



USER MANUAL (application instruction)

- MODEL No.: TEA-1E20 • Storage Component : Super capacitor

1. PERFORMANCE AND CHARACTERISTICS

- 1.1. This is a solar energy powered, new generation of signal and decoration light. It transforms solar energy into electric energy, which lights the built-in ultra-bright LED. High quality and high capacity super capacitor batteries are used to store energy at the day time, and lights the LED at night by auto-controller.
- 1.2. The product is self-powered, economical and environmental protect, working under the safe voltage.
- 1.3 Cordless, easy to install; fully sealed, suitable for outdoor and road traffic, need not maintenance.
- 1.4. Automatically controlled: turn on and off according to the ambient light intensity. (It also can be hang control or by special signal.)
- 1.5. The storage component is super capacitor, no threshold voltage, good low light intensity performance. The product can be charged in cloudy, rainy, or places opposite to the sun without problem. The energy stored in the daytime is enough for the consumption of that night. The product can be used widely.
- 1.6. Long life span, average life is 8 years, or above.
- 1.7. Good caution effect: more than 1000 meters visible distance at night under normal weather condition.

2. TECHNICAL DATA

Lighting Mode

1	Flash (front side and back side flash by turns)	① f=60±5 T/min, ② f=250±10 T/min ③ specified by buyer
3	Constant	

Technical Data

Storage component			Solar cell			continuously working hours after fully charged (h)					Average life (years)	Housing material	Part number
			Power (mWp)	current (mA)	vol (V)	1	2	3	4	5			
Comp.	Cap	Vol											
Super capacitor	240F	2.3V	450	150	3.0	60	--	--	--	--	8	PC/ABS	TEA-1E20-C

Other Data

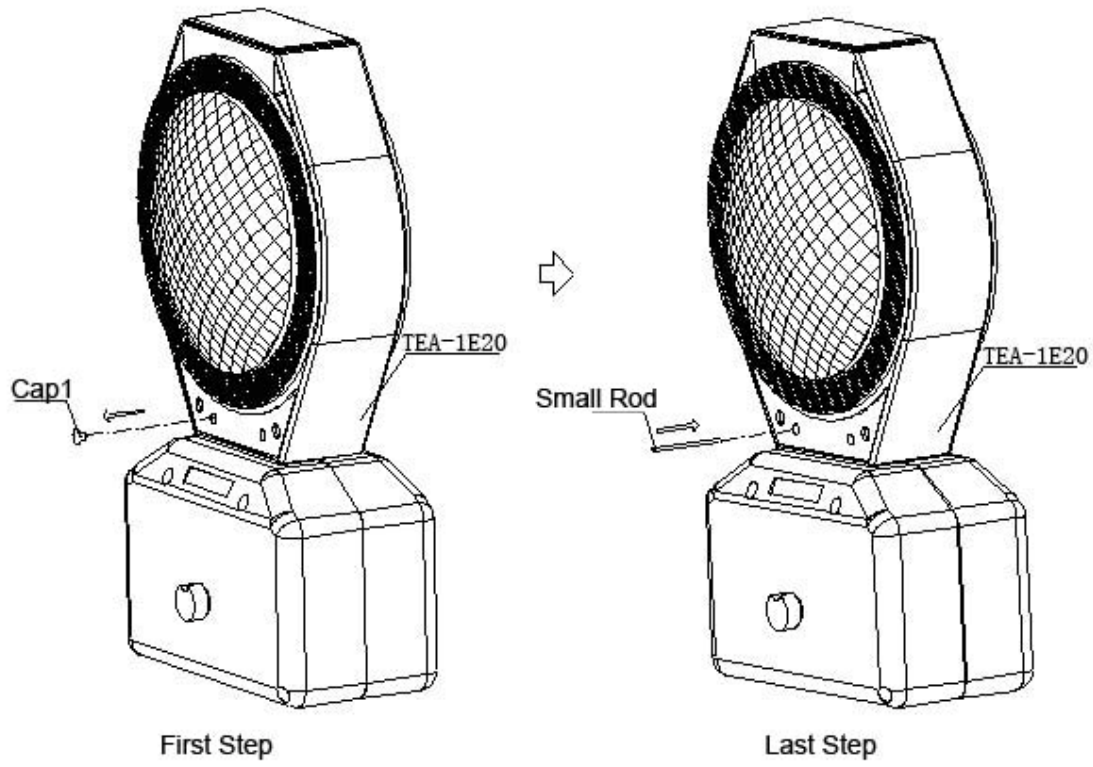
Light Source			
Name	Ultra-bright LED	Turn On/Off	Automatically turn on at:50±20 lx,
Optional color	R, Y		Automatically turn off at:350±50 lx
Highest luminous intensity	≥5000mcd	Protection Level	IP66
Qty	10pcs (Ø5mm)	Ambient temperature	-40℃ ~ 70℃ (-40F ~ 158F)
		Outline dimension	L x W x H= 186mm x 91mm x 144mm
		Weight	1200g

3. APPLICATION:

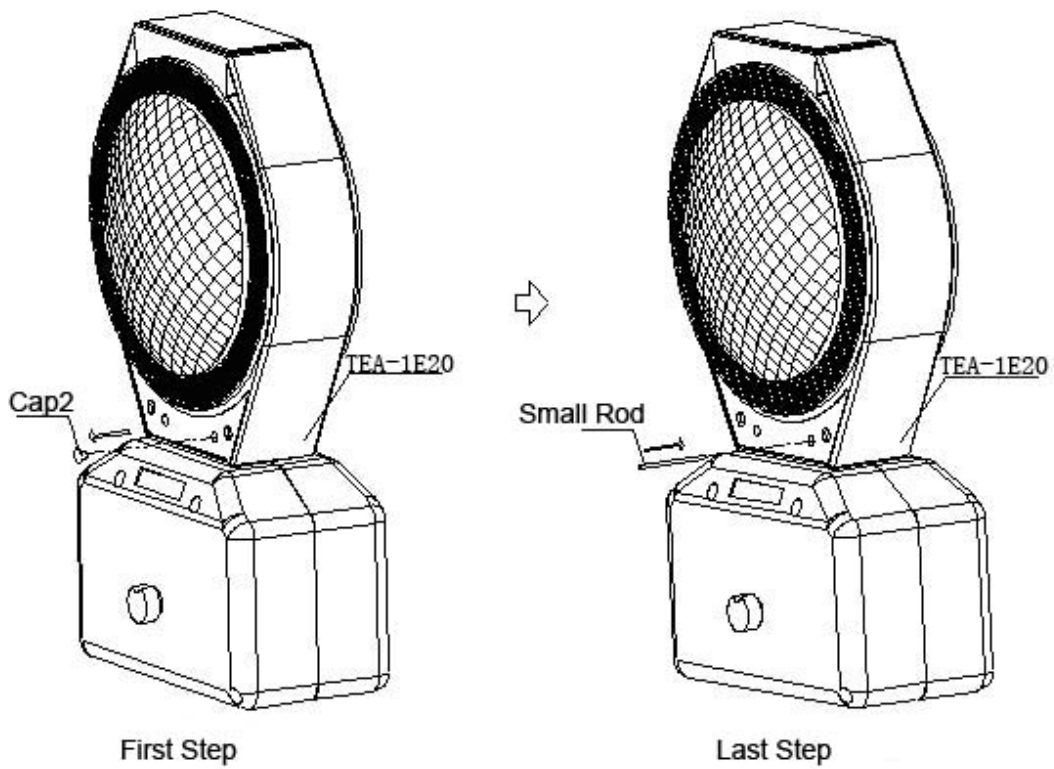
- 3.1. The storage component of the product is super capacitor with high charging and discharging performance, which makes the product has a wide range of applications, especially suitable for the areas with short direct sunlight time or the outdoor areas opposite to the sun.
- 3.2. Various lighting modes and colors are available to meet customers' different demands.(i.e. constant or flash frequency = $60\pm 5T/min$ is suitable for common area such as straight road, while high frequency($=250\pm 10T/min$) flash mode is more suitable for crooked road etc.)
- 3.3. The product can be used as caution for construction and maintenance of traffic project and temporary stop of vehicles, caution & direction of construction etc.

4. INSTALLATION INSTRUCTIONS

- 4.1. The product is for outdoor applications, when using, please make sure no obstacle to shelter the product in short distance and the solar panel should face up or face to the sun as possible as it can, otherwise the photovoltaic transform efficiency will be affected in a certain range.
- 4.2 For movable application, especially only use at night, please make sure to put the product in the sun and the solar panel face to the sun for charging. Meanwhile, Please make sure to recharge the product after using. Keep the product in fully charged condition to ensure it can work during continuous cloudy or rainy days.
- 4.4. There is a inside switch(please see pic. 1). When using, please take off the left cap and push with a small rod. When switch goes inside, the product turns to auto light control mode. When push again, the switch pop-up, it turns off (for transportation).
- 4.5. There is a lighting mode switch (please see pic 2). Take off the right cap and push with a small rod to change the lighting mode. Switch inside for flash, pop-up for constant.



Pic 1



Pic 2