

IGU Testing Guide

All IGUs must be tested prior to being connected to the Window Controller using the 4-state controller provided by View. (Part# 010-101543)

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Scope

This manual will guide the Glazier or LVE on how to properly test an IGU after installing and connecting the IGU Smart Window Connector to the IGU Cable. All IGUs MUST be tested individually prior to being connected to the Window Controller.

This test will verify that IGU cables are properly connected and the IGU is properly working. Once the testing is complete, the IGU Cable is ready to be connected to the Window Controller by the Low Voltage Electrician. If you are having an issues using this tester, please call your View Project Manager ASAP.

What's in the box

IGU tester, DC power supply, 4" IGU cable adapter, European AC power adapters, operation instructions.

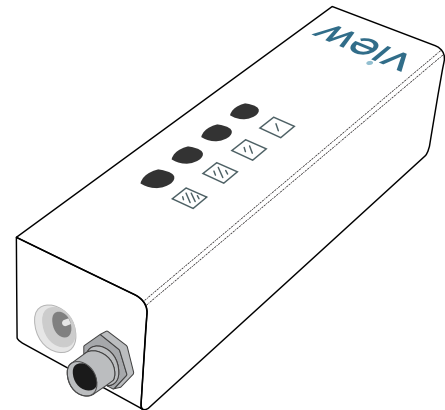
Procedures

Preparation

Ensure the IGU Smart Window Connector has been properly connected to the IGU Cable and routed for easy access to the Window Controller. Ensure no cables are pinched or damaged.

Testing Procedures

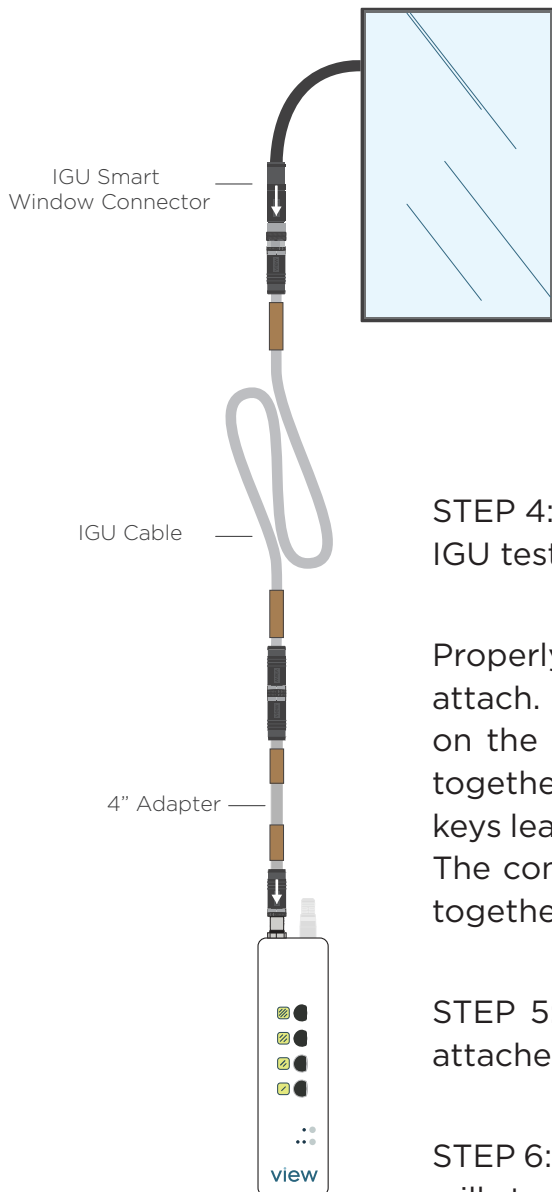
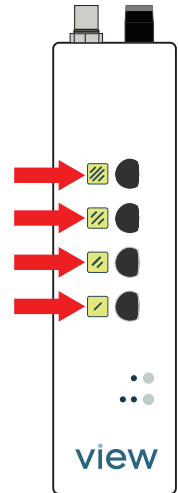
STEP 1: Remove IGU tester from shipping box.



STEP 2: Plug in the power cord to the handheld tester.



STEP 3: Plug in the power cord to an AC power source. You will notice all the lights on the controller illuminate and continue to blink.



STEP 4: Locate the 4” adapter in the box and attach to the IGU tester as shown.

Properly align the 4” adapter to the handheld tester and attach. Be sure the arrow on the IGU tester and the arrow on the 4” adapter line up. Do NOT force the connectors together. This can cause damage and misalignment of the keys leading to a failed test and possibly parts replacement. The connectors should be very easy to line up and secure together.

STEP 5: Connect the 4” adaptor to the IGU cable that is attached to the Smart Window Connector on the IGU.

STEP 6: Once the IGU Cable is attached, the tint state lights will stop blinking and be permanently illuminated for about 10 seconds and then go off. Once they go off, they will remain off until the next step.

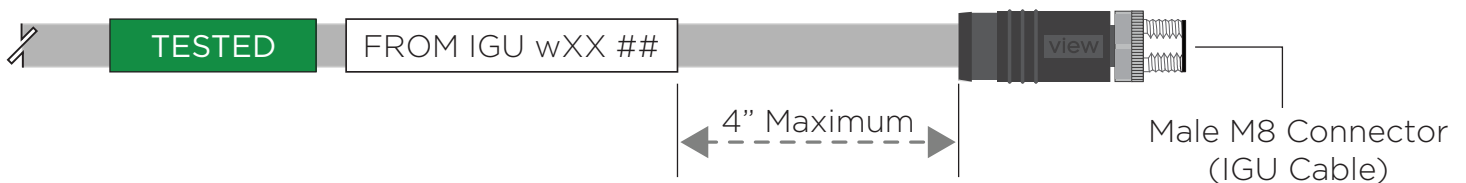
STEP 7: With the lights off, press Tint State 4 (🟩). The LED will begin to blink. Wait 1 minute while this light continues to blink. At the 1 minute marker, you should have a:

Good Reading — Tint State 4 LED will continue to flash. (No short exists)

Bad Reading — All LEDs will start flashing. (Short exists)

If you have a bad reading, refer to the “Troubleshooting” Table below.



STEP 8: After the IGU and IGU cables have passed this test, apply green “TESTED” sticker to the cable as shown in diagram below, (stickers provided by View).



Troubleshooting

4 State Controller (v.1.5) Legend Definitions

To be used in conjunction with legend on back of the 4-state tester. Provides brief description of each state:

LED		
BOOTUP	RANDOM	RANDOM
READING Smart Window Connector	SOLID RED	SOLID RED
IDLE	SOLID BLUE	SOLID BLUE
TRANSITIONING	SOLID BLUE	BLINKING GREEN
TRANSMISSION COMPLETE	SOLID BLUE	SOLID GREEN
ERROR/NO Smart Window Connector	SOLID BLUE	BLINKING RED
BOOTLOADER	SOLID RED	SOLID GREEN
IGU OOPEN	BLINKING RED	BLINKING GREEN

Bootup – Tool is booting up, allow 10 seconds for bootup cycle to complete

Reading Smart Window Connector – Both LEDs go SOLID RED for a moment – Tester is reading the parameters on the chip in the Smart Window Connector connector

Idle – Both LEDs are BLUE – the tester has read a Smart Window Connector and is waiting for a command

Transitioning – One LED is SOLID BLUE and the other is BLINKING GREEN – A tint button has been pressed and the tester is sending voltage to drive an IGU to a tint state

Transmission Complete – One LED is SOLID BLUE and the other is SOLID GREEN – Tint state reached and the tester is holding the IGU at a small voltage to keep the IGU tinted

Error / No Smart Window Connector – One LED is SOLID BLUE and the other is BLINKING RED – Tester is unable to read the Smart Window Connector connector due to not having a proper connection (nothing connected / cut IGU cable / miskey)

Bootloader – One LED is SOLID RED and the other is SOLID GREEN – Tester is stuck booting up. Try power cycling

IGU Open – One LED is BLINKING RED and the other is BLINKING GREEN – A tint button has been pressed and the tester is sending voltage to drive the IGU but is detecting an open voltage circuit (IGU cable partially cut / Smart Window Connector cut after connector causing no voltage to get through the IGU)