

# Trunk Line/Power Insert Resistance Checklist

WC 1.5 and greater

Length of Procedure: ~60 minutes

**NOTE:** this work should be performed by a competent person as defined by OSHA in Section 29 CFR 1926.32 (f).

## Contents

1. Procedural Information
2. Tools, Parts and Materials
3. Worksheets (Trunk Line and Power Insert)

## Phase of Project:

FHT (Functional Hardware Testing)

## Contractor Responsibility:

To be completed by Low-Voltage Contractor

## Tools and Materials Required:

1. Digital VOM
2. View Trunk TEE (Contact View Project Manager or View Field Service Engineer for this part #370-000001)



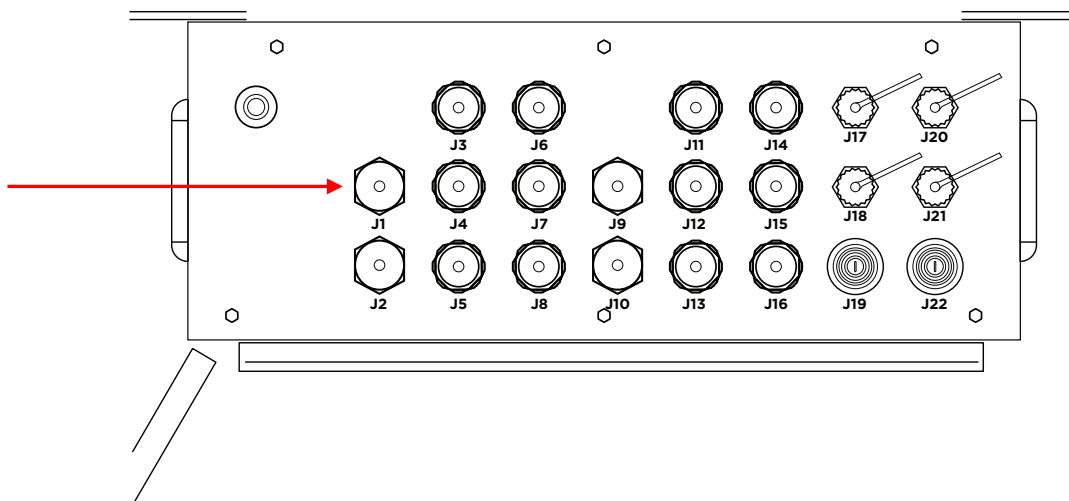
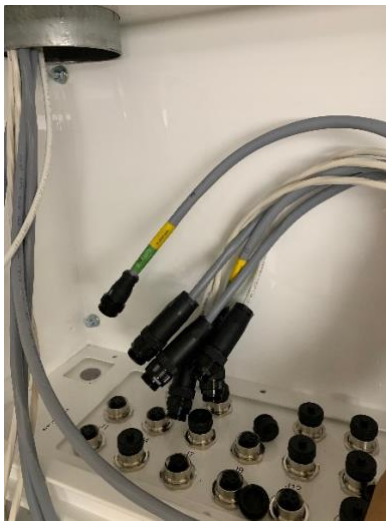
**Personal Protective Equipment:**  
Safety Glasses

# Procedure

**\*\*This is to be performed with window controllers connected to trunk line\*\***

## 1. Turn off Control Panel (CP).

Turn off Control Panel (CP). Disconnect all the Trunk Lines and all Power Insert (PI) cables from the top of the CP. Using your digital VOM, set to “DC Volts”, measure voltage between pin 2 - 3 (2=power, 3=common/ground) on the J1 bulkhead connector, the value should be 0.0 VDC, this will confirm that there is NO power to the CP.



2. Attach a blue trunk TEE to the first trunk line, set digital voltmeter to “Ohms ( $\Omega$ )”; check and document the following pin-to-pin resistances (see worksheet below), repeat for all other trunk lines.



3. Note any visible damage to cable or connections in section below for submission.

4. When testing power insert cable (white 14/4) touch VOM probes directly onto the male pins of the connector, check and document the following pin-to-pin resistances (see worksheet below). See table below for pin configuration, repeat for all other power insert cables.



5. If testing Power Insert cables at a different time, make sure power is still disconnected from CP according to Step #1.
6. Troubleshoot anything out of spec., make repairs as needed.
7. Once all readings are in spec: **Verify CP is off**, connect Trunk Line Cables to CP, and reconnect all Power Insert cables per the View interconnect drawings.
8. Note any visible damage to cable or connections in section below for submission.
9. Submit all completed forms with data to View PM or FSE attached to project.
10. Please contact View PM or View FSE with any questions.

# Trunk Line Resistance Check Worksheet

Objective: Check the following pin-to-pin resistances.

Date of Test: \_\_\_\_\_

Technician Performing Test: \_\_\_\_\_

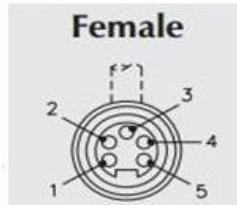
Technician Company Name: \_\_\_\_\_

Control Panel: \_\_\_\_\_

Value of Pins 2 & 3: \_\_\_\_\_

FROM	TO	TL 1	TL 2	TL 3	TL 4	CORRECT RESISTANCE
Pin 1	Pin 2					>1 kΩ
Pin 1	Pin 4					>1 kΩ
Pin 1	Pin 5					>1 kΩ
Pin 2	Pin 3					>1 kΩ
Pin 2	Pin 4					>1 kΩ
Pin 2	Pin 5					>1 kΩ
Pin 3	Pin 4					> 1 kΩ (see note 1)
Pin 3	Pin 5					> 1 kΩ (see note 1)
Pin 4	Pin 5					~ Ω120

\*Male end is opposite\*



KEY		
pin	color	function
1	bare	shield – drain wire
2	Red	+ Voltage
3	Black	"- Voltage" / P.S. Common or 'Ground'
4	White	CAN_H (high)
5	Blue	CAN_L (low)

**NOTE 1:** Class 1 CP (no protection modules) with only 1 trunk line may measure less than 1kΩ .

Damage Notes:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Power Insert Resistance Worksheet

Objective: Check the following pin-to-pin resistances.

Date of Test: \_\_\_\_\_



Technician Performing Test: \_\_\_\_\_

Technician Company Name: \_\_\_\_\_

Control Panel: \_\_\_\_\_

FROM	TO	PI ____.	PI ____.	PI ____.	PI ____.	PI ____.	PI ____.	PI ____.	PI ____.	RESISTANCE
Pin 1	Pin 3									>1 kΩ
Pin 1	Pin 4									>1 kΩ
Pin 2	Pin 3									>1 kΩ
Pin 2	Pin 4									>1 kΩ

4-Pin		Pinouts
Female	Male	
		1. BK 2. WH 3. RD 4. GN

Damage Notes:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_