

Special Update

1. Firmware Update

2. Check the Firmware Version

3. Kernel Update

4. Check the Kernel Version



The firmware must to be upgraded twice.

Do not disturb or shut off the power on the power supply during this update.

If 'F-10' is 1, the power supply 's speaker will sound during the update.

Firmware Update

The firmware can be upgraded using the USB A port on the front panel.

Background

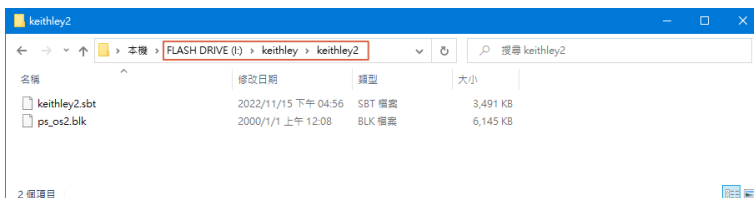
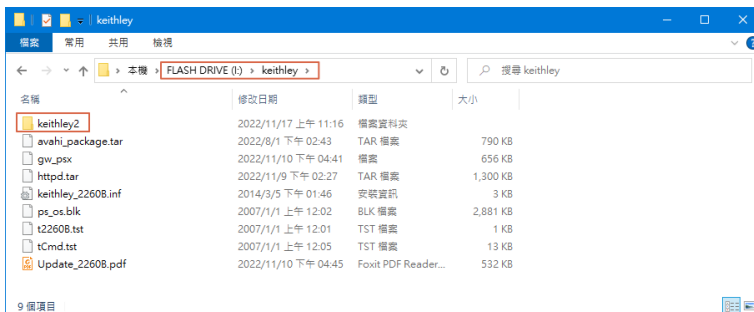


Note

- Ensure the load is not connected.
- Ensure the output is off.
- The USB Flash Drive must be in FAT32 file format.

1. First, unzip the update zip (or 7z) (The **keithley** folder needs to contain all the other files in the zip (or 7z) file,

The directory structure reference is as follows:
eg: httpd.tar,
tCmd.tst,
avahi_package.ta
r...etc.)





Note

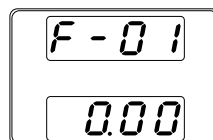
- For units with firmware version V 1.12 or below, a folder named “keithley” must be created (\keithley) and the gw_psx file should be copied to both the root directory and to the “keithley” folder before proceeding with the firmware update procedure.
- For firmware versions after V1.12, only the root directory needs to contain the gw_psx file

2. Insert a USB Flash Drive into the USB port on front panel of the DC power.

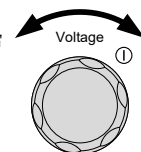
3. Press the Function key. The function key will light up.



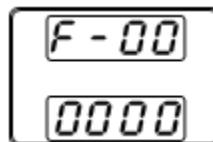
4. The display will show F-01 on the top and the configuration setting for F-01 on the bottom.



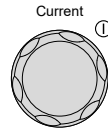
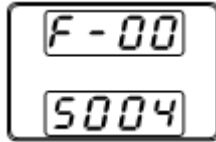
5. Rotate the voltage knob to change the F setting, until to F-00 is shown.



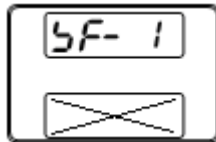
6. The display will show F-00 on the top and the 0000 for the Password for F-00.



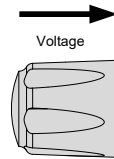
7. Use the current knob to set the Password for the F-00 setting. The Password is "5 0 0 4".



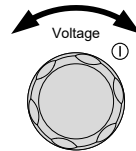
8. Press the Voltage knob to enter the Special Mode. SF- 1 will be displayed when successful.



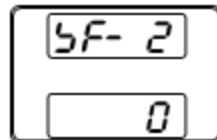
X for don't care



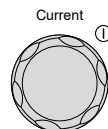
9. Rotate the voltage knob to change the SF setting, until to SF- 2 is shown.



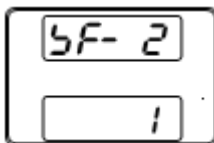
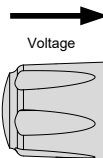
10. The display will show SF- 2 on the top.



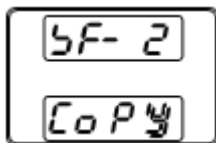
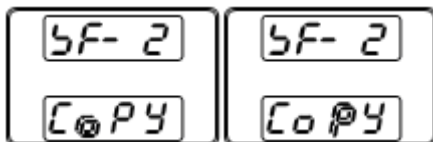
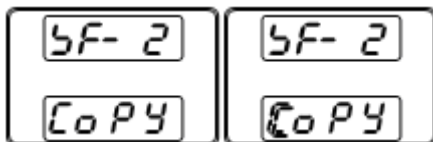
11. Use the current knob to set SF- 2 to "1".



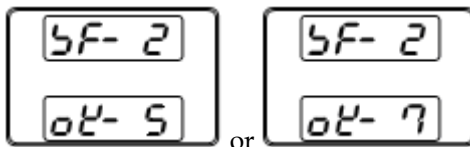
12. Press the Voltage knob to copy the new firmware to the power supply.



13. On progressing, the display will show blew lists.



14. After SF- 2 ok, the system will reboot automatically.





The firmware must to be upgraded twice.

Check the Firmware Version

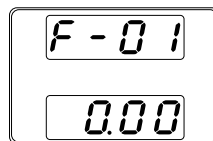
Background

The F-89 configuration setting allows you to view the version number, build date, keyboard version, analog-control version, kernel build, test command version and test command build date.

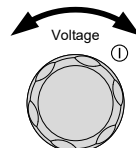
1. Press the Function key. The function key will light up.



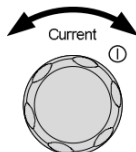
2. The display will show F-01 on the top and the configuration setting for F-01 on the bottom.



3. Rotate the voltage knob to change the F setting to F-89 (Show Version).



4. Rotate the current knob to view the version and build date for the various items.



- F-89 0-XX: Main Program Version
 1-XX: Main Program Version
 2-XX: Main Program Build On-Year.
 3-XX: Main Program Build On-Year.
 4-XX: Main Program Build On-Month.
 5-XX: Main Program Build On-Day.
 6-XX: Keyboard CPLD version.
 7-XX: Keyboard CPLD version.
 8-XX: Analog CPLD version.
 9-XX: Analog CPLD version.
 A-XX: Control Board version.
 B-XX: Reserved.
 C-XX: Kernel Build On-Year.
 D-XX: Kernel Build On-Year.
 E-XX: Kernel Build On-Month.
 F-XX: Kernel Build On-Day.
 G-XX: Test Command Version.
 H-XX: Test Command Version.
 I-XX: Test Command Build On-Year.
 J-XX: Test Command Build On-Year.
 K-XX: Test Command Build On-Month.
 L-XX: Test Command Build On-Day.

5. Press the Function key again to exit.
The function key light will turn off.

Function



For This Version	Main Program Version: 03.38, 2025/09/02
	0-03 : Main Program Version
	1-38 : Main Program Version
	2-20 : Main Program Build On-Year.
	3-25 : Main Program Build On-Year.
	4-09 : Main Program Build On-Month.
	5-02 : Main Program Build On-Day.

Kernel Update



Note

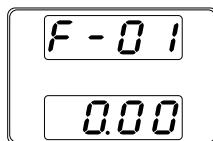
- Ensure the load is not connected.
- Ensure the output is off.
- The USB Flash Drive must be in FAT32 file format.

1. Insert a USB Flash Drive into the USB port on front panel of the DC power.
2. **keithley** folder includes ps_os.blk and **keithley** / **keithley2** folder includes ps_os2.blk.
3. Press the Function key. The function key will light up.

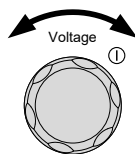
Function



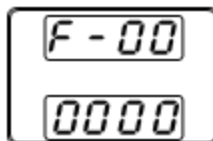
4. The display will show F-01 on the top and the configuration setting for F-01 on the bottom.



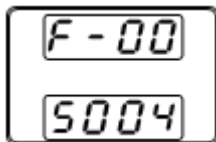
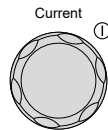
5. Rotate the voltage knob to change the F setting, until to F-00



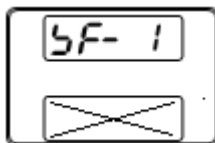
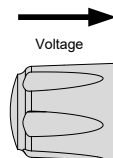
6. The display will show F-00 on the top and the 0000 for the Password for F-00



7. Use the current knob to set the Password for the F-00 setting. The Password is "5 0 0 4" .

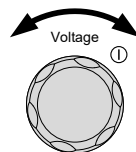


8. Press the Voltage knob to enter the Special Mode. SF- 1 will be displayed when successful.

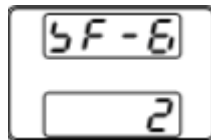


X for don't care

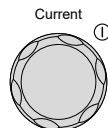
9. Rotate the voltage knob to change the SF setting, until to SF- 6



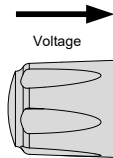
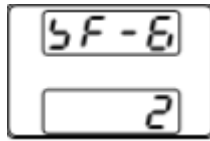
10. The display will show SF- 6 on the top.



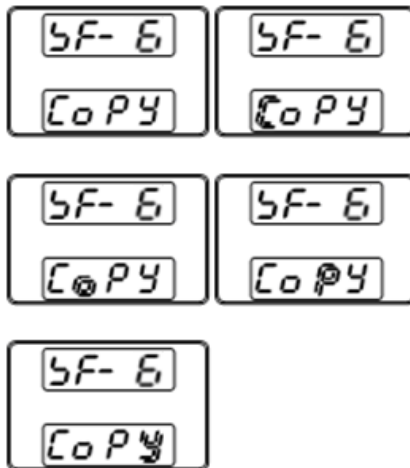
11. Use the current knob to set the value for the SF- 6. The value is "2"



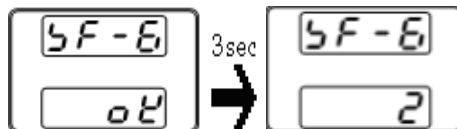
12. Press the Voltage knob to copy the new kernel to the 2260B



13. On progressing, the display will show blew lists.



14. After the update has finished, SF-6 ok will be displayed.



15. **Cycle Power to complete this procedure.**

Check the Kernel Version

Background The F-89 configuration setting allows you to view the version number, build date, keyboard version, analog-control version, kernel build, test command version and test command build date.

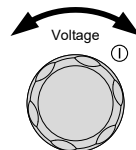
16. Press the Function key. The function key will light up.



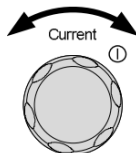
17. The display will show F-01 on the top and the configuration setting for F-01 on the bottom.



18. Rotate the voltage knob to change the F setting to F-89 (Show Version).



19. Rotate the current knob to view the version and build date for the various items.



- F-89 0-XX: Main Program Version
 1-XX: Main Program Version
 2-XX: Main Program Build On-Year.
 3-XX: Main Program Build On-Year.
 4-XX: Main Program Build On-Month.
 5-XX: Main Program Build On-Day.
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 B-XX: Reserved.
 C-XX: Kernel Build On-Year.
 D-XX: Kernel Build On-Year.
 E-XX: Kernel Build On-Month.
 F-XX: Kernel Build On-Day.
 G-XX: Test Command Version.
 H-XX: Test Command Version.
 I-XX: Test Command Build On-Year.
 J-XX: Test Command Build On-Year.
 K-XX: Test Command Build On-Month.
 L-XX: Test Command Build On-Day.

20. Press the Function key again to exit.
 The function key light will turn off.

Function



For This Kernel Version	2022/01/13 ⁽¹⁾ or 2023/03/06 ⁽²⁾
	C- 20 or 20 : Kernel Build On-Year.
	D- 22 or 23 : Kernel Build On-Year.
	E- 01 or 03 : Kernel Build On-Month.
	F- 13 or 06 : Kernel Build On-Day.
	A- 00 or 01 : Control Board Version.

Note: ⁽¹⁾ If the **A** item is 00. ⁽²⁾ If the **A** item is 01.
