Description of Normal Operation for the Signal’s Internal Power Supply
Diagnostic LEDs are included on the internal power supply to aid in verifying that input power is present and is being transferred to the sign face through the output connectors.

+12V LED
This LED illuminates Green when 120-277VAC power is applied to the internal power supply’s input power pigtail. 
*Note: The transformer on the power supply converts 120-277VAC power to +12V.*

A Output LED
Illuminates with power applied to Black/White stripe wire on the input power pigtail

C Output LED
Illuminates with power applied to Black/Red stripe wire on the input power pigtail

B Output LED (Used for third message ONLY)
Illuminates with power applied to Black/Yellow stripe wire on the input power pigtail

Output Connectors
These connectors transfer power from the internal power supply to the sign face to illuminate the individual message(s).
Problem: There are some LEDs out
TCIL Series 120-277VAC

Please refer to the diagrams on page 1.

There are some LEDs out

< 10 LEDs Lit

YES

Can you measure the correct incoming voltage at the sign?

NO

CHECK SWITCHES AND WIRING

NO

Entire sign needs replaced

YES

Output voltage is > 10VDC?

YES

Contact sales with the serial number of the sign

NO

Supply is defective and needs replaced
Problem: A message is lit that shouldn’t be
TCIL Series 120-277VAC

A message is lit that should not be

Do the wires run parallel to other high power devices?

YES

Run wires in separate conduit

NO

Is there incoming voltage on that channel?

YES

Recheck all connections to switches or controlling system

NO

Replace power supply

Contact sales with the serial number of the sign

Please refer to the diagrams on page 1.
Problem: Display is flickering

TCIL Series 120-277VAC

Display is flickering

Is the +12V LED illuminated steady?

NO → Check switches and wiring

YES → Is the output connector secure?

YES → Supply is defective and needs replaced

NO → Re-attach connector

Please refer to the diagrams on page 1.
Entire display is out

1. Is the +12V LED illuminated? [NO]
2. Is the output LED for the affected message illuminated? [NO]
3. Are the input connectors and pigtail secure? [NO]
4. Re-attach connector

1. Is the input polarity correct? [NO]
2. Can you measure the correct incoming voltage at the sign? [NO]
3. Check switches and wiring

1. Is the output connector secure? [YES]
2. Supply is defective and needs replaced

1. Contact sales with the serial number of the sign