



SOP – INSSOP041 – FAT 320W Panel and 75w Light

Rev 1 (23/11/2023) – Owner: Chief Operating Officer



ROAD SAFETY RENTAL

1. Purpose

The purpose of this SOP is to outline the safe handling method for testing the 320W Panel and 75w Light.

2. Scope

This SOP relates to all Saferoads 320W Panel and 75w Light.

3. Safety



The following safety guidelines must be adhered to:

- a) Work performed is always in a team of two – Manual Handling

4. Personal Protective Equipment (PPE)

The following is mandatory PPE.



Safety Boots (steel capped) with rubber soles.



Eye protection is compulsory



Hi-Viz must be worn when installing product



Hi-Viz Protective Clothing is to be worn




5. Equipment Required

The following equipment is required to safely carried out this process:

- a) Stable Trestles
- b) Phillips Head Screw Driver

SECTION ONE – WORKSHOP ASSEMBLY OPERATIONS

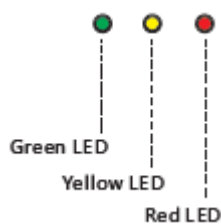
6. Assembly – Stub and Pole

Step 1 – Unpack solar panel	Step 2 – Unpack light	Step 3 – Remove controller cover
		
Using two men, the 320W solar panel is removed from the packaging, inspected for any visible damage and inverted and placed secured upon trestles	The 75W light is removed, inspected for any visible damage and placed upside down. The control box door is opened .	On the centre section of the solar panel, the control box cover is removed.

Step 4 – Controller status



On the controller there is a series of LED lights.



Step 5 – LED display information

LED	Status	Function
Green LED	On	Solar panel is correctly connected, but not charged
	Fast flash(0.1/0.1s)	Charging
	Flash(0.5s/0.5s)	Equal or Boost Charging
	Slow flash(0.5/2s)	Float Charging
Yellow LED	Off	Over voltage protection
	On	Battery is normal
	Slow flash(0.5/2s)	Battery voltage is low
	Fast flash(0.1/0.1s)	Low voltage protection
Red LED	Off	Work normal
	On	The output power is 0.
	Super slow(0.2/5s)	Open circuit protection
	Flash(0.5s/0.5s)	Over temperature
	Fast flash(0.1/0.1s)	Short circuit or Over current protection *

Step 6 – Connect the light



Connect the solar panel to the 75W Light

Step 7 – Solar panel



Once connected – turn solar panel over

Step 8 – Replicate night



Place two sheet of cardboard over the solar panel surface.

Step 9 – Confirm light output



Confirm the light comes on – leave for a period of 30 minutes.

Place solar panel outside for any residual charging



SOP – INSSOP041 – FAT 320W Panel and 75w Light

Rev 1 (23/11/2023) – Owner: Chief Operating Officer



ROAD SAFETY RENTAL

SOP REVISION UPDATES

SOP Amendment Level

Rev #	Date	Comment
1	23/11/2023	a. PPE Icons updated / format updated – No revision change
1	05/12/2022	b. New SOP



SOP – INSSOP041 – FAT 320W Panel and 75w Light

Rev 1 (23/11/2023) – Owner: Chief Operating Officer



ROAD SAFETY RENTAL

FACTORY ACCEPTANCE TESTING

Location:	
Unit:	320W Solar Panel and 75W Light
Client:	
Test Batch Quantity:	
Date:	

Solar Panel and Light #	Comments	Result (Pass / Fail)