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# SANITARY WARE SPECIFICATION SHEET

Item Descriptions	Stern (Israel) "Nara 2032" Touch-free electronic infrared sensor toilet dual flush valve with a mechanical override button in AC Supply with 5m wire AC 110-240 Vac 50/60Hz to 9V 0.3A <b>IP68 waterproof switching transformers</b>
Model	Nara 2032 E
Coda Number	160410
Finish	Satin Finish
Source	Acme Sanitary Ware Co. Ltd Mr. Eric Wong / Mr. Don Yuen
Contact Tel/Fax	(852) 2388-7171 / (852) 2710-8012
E-mail	acme@acmesanitary.com.hk
Website	www.acmesanitary.com.hk

**NARA 2032 E Ref # 160410**  
 Touch-free electronic W.C. flush valve with a mechanical override button. Activated by a dual flush infrared sensor. Metallic panel in satin finish. Shut-off valve, filter and a low battery indicator are included. Powered by a 9V transformer. With a 24-hour hygiene flush. Adjustable settings by remote control: sensor range, security time, delay in, delay out, on-off and reset to factory settings. Low consumption options and pre-flush operation are available upon request.

**Application:**  
 Helps washrooms stay clean and saves water. Ideal for educational institutions, gas stations, restaurants. In addition, its minimalistic style makes it perfect for any locations with high design standards.

**Use:**  
 Touch-free electronic W.C. flush valve. Water will flush after the user moves away from the toilet. If the user spends less than one minute in front of the sensor, a half flush (3 liters) will take place. For more than one minute, a full flush (6 liters) will take place.

PRODUCT AT A GLANCE					
Installation	Concealed. Iron frame available				
Power Supply	• 9V battery • 9V transformer				
Operating pressure	1.0-8.0 bar / 14.5-116.0 PSI				
Water flow	3 LPF half flush / 0.8 GPF 6 LPF full flush / 1.58 GPF				
ECO - Water saving option	4.5 LPF full flush / 1.18 GPF				
ORDERING INFORMATION			OPTIONS		
MODEL	CODE	POWER	ADDITIONAL FEATURES	OPTION	CODE
NARA 2032	160310	9V battery	Dual flush operation	Remote control	07100006
NARA 2032 E	160410	9V transformer	With a mechanical override flush button	Iron frame	Upon request
NARA ECO 2032	160320	9V battery	Dual flush operation Water saving LEED setting	Matching urinal flush valve	Upon request
NARA ECO 2032 E	160330	9V transformer	With a mechanical override flush button	Set of pipes	07291037

Illustration/ Drawing

**Installation:**  
 Concealed

**Operating pressure:**  
 1.0 – 8.0 bar

**Power source:**  
 9V Transformer

\* All information of the above is for the reference only. No prior notice is made if any changes.



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## SPARE PARTS LIST

**Nara 2032 E**  
(160410)

Quantity	Part Number	Description	Cat. No.
	<b>1</b>	<b>Panel Kit (without sensor)</b>	<b>07040192</b>
	-	<b>SA Duet Sensor Kit</b>	<b>07220061</b>
1	2	SA Duet sensor	
6	3	Screw	
	-	<b>Solenoid Valve Kit with Acetal Body</b>	<b>07230015</b>
1	4	Solenoid	
1	5	O-Ring	
	<b>8</b>	<b>Piston Kit</b>	<b>07290038</b>
		<b>Piston+Piston Cover Kit</b>	<b>07290049</b>
1	8	Piston Kit	
1	7	Piston Cover Kit	
6	11	Screw	
	<b>6</b>	<b>Push Button Kit</b>	<b>07245018</b>
	<b>9</b>	<b>Push Button Kit for Panel</b>	<b>07245015</b>
	<b>10</b>	<b>Transformer</b>	<b>TBC</b>

**Note:** In order to locate the relevant spare part, please check the corresponding parts and part number in the drawing. Minimum order quantity will be required.

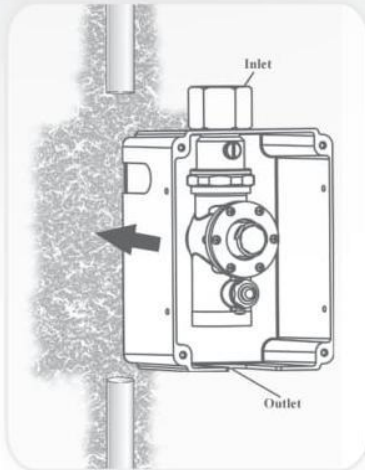
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# INSTALLATION

**NARA 2032 E**

## Step 1 – Installing the flush valve and connecting the water supply



- 1) Shut off the water supply.
- 2) Cut an adequate opening in the wall for the dimensions of the box and the sleeve (not supplied) where you will accommodate the transformer cable.
- 3) Insert the electronic flush valve's box through the opening.
- 4) Connect the flush valve inlet to the water supply.
- 5) Connect the flush valve outlet nipple to the pipe leading to the W.C.'s inlet.
- 6) Turn on the water supply. Make sure there is no water leakage.

- 7) Assemble the temporary protective cover to protect the flush valve.

## Step 2 – Connecting the power source

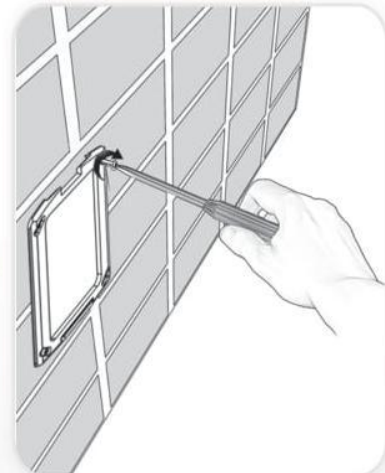
- 1) Place the transformer near the electricity plug, insert the transformer cable wire through the box.

- 2) Once the electricity, plumbing and tiles works are finished, replace the temporary protective cover with the plastic seat. Adjust it using the four screws provided.

- 3) Connect the electronic unit connector that leads to the solenoid valve to the solenoid connector.

- 4) Connect the other electronic unit connector to the transformer cable connector.

- 5) Before assembling the panel, consider using the provided adjusting screw in order to optimize the operation of the mechanical button. If needed, assemble the adjusting screw to the mechanical button at the internal side of the panel and adjust it to the desired distance.







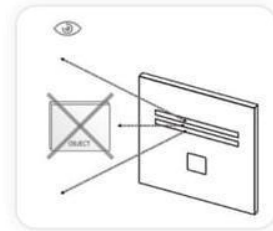
## INSTALLATION

NARA 2032 E

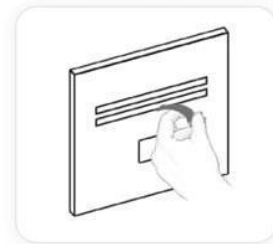
6) Assemble the panel to the cover seat and tighten it with the bottom screw.



7) The ideal sensor range for the specific location will be set automatically. Right now, check that no objects are in front of the sensor.



8) Remove the protective sticker covering the sensor.



9) Plug in the transformer. Keep away from the sensor range.

10) Wait about 30 seconds before you step or put your hand within the sensor range. As an indication that the self adjusting is taking place, a red light in the sensor eye will flash continuously. The solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range was set and the product is ready for use.

11) To operate, step within the sensor range for a minimum of 8 seconds. Move away and the flush valve will flush a few seconds after your departure.

12) If needed adjust the flow rate by turning the regulating valve. In order to avoid entering into the self adjusting mode, do not disconnect the cables between the electronic unit and the transformer.

13) If the range is unsatisfactory, refer to the section entitled "Settings Adjustment".



# TROUBLE – SHOOTING

PROBLEM	INDICATOR	CAUSE	SOLUTION
<b>Valve does not flush</b>	The red LED indicator in the sensor flashes continuously when the user steps within the sensor's range.	Low battery.	Replace battery.
	The red LED indicator in the sensor does not flash (once) when the user steps within the sensor's range.	Inappropriate sensor range.	Increase or decrease the sensor range.
		Battery is completely used up.	Replace battery.
		The sensor is picking up reflections from a mirror or another object.	Eliminate cause of reflections.
	The red LED indicator in the sensor flashes (once) when the user steps within the sensor's range.	Connectors between the electronic unit and the solenoid valve are disconnected.	Connect the connectors of the electronic unit to the solenoid valve.
		Debris or dirt in the solenoid valve clog up the bleeding hole.	Replace or clean the solenoid valve. Unscrew the solenoid, pull out the plunger and the spring from the solenoid and clean them. When placing the plunger and spring back, please make sure the spring is in vertical position.
		The water supply pressure is higher than 8 bars or pressure peaks over 8 bars in the water supply causes pressure to be trapped in the flush valve.	Reduce the water supply
<b>Continuous Flow</b>	The red LED indicator in the sensor flashes (once) when the user steps within the sensor's range.	Debris or dirt in the Flush Valve clog up the piston or the orifice. The piston doesn't close.	Open the piston cover and clean the piston, the orifice and body internally.
		Debris or dirt in the solenoid valve. The solenoid valve doesn't close.	Replace or clean the solenoid valve. Unscrew the solenoid, pull out the plunger and the spring from the solenoid and clean them. When placing the plunger and spring back, please make sure the spring is in vertical position.



# TROUBLE – SHOOTING

## PROBLEM

## CAUSE

## SOLUTION

**Low Discharge**

The self cleaning needle came out of the piston orifice or is displaced. The orifice delivers more water than usual pushing down the piston, causing the piston to close faster than normal.

Replace the piston.

The U-seal is torn or damaged

Replace the U-seal.

Flow time setting is too short.

Increase the flow time.

**High Discharge**

Debris or dirt in the Flush Valve clog up the piston. Friction in the piston movement causes the piston to close slower than normal.

Open the piston cover and clean the piston and body internally.

Dirt in the piston orifice prevents enough water from going through the orifice. The reduced flow causes the piston to close slower than normal.

Open the piston cover and clean the piston and the orifice.

Flow time setting is too long.

Reduce the flow time setting.

**Dripping**

Debris or dirt in the piston seat.

Clean the piston seat.

Piston seal is torn or damaged.

Replace piston seal.

Debris or dirt in the solenoid valve orifice. The solenoid valve doesn't close properly.

Replace or clean the solenoid valve.  
Unscrew the solenoid, pull out the plunger and the spring from the solenoid and clean them. When placing the plunger and spring back, please make sure the spring is in vertical position.

The plunger seal is torn or damaged.