TCL LED SERIES 👊

Power Supply Replacement Instructions

Instructions for replacing a power supply on a TCL sign purchased before 05/01/2016.

What You Need: Phillips Head Screw Driver 1/4" Nut Driver

Always turn off

the power prior to installation.

1/4" Nut Driver Needle Nose Pliers New Power Supply

US



To avoid damage

do not overtighten connections



Be sure any metal

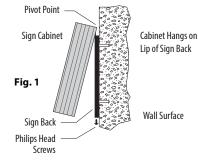
debris cleared out of the cabinet.

Voltage

This sign operates within an input range of 120VAC to 277VAC.

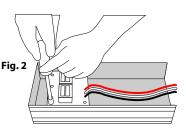
Opening Sign Cabinet

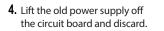
- **1.** Turn off power to sign.
- 2. Using a Phillips head screw driver, remove the two screws on the bottom of the cabinet. With the screws removed, open the sign by pulling the bottom of the sign forward hinging it on the top.



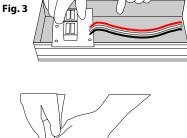
Removing Power Supply and Connections

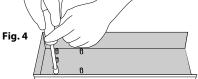
3. Disconnect the electrical connections noting the wire colors for later reconnections. Locate the five stand off studs holding the power supply to the circuit board. Using a 1/4" nut driver remove all ten 440 nuts. Keep the nuts to use when installing the new supply.





5. With the five standoffs exposed use the same nut driver to tighten the standoffs ensuring a good electrical connection.





Install New Power Supply

6. The new power supply will fit on the same standoffs as the old power supply. Attach using five off the old 440 nuts removed in step 3. The five extra nuts were used as locking nuts during shipping and are not neccessary.

> (Note: Tighten using hand tools only. A screw gun may use too much torque and may damage the supply).

- 7. The new power supply uses a wiring harness that plugs into the power supply. Making it simpler to wire without holding the weight of the sign. Remove the White wiring harness connector from the new power supply and make your power connections to it.
- 8. The White wire is Neutral. Depending on the number of messages your sign has you may have had a red and black wire or just a black wire on your old supply. The old supply wires match up to the new supply as such:

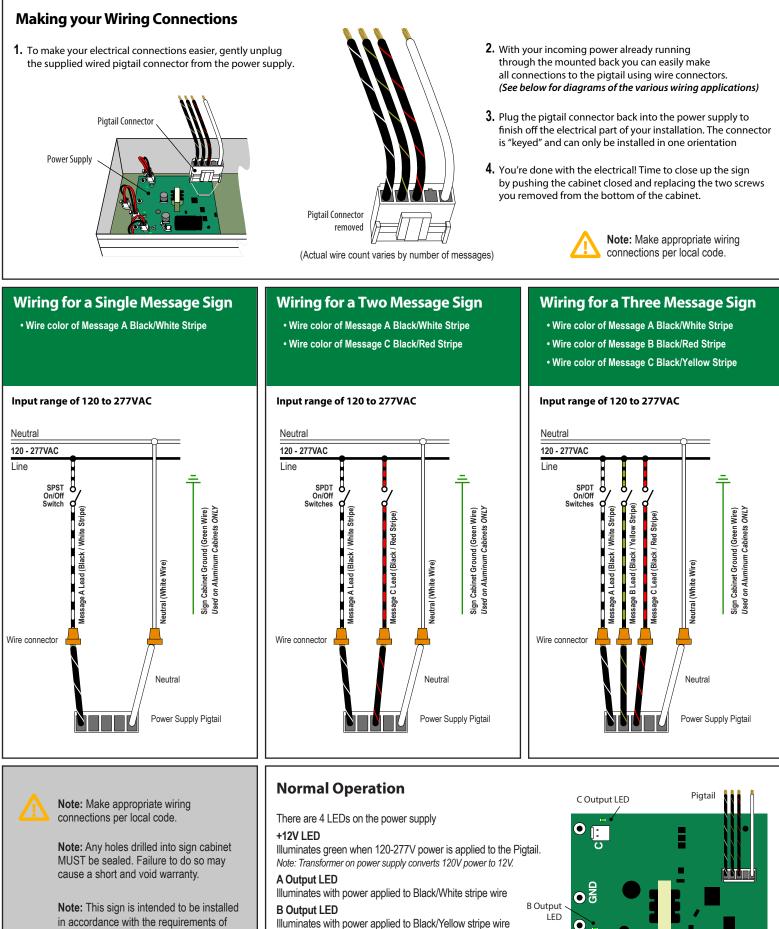
Fig. 5

Fig. 6 Pigtail Connector removed

(Actual wire count varies by number of messages)

Old Power Supply Wire Color	New Power Supply Wire Color	
White	White	
Black	Black with a White Stripe	See back for more
Red	Black with a Red Stripe	wiring information

- **9.** Replace the sign cabinet back on the top hinge point and plug the new wiring harness you removed in step 7, into the new power supply.
- **10.** Close the sign cabinet and replace the screws removed from the bottom in step 2.
- **11.** Yay you're done! Turn on the power to the sign.



Illuminates with power applied to Black/Yellow stripe wire

C Output LED

Article 600 of the National Electric Code

and/or other applicable local codes. This

includes proper grounding and bonding

of the sign.

Illuminates with power applied to Black/Red stripe wire

A Output LED

+12V

0 LED