Regarding: **10M84P01**

Schematic Pages for Top Card box with Emergency Lighting.

This 4 pp packet contains these four documents

Pg 2 – IMPORTANT SAFEGUARDS

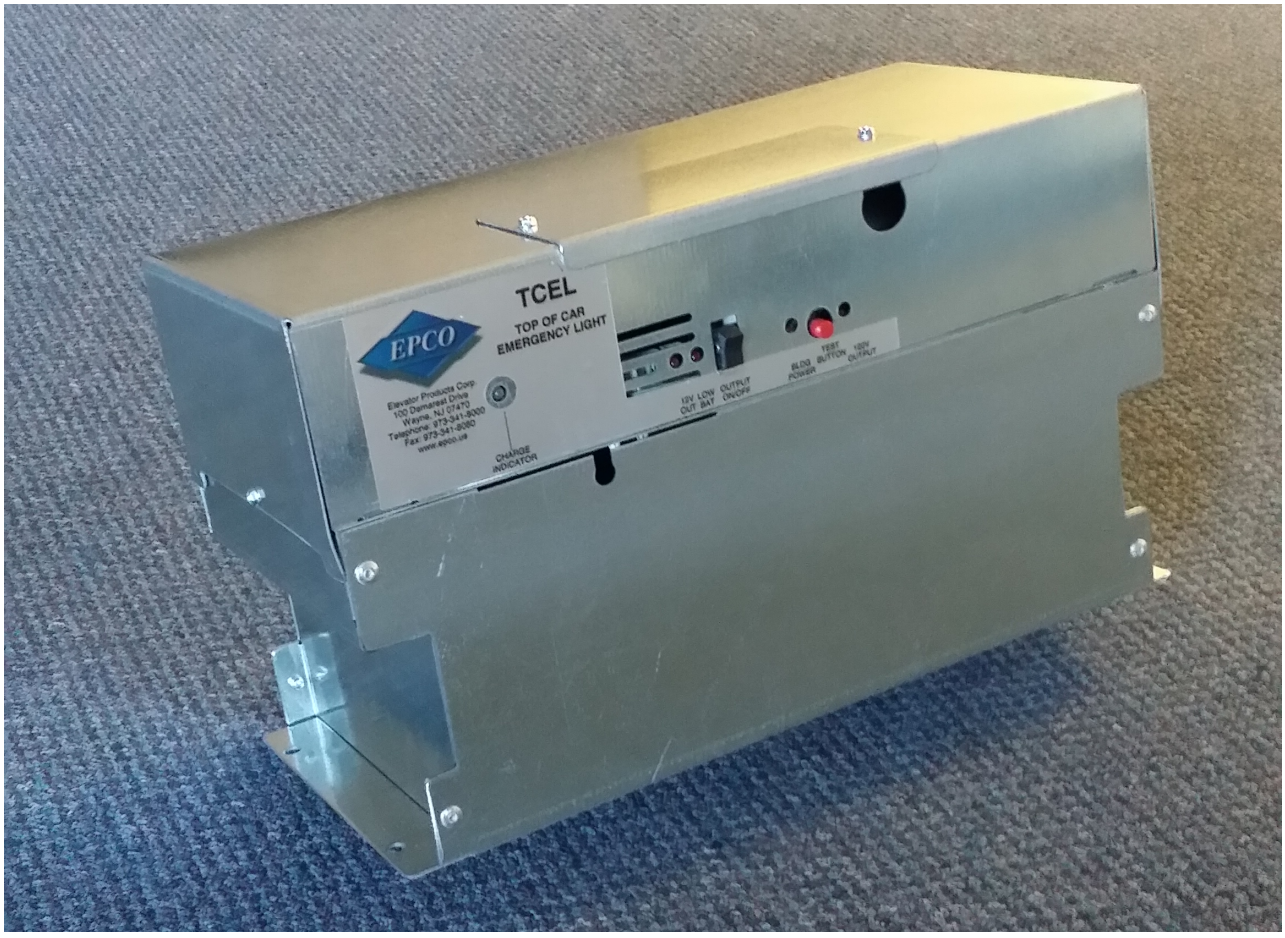
Pg 3 – Installation Instructions

Pg 4 – LED Status Lights

Pg 5 - TCEL Wiring

To whom this may concern:

Please take the attached pages and insert them into the schematic binder delivered with the controller.



IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
2. **Do not use outdoors.**
3. **Do not mount near gas or electric heaters.**
4. **Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.**
5. **Equipment should be mounted in locations and heights where it will not readily be subjected to tampering by unauthorized personnel.**
6. **The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.**
7. **Do not use this equipment for other than intended use.**
8. **Turn off power to all elevator circuits, using proper Lockout-Tagout procedures.**
9. **Note that more than one live circuit exists in the TCEL and the inverter holds a charge even when the output of the unit is off.**
10. **Be sure the output switch on the front of the TCEL is turned off before starting.**
11. **Wiring must be contained within appropriate metal conduit and attached to the TCEL unit via the appropriate knockouts.**

SAVE THESE INSTRUCTIONS

Installation Instructions

TOOLS:

-Hex Bolt Screwdriver with a 6/32 tip
-Slotted Screwdriver
-Wire Stripper

PARTS:

Open the small lid on the top of the TCEL. Find and remove the small bag of Phoenix connectors and spare fuse.

1- 6 position Phoenix connector
1- 2 position Phoenix connector
1- 3 position Phoenix connector
1- 4 position Phoenix connector
1- 10A automotive fuse

1. Connect elevator lighting to the AC output connector P7. The ground in the TCEL is connected directly to the ground tab located next to the inverter PCB inside the TCEL using the appropriate ring terminal and 10-32 ground screw provided.

2. (Optional) Connect the alarm bell and alarm pushbutton to connector P1 following the schematic provided.
    a. Alarm PB: N/O contact to P1-1 and P1-2
    b. 12VDC Bell: +12VDC Bell to P1-3, return to P1-4
    c. 12VDC Bell: +6VDC Bell to P1-5, return to P1-6

3. (Optional) If an external test switch is used within the elevator cab, wire the normally closed switch to P8. If elevator cab test switch is not present, be sure to jump P8-1 and P8-2.

4. Remove the two 6-32 self tapping screws holding the top portion of the inverter to the battery pack underneath. Screws are located on the sides of the inverter.

5. Plug in battery, using caution to ensure proper polarity. +24VDC is P6-1. The LOW BATTERY LED indicator should be lit.

6. Secure the inverter back down to the battery compartment with the 6-32 self tapping screws.

7. Connect building power to AC input connector P10.
    a. P10-1 is HOT
    b. P10-3 is NEUTRAL
    c. GROUND is connected to the TCEL box to the provided ground tab located next to the PCB using the appropriate ring terminal and 10-32 ground screw provided.

8. Turn on the building power going to the TCEL. The charging LED and building power LED should be lit. If batteries are not fully charged, the charging LED will be RED. If the batteries are charged the LED will be GREEN.

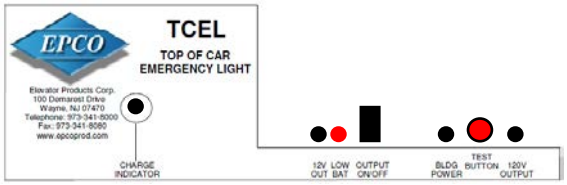
9. Turn the OUTPUT ON/OFF red rocker switch located on the front of the unit to the ON position. The green charging LED, 12VDC output LED, building power LED and 120 OUT LED should all be lit. Elevator lighting should come on as well.

10. Turn the OUTPUT ON/OFF rocker to the OFF position and allow the batteries to fully charge for 24 hours.

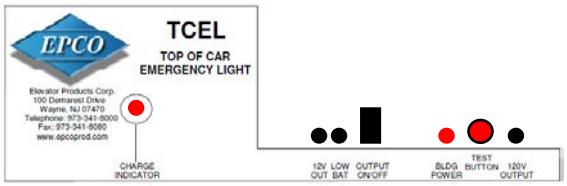
11. Once charged, the OUTPUT ON/OFF rocker switch can be turned ON and normal operation can resume.

12. Press and hold the TEST SWITCH located on the front of the TCEL unit and the unit should go into emergency power mode. Elevator cab lights should remain lit and the 12VDC and 120V OUTPUT LEDs should be the only two lit. Let go of the TEST SWITCH and the unit should return to normal operation and charging.

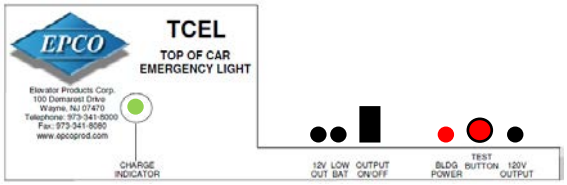
LED Status Lights



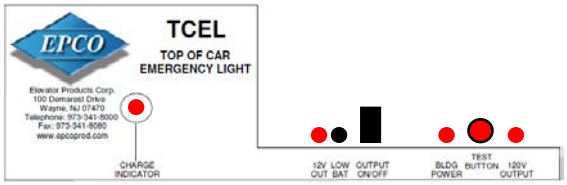
Initial Start up state



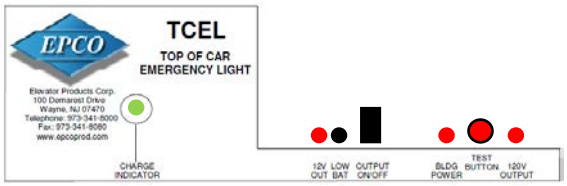
Building power applied, output OFF, batteries charging



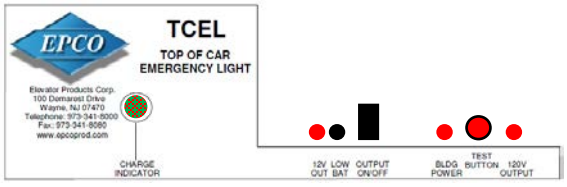
Building power applied, output OFF, batteries fully charged



Building power applied, output ON, batteries charging

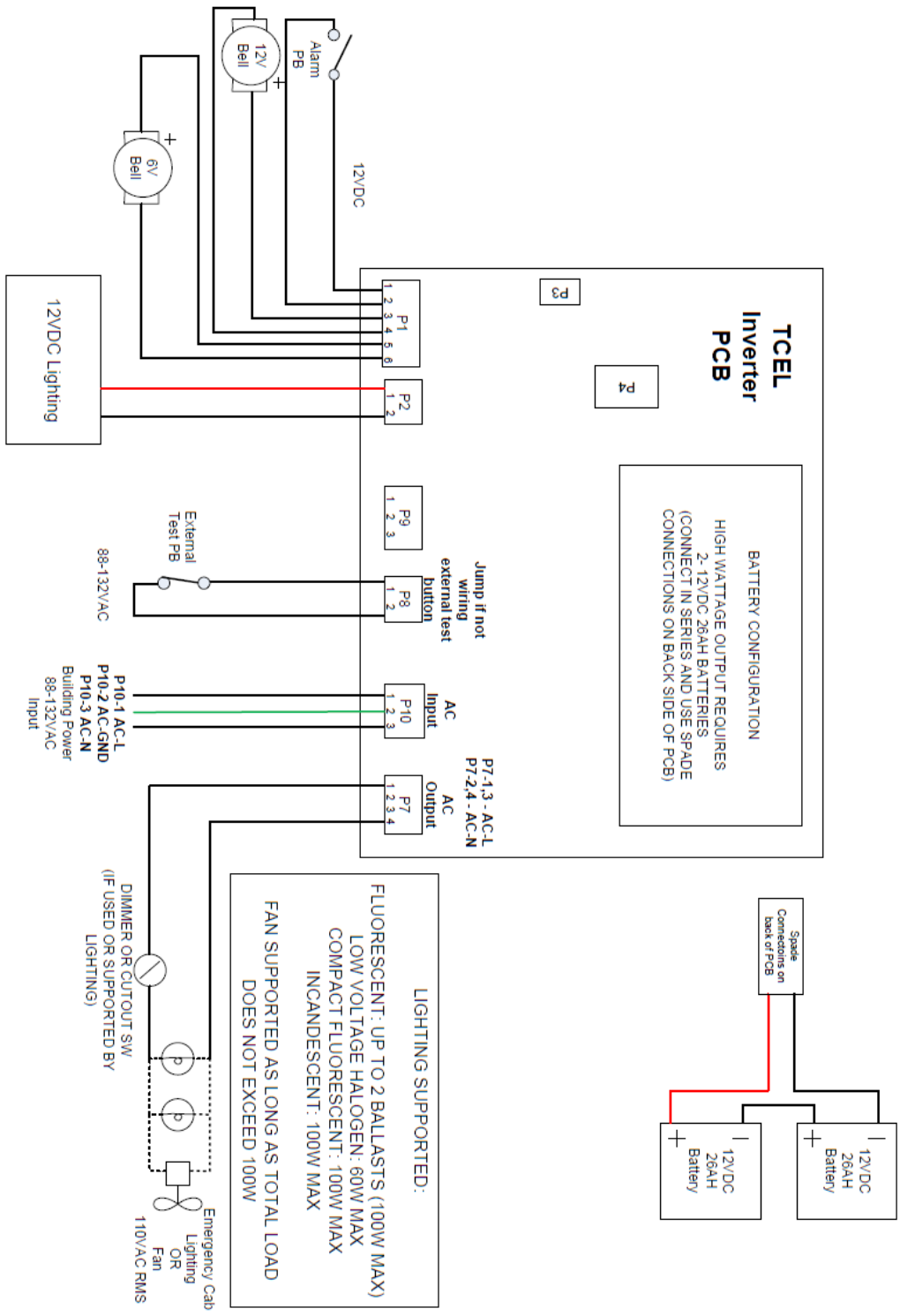


Building power applied, output ON, batteries fully charged



Flickering Charge Indicator between RED and GREEN (Please contact the factory)

TCEL Wiring



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