

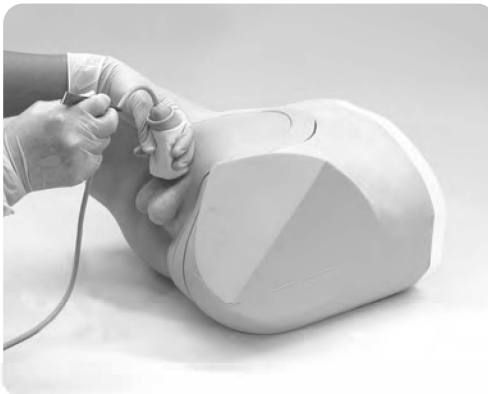
⚠ Attention | Do not let ink from pens, newspapers, product manual or other sources contact the manikin. Ink marks on the manikin will be irremovable.


MW2A

Male Catheterization/Enema Simulator

取扱説明書

Instruction
manual



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MW2A 

Male Catheterization/Enema Simulator

Instruction manual

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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

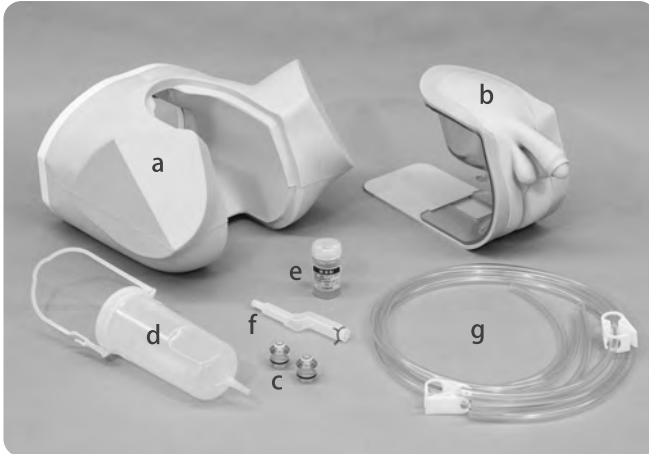
- Do not let ink from pens, newspapers, product manual or other sources contact the manikin. Ink marks on the manikin will be irremovable.
- Never use organic solvent like paint thinner to clean the skin, as this will damage the simulator.
- Please use the genuine lubricant included in the set. Usage of other lubricants will cause damage to the model in a short time as in the following cases:
 - Jelly-type lubricants which remain in the model will harden and cause damage to the valves.
 - Water-soluble jelly-type lubricants will be washed out during urethral catheterization, which will decrease lubricating ability.

- The color of the tube or soft resin parts may change across the ages, but this has no affect ton the simulator use.

Set Includes

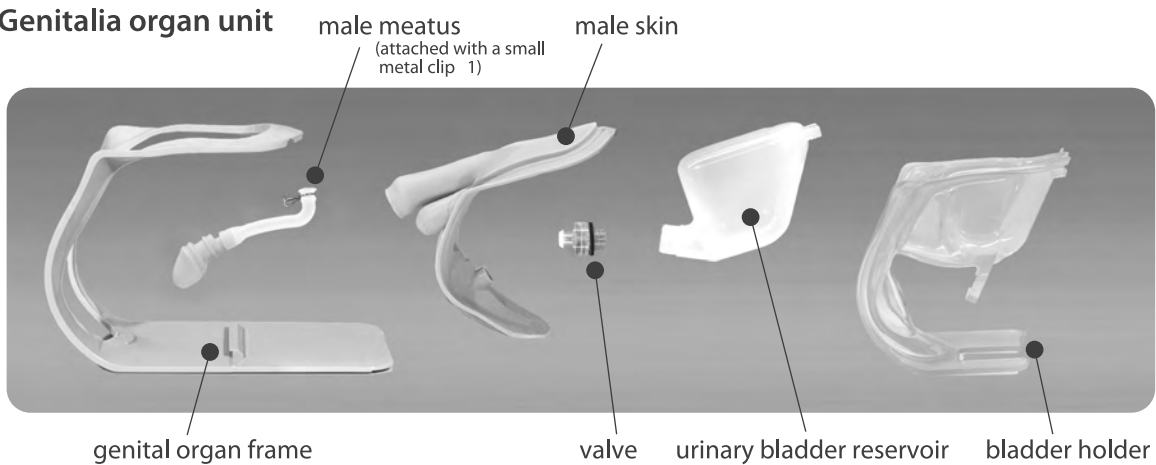
Please read carefully before use

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



- a. Lower torso manikin 1
 - b. Male genitalia organ unit 1
 - c. Valve 3
(total 3 pcs; one is incorporated in the genitalia unit and two are for future replacement)
 - d. Irrigation bottle 1
 - e. Lubricant 1
 - f. Rectum unit 1
(attached with a large metal clip 1)
 - g. Irrigation/drainage tubes 3
(total 3 pcs; 2 are attached with a clamp)
- Instruction manual

Genitalia organ unit



Consumable parts

code	name
11381-300	replacement valve for MW2A/B (a set of 6)
11381-410	replacement male skin II
11381-510	replacement male meatus II (a set of 2) * metal clips are not included
11381-800	lubricant



11381-300



11381-510



11381-800



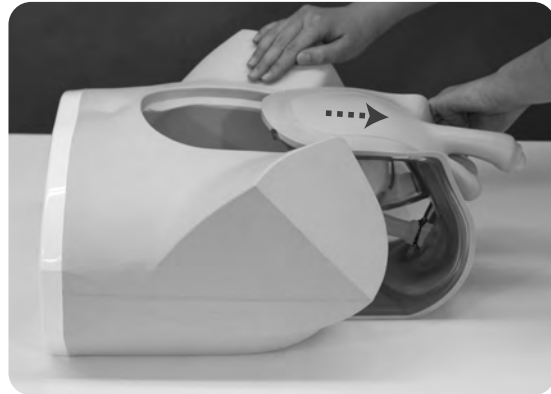
11381-410

1 Connection of Irrigation/drainage tubes

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.



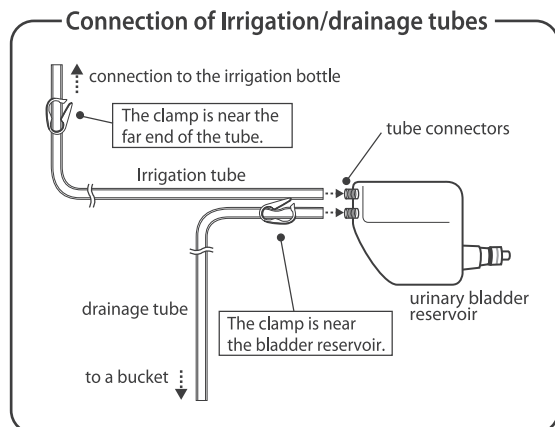
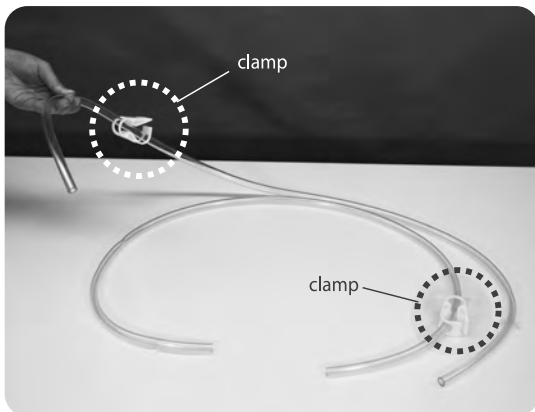
Genitalia unit



There are two tube connectors on the backside of the unit.

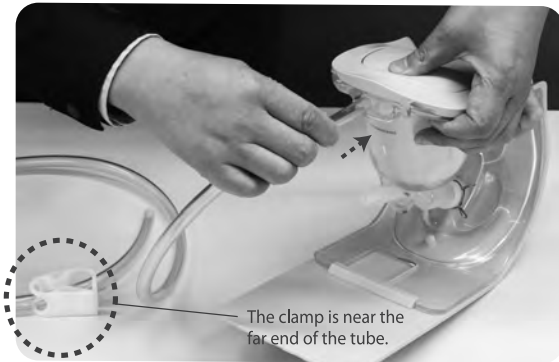


2. Attach the irrigation/drainage tubes with clamp to the connectors at the upper end of the urinary bladder reservoir.



1 Connection of Irrigation/drainage tubes

3. One of the tube connector is for irrigation and the clamp should be placed at the far end of the tube.



4. The other tube connector is for the drainage and the clamp on the tube should be placed around 20-30cm from the bladder.



5. Connect the drain tube with no clamp to the rectum unit.



.....
When attaching the tubes to the unit, please hold the unit with one hand while inserting the tube to the port.



6. Set the genitalia units to the lower torso body. First put the 3 irrigation/drainage tubes through the body and then set the genitalia unit.



Assembly complete.



2 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 far end.

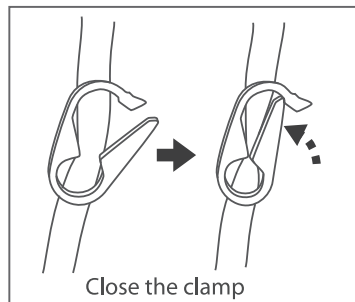


2. Put the tip of drainage tubes for catheterization and enema into the bucket.

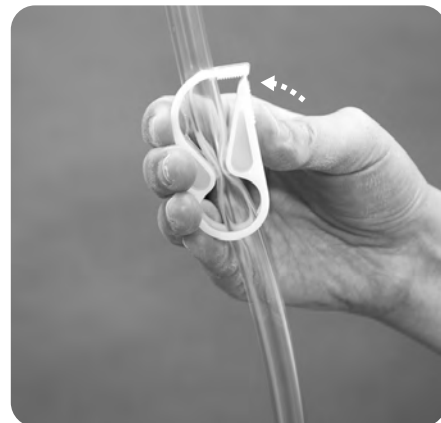


3. Close the clamp of irrigation tube before filling the bottle with water. And open the clamp of the drainage tube.

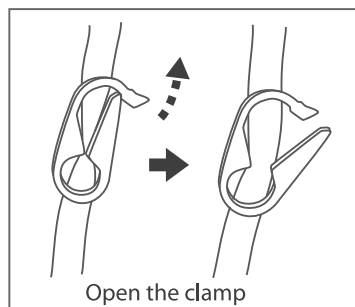
Irrigation tube



Close the clamp



Drainage tube

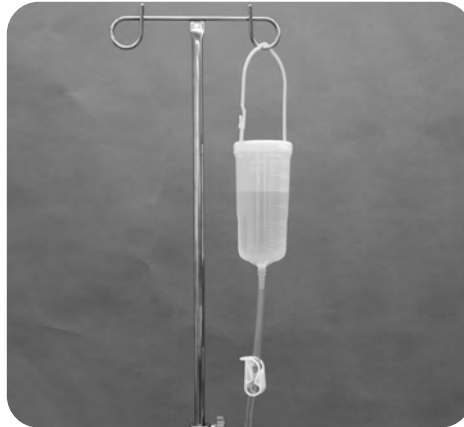


Open the clamp



2 Connect the Irrigation bottle and fill the bladder with water

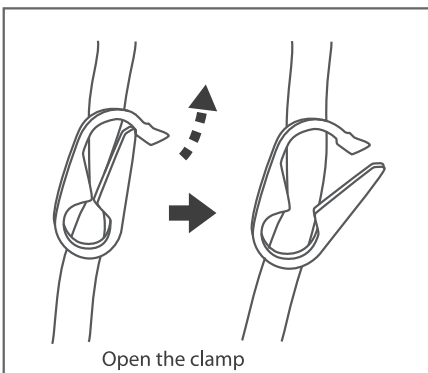
4. Fill the irrigation bottle with simulated urine (water). Then put the cap on the bottle and hang it from the stand.



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



Irrigation tube



6. Ready.



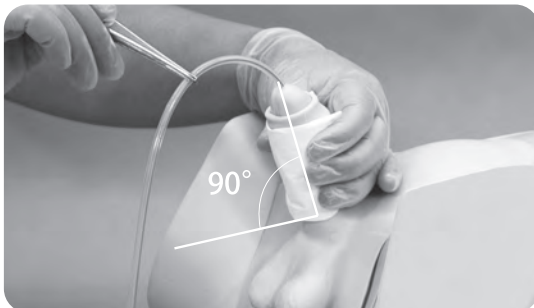
1 Training procedure

1. Sterilizing of meatus urethra.
For training of sterilizing of meatus urethra, use water instead of actual antiseptic.
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. Use the lubricant included in the set.



.....
Use 14-16Fr catheter for this model. Using larger catheter causes breakage of the valve.
Please use the genuine lubricant included in the set. Usage of other lubricants will cause damage to the model in a short time as in the following cases:
 - Jelly-type lubricants which remain in the model will harden and cause damage to the valves.
 - Water-soluble jelly-type lubricants will be washed out during urethral catheterization, which will decrease lubricating ability.
 Product code of the genuine lubricant is 11381-800. Please refer to Page 24.

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.



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.

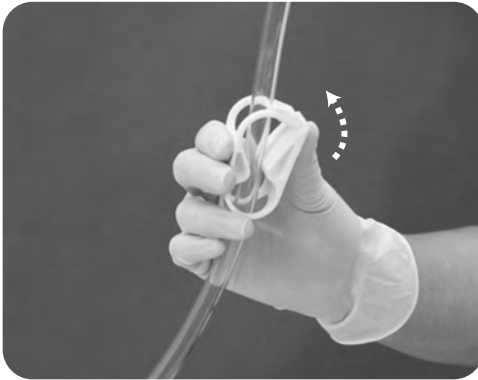
5. Removing the catheter
Discharge the water in the balloon before removing the catheter. Inflated balloon may cause breakage of the valve.



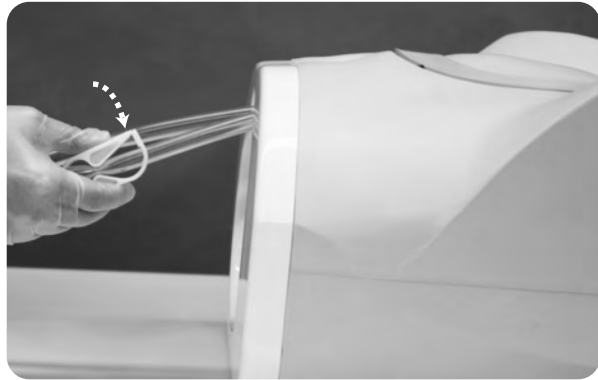
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The bladder reservoir needs to be refilled after EACH successful catheterization.
In case water in the reservoir is low, water will not be flow out even when tip of the catheter reached in the bladder reservoir.

2 Manual bladder compression

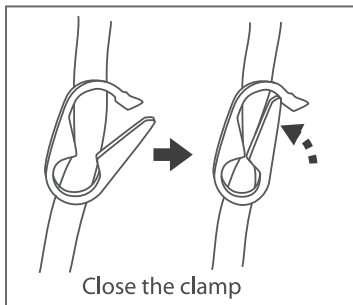
Close the clamps of the irrigation tube and drainage tube for manual bladder compression session.



The clamp of the irrigation tube



The clamp of the drainage tube



Close the clamp

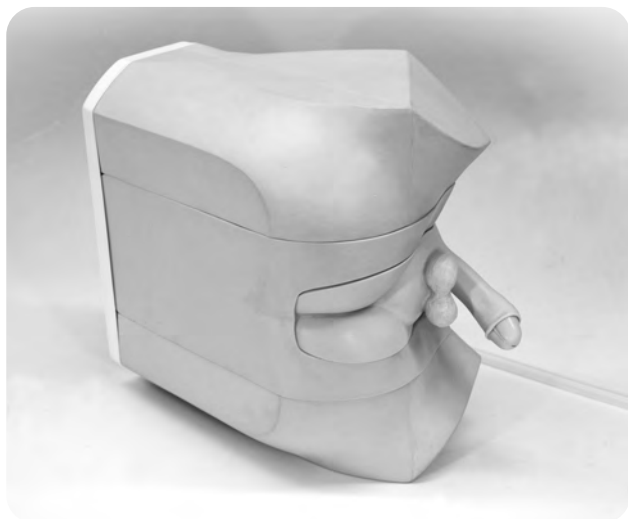


3 Training for enema

Do the training with left lateral position.

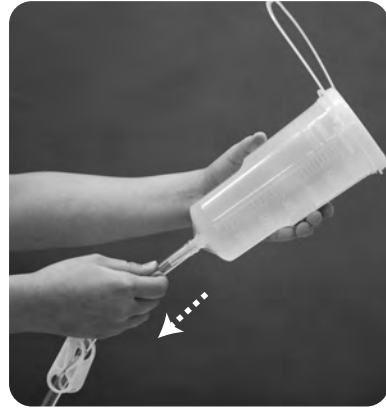


Use plenty amount of genuine lubricant for the training. Insufficient lubrication may cause the difficulty in the training. Enema tube cannot be inserted more than 7cm like real situation.



1 Drainage of water

1. Close the clamp of the irrigation tube. Drain the water from the irrigation bottle.

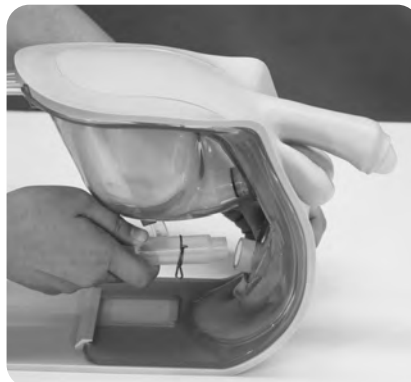


2. Remove the genitalia unit from the torso body.

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

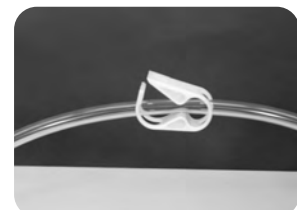


3. Detach the rectum unit for enema training. Loosen the metal clip (large) by tucking small wings together with fingers and remove the rectum unit from the hook of the bladder reservoir. Detach from the connector. Wash the rectum unit and let it dry naturally after the training sessions.



Caution

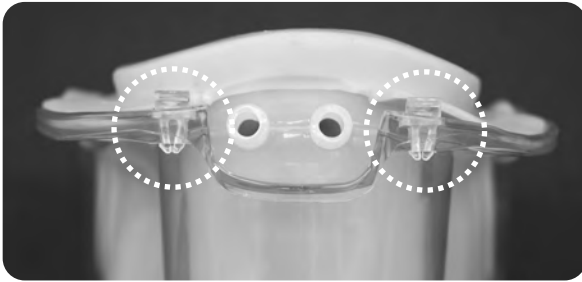
Always keep the clamp open for storage.



2 Drainage of water in the bladder reservoir

1. Disassemble 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 metal clip (small) 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 from the reservoir.



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 mildly soapy water and let it dry naturally. Remove the lubricant which remains in the urethral tube with cotton swabs.



Caution

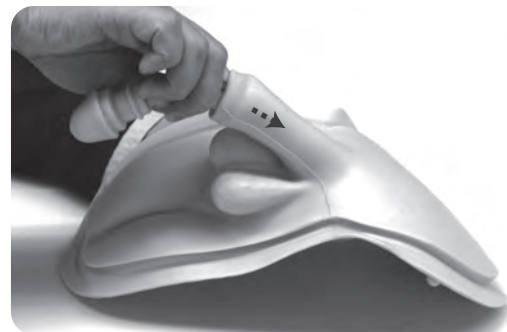
Be sure to remove all lubricant thoroughly. Remaining lubricant may make the connection slippery and make the urethral part easy to come off.

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



4 Assembly for storage

1. After thoroughly cleaning and drying each part, insert the male meatus into the foreskin as shown below. Pull the male meatus from the other end of the skin layer to adjust.

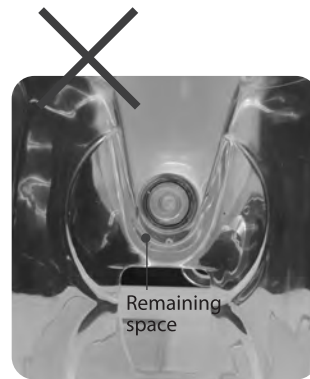


Caution
The urethra parts are composed of soft resin; please handle gently.

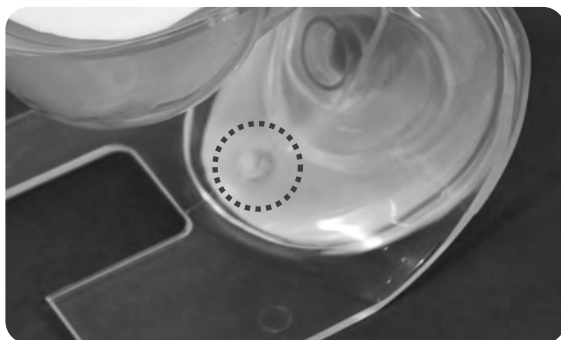
4 Assembly for storage

2. Set the bladder reservoir into the bladder holder.

Tightly press down the reservoir into the holder to leave no spaces on the bottom between the reservoir and frame.




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

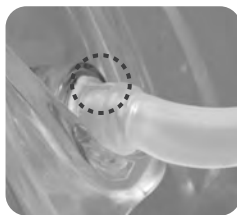


4. Attach the urethral tube to the valve.



Caution

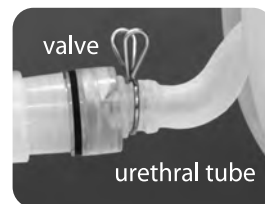
Take note of the direction of the tube and orient it so that the projection  on the tube faces upward. Ensure to place the tube securely over the connector of the valve.



5. Then insert the urethral tube to the valve, and put the metal clip over it, holding the clip by tucking small wings together with fingers.



valve

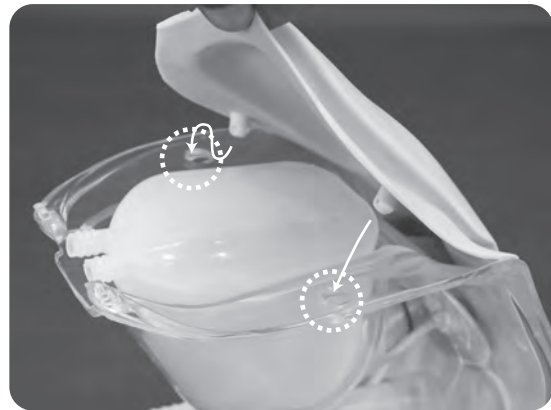
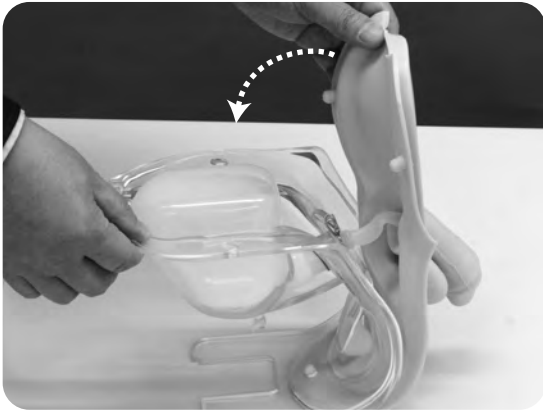


valve

urethral tube

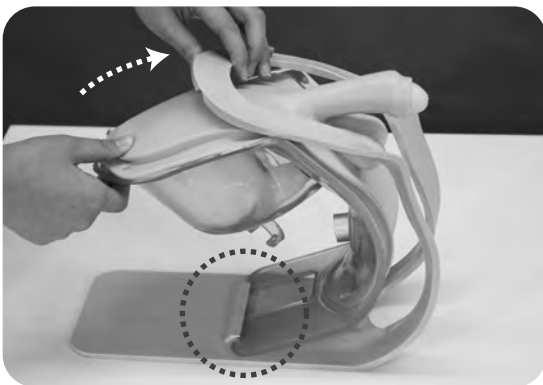
4 Assembly for storage

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



7. 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.



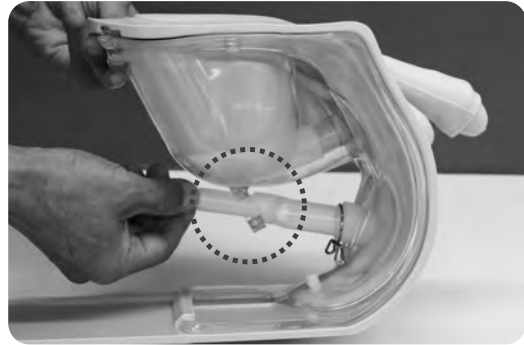
Or, support the fasteners from the back side by fingers and draw the genital organ frame over it toward you.



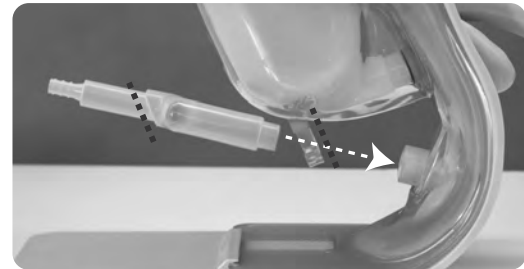
4 Assembly for storage

8. Connect the rectum unit.

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



.....
Set the rectum unit with correct angle as shown in the picture.



9. Secure the rectum unit with the metal clip.



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



Replacement of consumable parts

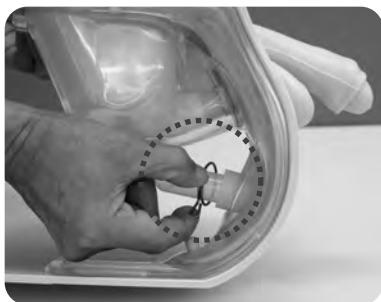
1 Disassemble the unit

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. Detach the rectum unit for enema training. Loosen the metal clip by tucking small wings together with fingers and remove the rectum unit from the hook of the bladder reservoir. Detach from the connector.



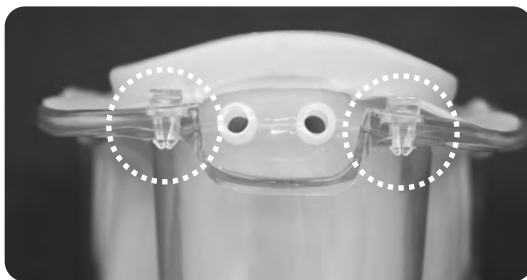
Caution



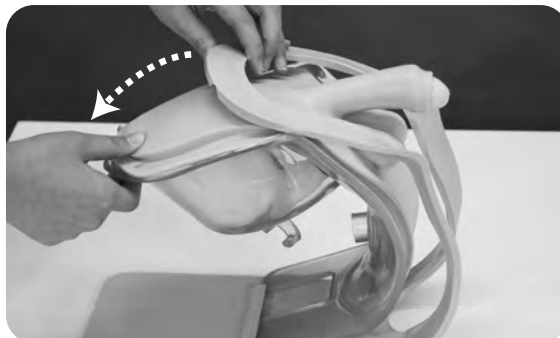
Support and hold tube connector port when removing the rectum unit.

3. 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.



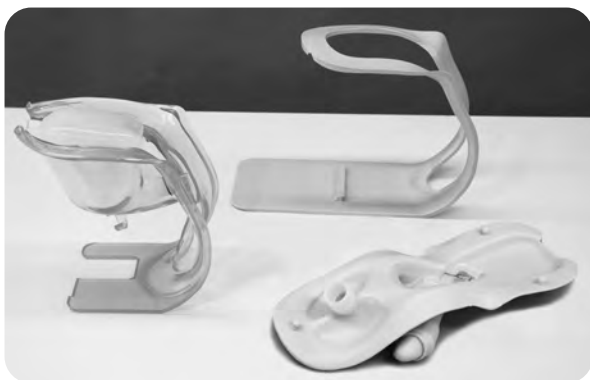
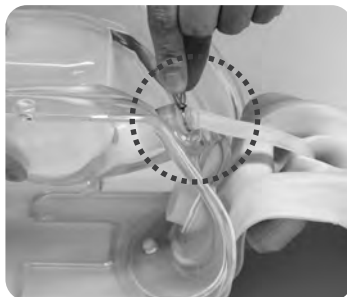
Replacement of consumable parts

1 Disassemble the unit

c) Peel the skin from the bladder holder.



d) Find the metal 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.
(Assemble the genitalia skin and the urethral tube as P33 shows.)



 Caution

.....
Replace the genitalia skin or urethral tube at this moment and assemble the part as P39-40 shows.

Replacement of consumable parts

3 Replacement of the valve

1. Remove the bladder reservoir from the bladder holder.



2. Unscrew the valve from the bladder reservoir.



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



 **Caution**

.....
Ensure that rubber seal is set on the valve, before screw it to the bladder reservoir.

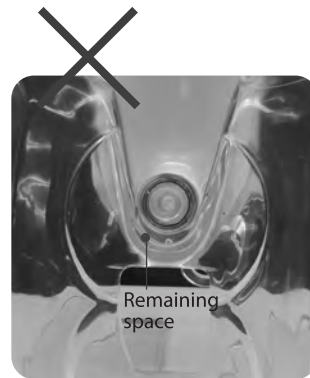


Replacement of consumable parts

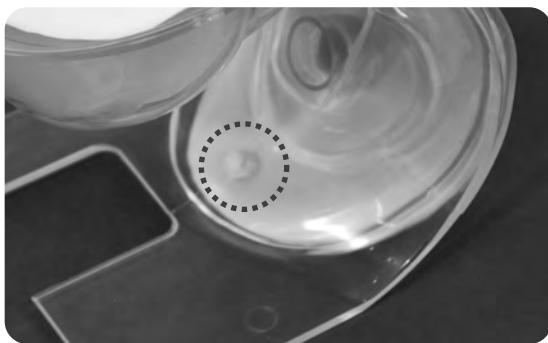
4 Assembly for storage

1. Set the bladder reservoir into the bladder holder.

Tightly press down the reservoir into the holder to leave no spaces on the bottom between the reservoir and frame.




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



3. Attach the urethral tube to the valve.

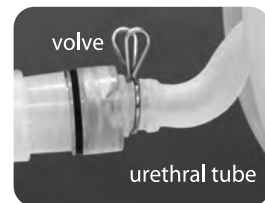


 Caution

Take note of the direction of the tube and orient it so that the projection  on the tube faces upward. Ensure to place the tube securely over the connector of the valve.



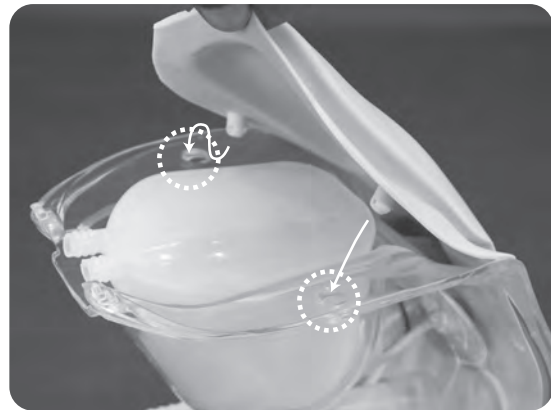
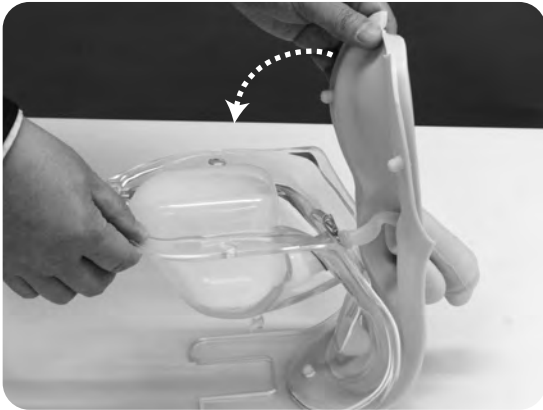
4. Then insert the urethral tube to the valve, and put the metal clip over it, holding the clip by tucking small wings together with fingers.



Replacement of consumable parts

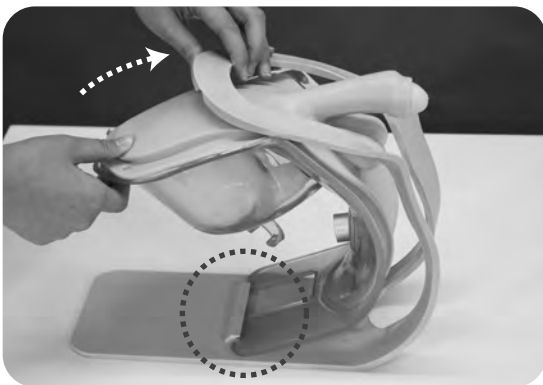
4 Assembly for storage

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



6. 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.

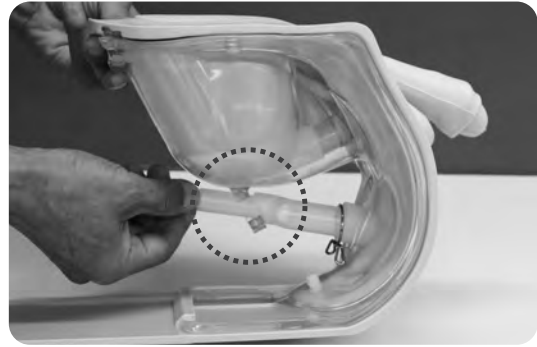


Replacement of consumable parts

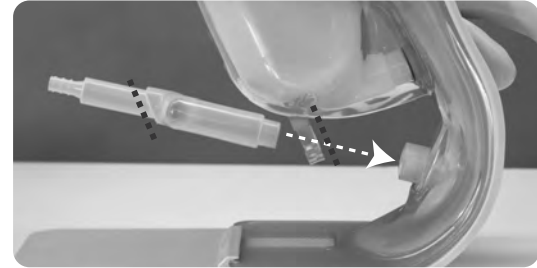
4 Assembly for storage

7. Connect the rectum unit.

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



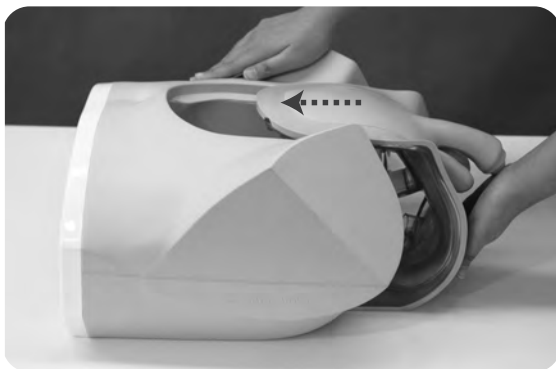
.....
Set the rectum unit with correct angle as shown in the picture.



8. Secure the rectum unit with the metal clip.



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



FAQ s

Quick check-up before calling the customer service, when the you have problems in using the simulator. Look in the "cases" 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 with the new valve
	Loose connection of the valve and bladder reservoir or meatus urethra.	Check the connection of the valve and bladder or meatus urethra, reconnect them tightly. Ensure that the metal clips securing the bladder or meatus urethra are firmly in place.
Water does not flow out when the catheter is inserted.	Water in the bladder reservoir is low.	Fill water into the bladder reservoir by using irrigation bottle.
	Clamps of the irrigation and/or drainage tubes are closed.	Open the both clamps of irrigation and drainage tubes.
Valve is easily damaged	Using a non-genuine lubricant that is not included in the set.	Use the lubricant included in the set.
	Using a catheter larger than the recommended size.	Use a catheter of the recommended size of 14-16 Fr.

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.	Check the connection of the genitalia organ unit and rectum unit. Then set them steadily.
Water leakage		Ensure that the metal clips securing the genitalia organ and rectum unit are firmly in place.

**Caution**

Do not let ink from pens, newspapers, product manual or other sources contact the manikin. Ink marks on the manikin will be irremovable.

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

URL <http://www.kyotokagaku.com> e-mail rw-kyoto@kyotokagaku.co.jp

■ Main Office and Factory (World Wide)

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