

Trunk Line Resistance Check

(Alternate method for: Window Control Checks during Installation)

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Scope

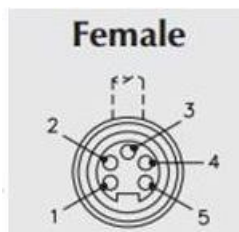
1. This can be used as an alternate testing method to “Window Control Checks during Installation”
2. This manual will guide you on how to verify that a proper installation is done when installing the Trunk Line, Tee Connectors, Drop Cables, Window Controllers and IGU Cables when the Control Panel has not been installed.

Procedures

Trunk Line resistance check

1. This is to be performed with window controllers connected to the Trunk Line.
2. Turn off Control Panel.
3. Disconnect all Power Insert Cables from Trunk Line.
4. Control Panel has AC Power: Refer to the manual “Window Control Checks during Installation” for Low Voltage Electrician to perform the rest of the test. Control Panel does NOT have AC Power: Disconnect Trunk Line from the Control Panel and continue to next step.
5. Connect a Trunk Tee and verify that all power is removed by setting the Digital Volt Meter to “DC Volts.” Measure between pins 2 and 3, the value should be 0.0 VDC. Value of Pins 2 & 3 _____.

From	To	TL 1	TL 2	Correct Resistance
Pin 1	Pin 3			Short
Pin 3	Pin 2			>1 kΩ
Pin 3	Pin 4			>1 kΩ (see note 1)
Pin 3	Pin 5			>1 kΩ (see note 1)
Pin 2	Pin 4			>1 kΩ (see note 2)
Pin 2	Pin 5			>1 kΩ (see note 2)
Pin 4	Pin 5			~ 120 Ω



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)

6. Set Digital Volt Meter to “Ohms (Ω)”; check the following pin-to-pin resistances.

Note 1: Class1 control panel with only 1 trunk line may measure less than $1k\Omega$

Note 2: Pins 2 & 4 and pins 2 & 5 exhibit a capacitive effect. These should still stabilize $> 1k\Omega$

7. Disconnect Power Insert Cable from Control Panel and check the following pin-to-pin resistances.

If Applicable								
From	To	PI_ 1 _.	PI_ 2 _.	PI_ 3 _.	PI_ 4 _.	PI_ 5 _.	PI_ 6 _.	Resistance
Pin 1	Pin 3							$>1 k\Omega$
Pin 1	Pin 4							$>1 k\Omega$
Pin 2	Pin 3							$>1 k\Omega$
Pin 2	Pin 4							$>1 k\Omega$

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

8. Once all resistance readings are within specification: Verify Control Panel is off, connect the Trunk Line Cable to the View Control Panel, and reconnect all Power Insert Cables.