

Granite River Labs
Quick Start Guide
for GRL USB Power Delivery & Data Loopback Volume
Tester (GRL-V-UP)

This material is provided as a reference to assemble the hardware to start using the Granite River Labs (GRL) USB Power Delivery & Data Loopback Volume Tester (GRL-V-UP).

For customer support, contact support@graniteriverlabs.com.

TABLE OF CONTENTS

1	SCOPE OF THIS QUICK START GUIDE	4
2	GRL-V-UP SHIPPING BOX CONTENTS	4
2.1	IN BOX #1:.....	4
2.2	IN BOX #2:.....	4
2.3	IN BOX #3:.....	5
3	SETUP OF GRL-V-UP HARDWARE COMPONENTS	6
4	GRL-V-UP POWER ON AND STARTUP	7

LIST OF FIGURES

Figure 3.1: Unscrew GRL-V-UP Tester Dummy Face Plate	6
Figure 3.2: Check Orientation of GRL Tester Card Before Insertion	6
Figure 3.3: Insert GRL Tester Card Into Tester.....	7
Figure 4.1: Attach Power Cord to GRL-V-UP Tester	7
Figure 4.2: Power On GRL-V-UP Tester	8

1 Scope of this Quick Start Guide

This Quick Start Guide helps you to familiarize with the packaging contents of the GRL USB Power Delivery & Data Loopback Volume Tester (GRL-V-UP) and to get started with using the tester through proper hardware setup.

For more information on GRL-V-UP, please refer to <https://graniteriverlabs.com/grl-v-up/>.

For purchase orders, licensing questions and concerns, please contact Granite River Labs support at support@graniteriverlabs.com.

2 GRL-V-UP Shipping Box Contents

Below lists the standard purchase items that shipped with the GRL-V-UP.

2.1 In Box #1:

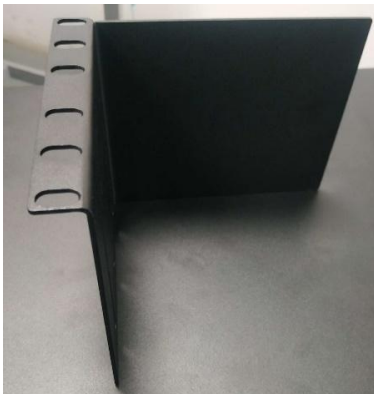


GRL-V-UP – GRL USB Power Delivery & Data Loopback Volume Tester



Power Cord

2.2 In Box #2:



2x L-Clamp (Big)



2x L-Clamp (Small)

- **8x M4 X 6 Philips Pan Head Screws**
- **12x M4 X 6 Countersunk Screws**

2.3 In Box #3:



GRL-USB-PD-TC – GRL Tester Card

3 Setup of GRL-V-UP Hardware Components

Below is the procedure to set up and attach the GRL Tester Card (GRL-USB-PD-TC) into the GRL-V-UP tester.

1. First loosen the two thumb screws on a dummy face plate slot of the GRL-V-UP tester as shown below.

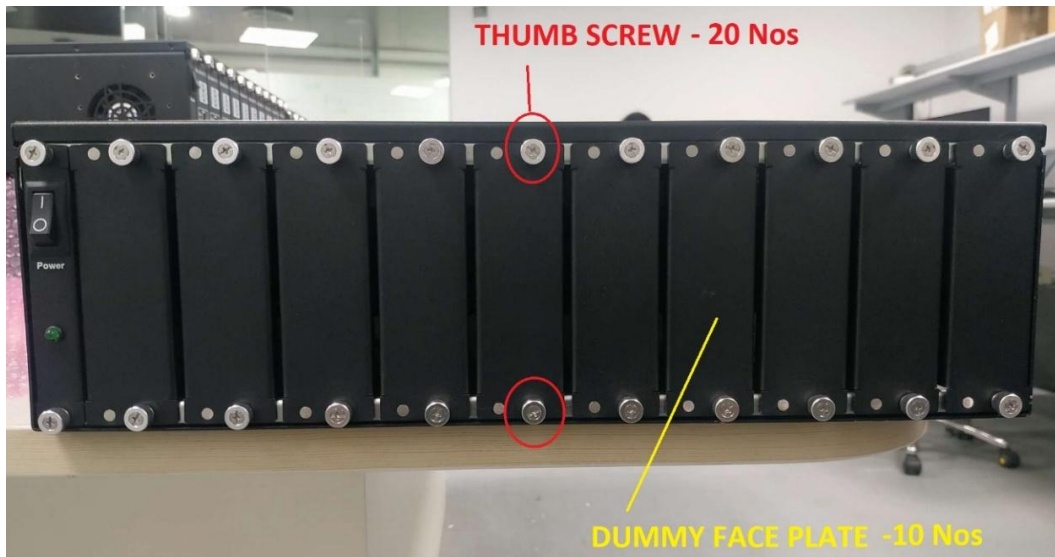


FIGURE 3.1: UNSCREW GRL-V-UP TESTER DUMMY FACE PLATE

2. By holding both the thumb screws, carefully remove the dummy face plate from the tester.
3. Remove the GRL Tester Card from its packaging. Before inserting the tester card into the GRL-V-UP tester, ensure correct orientation using the top and bottom guide pins on the tester card as shown below.

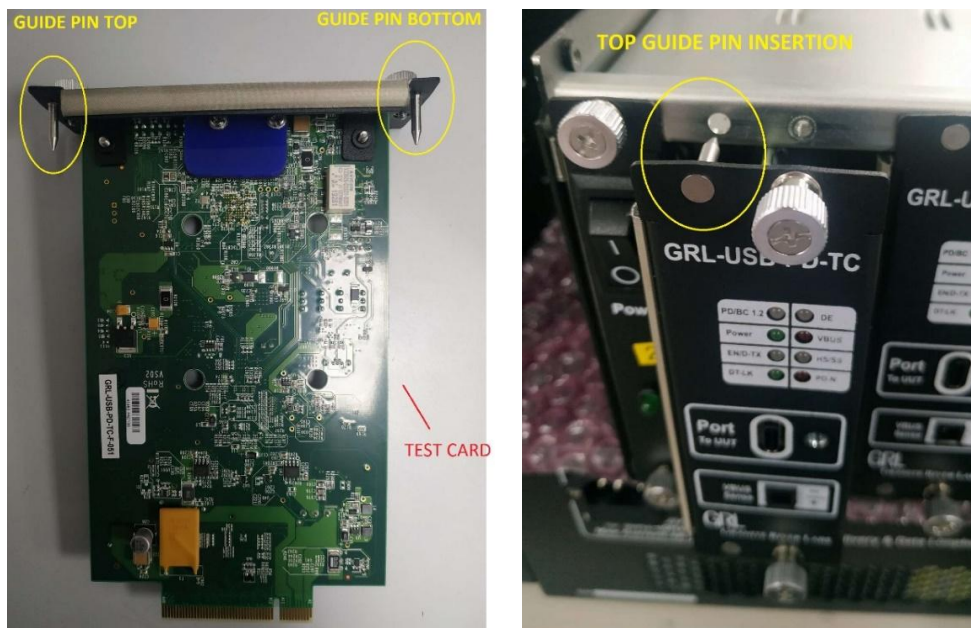


FIGURE 3.2: CHECK ORIENTATION OF GRL TESTER CARD BEFORE INSERTION

4. Gently insert the tester card by attaching it firmly to the groove guide as indicated below.



FIGURE 3.3: INSERT GRL TESTER CARD INTO TESTER

5. After inserting the tester card, fasten the thumb screws on the tester card to lock it in.
6. Follow the same procedure as above to add in more tester cards to the other tester slots.

4 GRL-V-UP Power On and Startup

Below is the procedure to switch on and start using the GRL-V-UP tester.

1. Plug in the supplied power cord accessory to the AC input power inlet on the back of the GRL-V-UP tester as shown below.

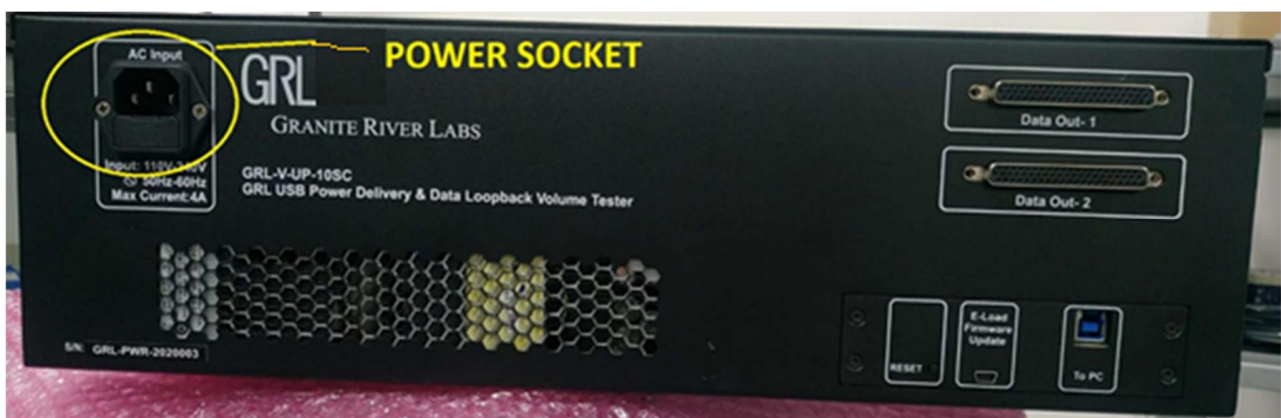


FIGURE 4.1: ATTACH POWER CORD TO GRL-V-UP TESTER

2. Turn ON the power switch on the front of the GRL-V-UP tester as shown below.



FIGURE 4.2: POWER ON GRL-V-UP TESTER

3. Make sure that after power ON the Power (Green) LED on each attached tester card is glowing.
4. Check the following to verify proper bootup of each tester card:
 - a. The DT-LK (Green) LED should turn ON initially and then turn OFF.
 - b. After the DT-LK LED has turned off, check that the PD-N (Red) LED blinks twice before it turns OFF.

END_OF_DOCUMENT