- Please read through this instruction manual before starting to use this time switch to be familiar with the proper operation.
- After you read this, please keep it so as to refer it at any time.

Precautions for safety

WARNING

Do not use this product in applications that may adversely affect people's lives or society in case it malfunctions, e.g. medical equipment or a large-scale facility,

Do not disassemble or modify this time switch. An electric shock, fire or other failure may result.

Do not touch the terminal while supplying power. You may be receive an electrical shock

Be sure to allow for an adequate safety margin for rating and performance. Integrate appropriate safety measures, e.g. a redundant circuit, when used for devices such as heaters, refrigerators, etc.

in which damage may result if the switch goes out of order

Do not pour water or oil on the time switch. An electric shock, fire or other failure may result.

CAUTION



Mounting hole

for metal parts

Power terminal

Mounting

screw

If you see rust or other contamination on the terminal, replace the terminal as soon as possible. Improper contact may lead to overheating or a fire.

1Description of Mode switch

Mode	Switch position	LCD	Content
Run	Run Program Clock	Frogram OFF 8: 15.	Current time display
Program	Run L Program- Clock	No.({)	Setting timer on-off time
Clock	Run L Program – Clock	8: 15.	Current time adjustment

Reset

When pressed Reset button, all the contents to be set are cancelled.

After indicated all the displays lighted for 4 seconds, "00 00"

If pressed other button than Reset, clock starts from "0:00".



2Clock setting

If the timer displays 23:30 Thursday, it must be changed to 8:15 Sunday. Detailed operation is as follows:

(1) Set the Mode switch to "Clock."

23:30.

(2) Press Hour, Min and Day button to set the time and the day of the week.

8: 15.

- (3) Press Enter button to set 0 sec.
- (4)Set the operating mode switch to "Run" position to complete the clock adjustment.

NOTE

· 24-hour type has no Day button.

③Program setting

To set the program of "7:30 ON, ~16:30 OFF", "Operation of Monday to Friday".

(1)Set the Mode switch to Program. Setting screen for "TURN-ON TIME"

(2) Select "TURN-ON TIME" with Hour, Min and Day and set with Enter button. The setting screen changes into "TURN-OFF TIME".



(3)Select "TURN-OFF TIME" with Hour. Min and Day and set with Enter button. The setting screen changes into "TURN-ON TIME".



(4)Repeat (2) and (3) when setting continuously.



(5) Set the program continuously based on (2) to (4),

· 24-hour type has no Day button.

4 Checking, changing, and canceling setting

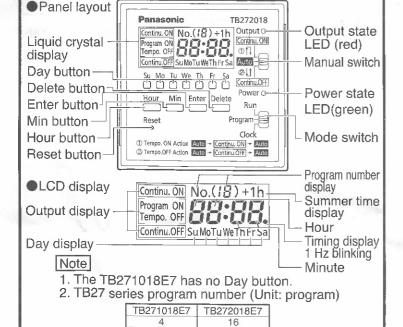
Checking: Set the operating mode switch to "Program." The screen displays the No. 1 program setting. The screen display is as indicated in the diagram at right. If the current program setting is not to be changed, press the Enter button to display the next program setting. Every time the Enter button is pressed, the serial number changes in order of 1 on-2 off-3 on-4 off...... 15 on-16 off.



Changing: Change the current program setting based on the timing setting.

Canceling; press the Delete button. The screen display is as indicated in the diagram at right. Press Enter. The current program setting is cancelled. At the same time, the screen displays the next program setting.

Explanation of parts



Protective

Output term

Fixture

cover

	- %	Position, operation	LCD display	Output function description
		Continu. ON) O [] Auto O [] Continu. OFF	Continu. ON	Continuous ON regardless of the program. Program Output Set the switch to "Continu. on."
	Automatic	Continu. ON O 1 Auto O 1 Continu. OFF	Program OFF 8. 15.	Output as assigned by the program. Program Output
	Continuous OFF	Continu. ON O [] Auto Outour Continu. OFF	Continu.OFF	Continuous OFF regardless of the program. Program Output Set the switch to "Continu. off."
activation	Temporary ON	Continu.ON Continu.ON Ofl Auto Otl Continu.OF Continu.OF Continu.OF Continu.OF Continu.OF Continu.OFF	Tempo. ON 23:30.	Temporary ON is held until the next TURN-ON TIME. Program Output Set the switch to "Tempo. on Action."
Temporary activation	Temporary OFF	Continu. ON Continu. ON Of I Auto Out I Continu. ON Of I Auto Out I Continu. OFF Continu. OFF Continu. OFF	Tempo. OFF	Temporary OFF is held until the next TURN-OFF TIME. Program Output Set the switch to "Tempo off Action."

Set the switch to "Tempo. off Action."

Manual switch operation

Specifications						
Type			TB271018E7	TB272018E7		
Driving method			Electronic			
Voltage/frequency of operational power supply			220 V AC / 50-60 Hz			
Permissible operating voltage			190 V to 240 V AC			
Power failure backup time			5-year built-in lithium battery			
Time precision			±15 s/month at 25 °C			
Cycle			24 hours	1 week		
Power consumption		er consumption	1 W			
	Number of Circuit / circuit composition		1 circuit, Separate circuit (no voltage contact output)			
	Contact composition		Single pole double through ()			
put	Automatic switch on/off		Additional turn on/automatic/off switch			
Output	rating	Resistance	16 A (240 V AC)			
	Contact	Reactance (cosø=0.6)	9 A (240 V AC)			
	Contact switch durability		20,000 times			
Time: activation setting	Minimum unit		1 min			
	Minimum interval		1 min			
	Number of times for off		4	16		
Suitable electric wire		able electric wire	Fixed wiring conductors: 1.2 to 1.6 mm Flexible cord conductors: 1.25 to 2 mm ²			
Operating environment temperature/humidity			-10 °C to +50 °C, 85 % or less			
		Weight	176 g	178 g		

Panasonic Corporation 1048, Kadoma, Osaka, 571-8686, Japan

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