Installation Instructions

2009.04



Warranty Registration and Inquiry

For product warranty registration, TOTO U.S.A. Inc. recommends online Warranty Registration. Please visit our web site http://www.totousa.com. If you have questions regarding warranty policy or coverage, please contact TOTO U.S.A. Inc., Customer Service Department, 1155 Southern Road, Morrow, GA 30260 (888) 295-8134 or (678) 466-1300 when calling from outside of U.S.A.

For the best results, be sure to read the following installation instructions and use the product only as described in this manual.

Safety Precautions

Follow all safety precautions and warnings when installing the TOTO® SOAP DISPENSER.

Before installig this product, be sure to read the "Safety Instructions" section of the manual.

- The following symbols are used to indicate important safety instructions for the safe and proper use of the product.
- Each symbol is defined as follows:

Indication	Definition	$\overline{\frown}$	This symbol indi-	This symbol means
Marning	When this symbol appears, precaution should be tak- en to ensure proper and safe use of the product, Ig-	\bigcirc	cates a prohibited use of the product.	do not disassem- ble.
A Caution	noring this precaution could result in injury or death. When this symbol appears, precaution should be taken to en- sure proper and safe use of the product. Ignoring this precau- tion could result in injury or damage to personal property.		This symbol means do not use this product in wet places, such as a bathing area or shower stall.	This symbol means "Always follow this precaution"

🛆 Warning				
	Do not use a loose or faulty electrical outlet or plug. Doing so may cause fire or electrical shock.			
Prohibited	Do not use direct current or power source with improper voltage. Doing so may cause fire.			
Do not disassemble	This product should only be serviced, disassembled or modified by a factory technician to prevent possible malfunction or electric shock.			
Prohibited	Please do not install in a bathing area or humid place. Doing so could cause fire or electric shock.			
Always perform	Be sure to plug the AC adapter all the way into the wall socket to avoid possible fire or electrical shock. TOTO recommends that the AC adapter be connected to a GFCI-protected outlet.			

<u> Caution</u>



Do not apply force or sudden impact to this product, as this may cause malfunction or leakage.







	<standard></standard>					
Item		TES1ADC-05	TES2ADC-05	TES3ADC-05		
Configuration						
	Number of Dispenser	1	2	3		
Details	Base Unit	TES121M V100	TES122M V100	TES123M V100		
	Tube and Cords		16.4' (5m)	16.4' (5m)		
	Sub-Tank	N/A				
	Power Source	AC Apapte	ut : 24VDC			
su	Wattage	10W	20W	30W		
atio	Detection Range	4"(110mm) (using #300 white paper)*Note that the detection range may vary due to learning methods.				
fice	Ambient Temperature for Use	34~104°F(1~40°C)				
Specifications	Power Cord Length	71"(1.8m)				
Sp	Dispensed Amount of Soap		2mL (at factory setting)			
	Tank Capacity	Approximately 1 gallon (4L) (Usable Capacity)				

	<special> with subtank and 39.4' (12m) tube and cords</special>					
	Item	TES3ADC-12	TES4ADC-12	TES5ADC-12	TES6ADC-12	
Configuration						
	Number of Dispenser	3	4	5	6	
Details	Base Unit	ТЕS123М V100	TES122M V100 (2sets)	TES122M V100 TES123M V100	TES123M V100 (2sets)	
	Tube and Cords	39.4' (12m) TN80-2 V100(3sets)	39.4' (12m) TN80-2 V100(4sets)	39.4' (12m) TN80-2 V100(5sets)	39.4' (12m)	
	Sub-Tank	1set TN80 V100				
	Power Source	AC Apapter Input : 120VAC60Hz Output : 24VDC				
suo	Wattage	30W	40W(20W+20W)	50W(20W+30W)	60W(30W+30W)	
Specifications	Detection Range	4"(110mm) (using #300 white paper)*Note that the detection range may vary due to learning methods.				
ific	Ambient Temperature for Use	34~104ºF(1~40°C)				
)ec	Power Cord Length	71"(1.8m)				
ц С	Dispensed Amount of Soap	2mL (at factory setting)				
	Tank Capacity	6.8 gallons (26L) (usable capacity) Approximately 8 gallons (30L) (Usable Capacity)				





Before Installing Your TOTO Soap Dispenser

1. Wiring

The voltage is AC 120V (60Hz). The energy consumption is as follows. Wiring should be installed in compliance with the following energy consumption levels.

Single spout configuration : TES1ADC-05	10W	
Two spout configuration : TES2ADC-05	20W	
Three spout configuration : TES3ADC-05/TES3ADC-12	30W	
Four spout configuration : TES4ADC-12	40W (20W+20W)	
Five spout configuration : TES5ADC-12	50W (20W+30W)	
Six spout configuration : TES6ADC-12	60W (30W+30W)	

2. Installation of the soap tank

- Install the soap tank and sub-tank (Special) on a flat surface.
- When connecting the tank or installing the sub-tank (Special), make sure that both tanks are installed on a flat and level surface. Be sure to install the soap tubes in a straight line.

3. Other

- This product cannot be used with stainless steal or stainless steal plated lavatories, as this may cause malfunction of the product.
- The dispenser installation holes for this product are 1"~ 1-1/8" (25 ~ 28 mm) in diameter.
- Be especially careful not to scratch the sensor surface.



Parts Identification

Please verify that the following parts are included.

*Some models may have different component as illustrated below.





Installation of the Dispenser and Tank



(2) Leave 3-1/8" (80 mm) of space from the inside edge of the sink to the spout installationholes to ensure that any residual soap drips from the dispenser spout into the sink bowl.





Diagram of Assembled Product

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*Some models may have different components as illustrated below.





7 Installation Procedure

















6 Anchor the tank

Anchor the tank with the supplied brackets.

(1) Insert the four bolts into the bottom of the tank hand tight.

These bolts will need to be adjusted to level the tank.

(2) Install the two screws after the tank has been leveled.

NOTE: If installing on a concrete floor, be sure to use inserts before installing the two screws.







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1. Confirming that the dispenser functions properly after installation

After installation is complete, confirm that the unit is working properly using the following method.

(1) Place your hands under the dispenser spout and hold them in place until soap is discharged.

Caution

 The dispenser pump will operate intermittently. After the third discharge, the dispenser will operate continuously for a maximum of 4 minutes.



- Continuous discharge only takes place within 15 minutes following power ON.
- (2) Make sure that there is no soap leaking from the tube and hose connections.

2. When the dispenser is not in use for long periods of time

• If the dispenser is not in use for an extended period of time, the liquid soap in the tube may dry up and clog the tube. In such a case, fill the dispenser tank with water and perform a trial operation. Once you have confirmed that the dispenser is working properly, replace the water in the tank with liquid soap.

3. Confirming proper operation

Starting and stopping the soap discharge.

- Hold your hands under the dispenser spout to automatically discharge soap foam.
- Remove your hands from under the spout and the dispenser will stop pumping soap.
- Hold your hands under the spout continuously and an intermittent discharge of soap is pumped (a maximum of 3 discharges over a two-second period).

Phenomenon	What to look for	What to do	Reference page
	Is the AC adapter inserted in the electrical outlet?	The AC adapter is inserted.	7
	Does the liquid soap tank contain liquid soap?	Fill the tank with liquid soap.	8
No soap comes out.	Is the soap tube inserted securely?	Insert tube.	4,5
comes out.	Is the white connector inserted securely?	Insert the white connector.	4,5
	Is there a kink in the tube?	Remove the knik.	
	Is the green connector for the air pump inserted securely?	Insert the green connector.	4 , 5
It doesn't dispense	Are you using a high-viscosity liquid soap?	Please use the recomme- nded liquid soap.	2
mousse.	Is the blue air tube pushed all the way into place?	Insert the blue air tube all the way into place	Instruction manual
Hardly any soap comes out.	Hasn't the connected hose of the sub tank and the water soap tank bent?	A bent hose is corrected.	

4. Trouble shoting



9 Installation of the Sub-Tank (Special)

Fill the sub-tank with liquid soap from the sub-tank supply opening.







(5) Attach the elbow to the front end of the air deflation hose and attach it to the wall with the hose tie and wood screw.

*Do not block the elbow. It is the air bleed point for the system. The soap will not flow properly if the elbow is blocked.

- Be sure to install the elbow between the top of the sub-tank and the counter. When the elbow is installed lower than the sub tank the soap overflows.
- Be sure that the hose tie is in position with the air deflation hose and the elbow.



 Caution

 • The total length of the connection hose is 16.4' (5 m).

 To ensure sufficient supply performance, do not use a hose that is longer than 16.4' (5 m).

 Please install the hose horizontally.

 (It is OK to place on the floor.)

 • Install the hose in a straight line.

 A bent hose will prevent the smooth flow of liquid soap.

- Position the tanks on a level surface at even height. Installing the tanks at different levels may result in the following malfunctions:
 - Soap leakage from the tank that is at a lower level.
 - Improper detection of the liquid soap level in the tank at the higher level.







Be sure to provide the customer with the Owner's Manual, Instruction Label, and Allen wrenches that come with the TOTO Soap Dispenser.

