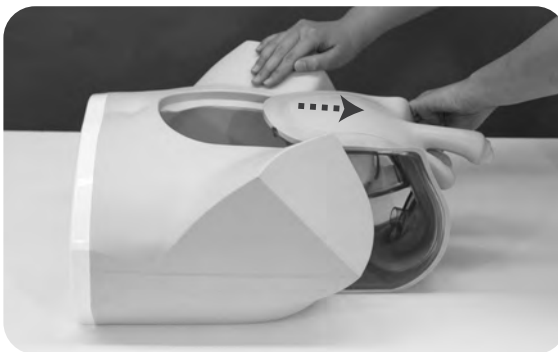
3. Set the genitalia unit to the lower torso model.



1 Disassemble the unit

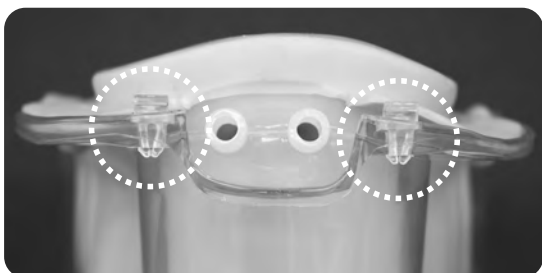
1. Remove the genitalia unit from the torso manikin.

Make room between torso manikin and the genitalia unit by opening the thighs. Then take out the genitalia unit from the torso manikin.

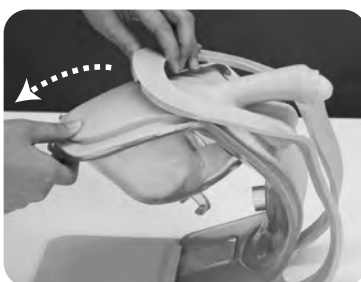


2. Disassemble the genital unit.

- a) The genital organ frame and the bladder holder are fixed with two notches and nail shaped fasteners. To disengage the parts, lift the genital organ frame with fingers.



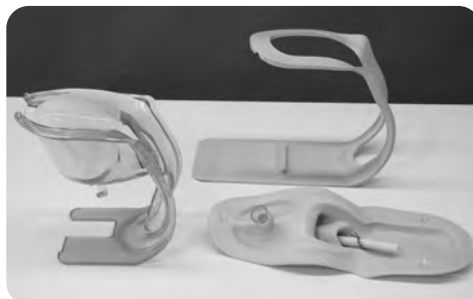
- b) Remove the skin with the bladder holder from the outer frame.



- c) Peel the skin from the bladder holder.



- d) Find the clip that holds the joint between the valve and the urethral tube. Loosen the clip by tucking small wings together with fingers and pull out the carefully.



2 Replacement of the genitalia skin or the urethral tube

1.Remove the urethral tube by pulling it with peeling the skin of the penis.



Caution

.....
Replace the genitalia skin or urethral tube at this moment and assemble the part as P17-18 shows.

3 Replacement of the valve

1.Remove the bladder reservoir from the bladder holder.



2. Unscrew the valve from the bladder reservoir.



3 Replacement of the valve

3. Replace the valve and screw it to the bladder reservoir.

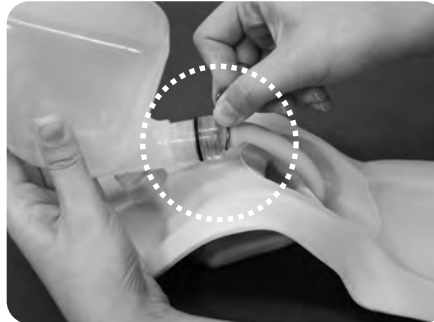


Caution

Be aware that rubber seal is set on the valve, and then screw it to the bladder reservoir.

4 Assembly

1. After set the tube, attach the urethral tube to the valve. Then insert the urethral tube to the valve, and put the clip over it, holding the clip by tucking small wings together with fingers.

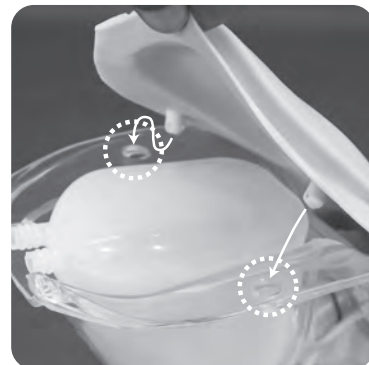
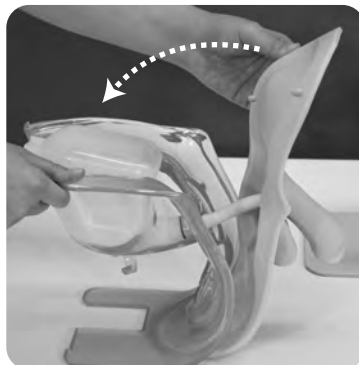
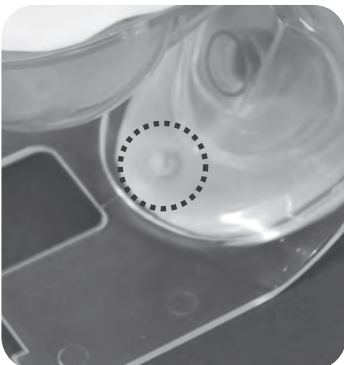


Caution

For storage, be sure to disconnect the urethral tube from the valve.

2. Attach the skin on the bladder holder.

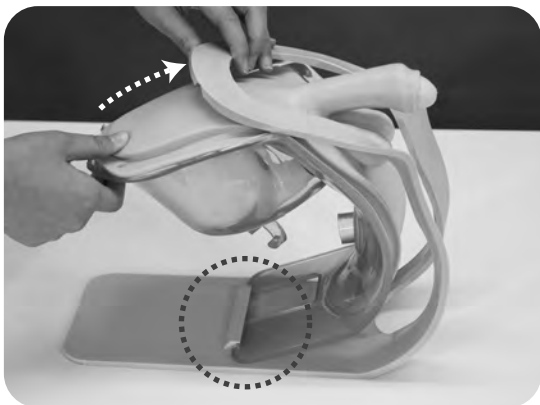
- Insert the projection at the bottom of the skin in the lower hole of the bladder holder.
- Put the skin over the bladder holder and insert two upper projections of the skin in two upper holes of the bladder holder.



4 Assembly

3. Set the bladder holder to the genital organ frame.

a) Set the lower edge of bladder holder to the stopper on the frame. Then, holding the frame firmly, push the holder forward.



b) To fit the upper side of the skin in the genital organ frame, tuck the skin under the frame with fingers.



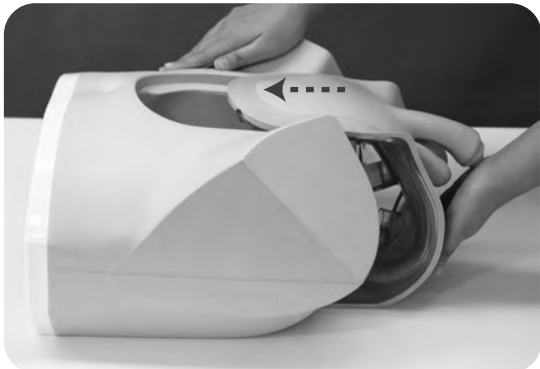
c) Then engage the frame and holder by pushing the corner of the genital organ frame forward (to the abdomen side), until clicking sound is heard.



Or, support the fasteners from the back side by fingers and draw the genital organ frame over it toward you.



4. Set the genitalia unit to the lower torso model.



Caution

.....
Use the proper size catheter. Using larger catheter causes breakage of the valve.



Caution

Do not let ink from pens, newspapers, this manual or other sources come in contact with the manikin, as they cannot be cleaned the manikin skin.

For inquiries and service, please contact your distributor or KYOTO KAGAKU CO., LTD.

FAQ s

Quick check them up before calling the customer service. Use the table if you have problems using the simulator.

Look in this section for a description of the problem to find a possible solution.

Catheterization training

Cases	Reason	Solution
Water leakage	The valve is worn.	Replace it to the new valve
	Loose connection of the valve and bladder reservoir or meatus urethra.	Confirm the connection of the valve and bladder or meatus urethra, reconnect it tightly.
Water does not come out though the catheter is inserted.	There is no water in the bladder reservoir.	Fill water into the bladder reservoir by using irrigation bottle.
	Clamps of the irrigation and drainage tubes are closed.	Open the both clamps of irrigation and drainage tubes.

Enema Training

Cases	Reason	Solution
Glycerin enema tube can be inserted more than 7cm.	Connection of the genitalia organ unit and rectum unit is not correct.	Confirm the connection of the genitalia organ unit and rectum unit. Then set them steadily.



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Please contact manufacturer for extra copies of this manual which may contain important updates and revisions.

Please contact manufacturer with any discrepancies in this manual or product feedback. Your cooperation is greatly appreciated.