

REG TYPE 33v11 Instruction Manual

Produce by Shige

This product is an evolved version of the T77 discharger, and its operation is T77 compliant.

Due to the single cell discharge circuit, many heat generating parts are installed. Please use with caution to avoid burns and fires. Modifications such as removing existing parts or installing self-made parts due to heat dissipation are strictly prohibited as they may cause unexpected troubles.

This does not apply to the SKW case that was tested for heat resistance here.

During one set, the voltage of each battery is measured individually and the battery is discharged while maintaining balance. Be sure to discharge a set of two. Never discharge with just one wire. It will malfunction.

The maximum discharge current in normal discharge is 3A. If the aperture start voltage is set to 2.50V or less, the maximum discharge current will be 1.5A to protect the IC.

1 Preparation for use

The power source is a USB TypeC 5V connected separately to the discharger (Do not connect other devices to the same USB. Voltage fluctuations may cause the microcontroller to malfunction.) or 2 AA batteries (charged secondary Battery (2.8v), new alkaline battery). When connecting the power supply or inserting the battery for power supply, please make sure that the slide switch is on the right side (OFF) before connecting.

The slide switch is a switch for the microcomputer power supply.

There is no switch on the 5V circuit that boosts the power supply battery, so if you leave the battery in it, the battery will be empty even if you turn the slide switch off. Please remove the power battery after use.

In the operation instructions, the button numbers are from the top left: ① ② ③

From bottom left: ④ ⑤ ⑥ ⑥

So, I will explain.

2 Start

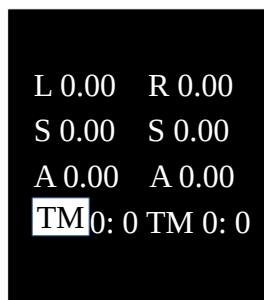
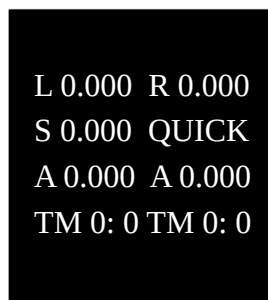
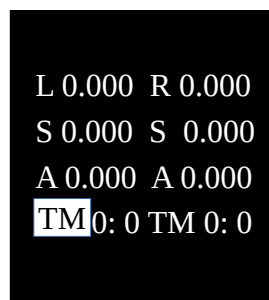
When turning on the power using the power slide switch, be careful not to touch the button switch. It will enter automatic configuration mode. If automatic configuration is executed without preparation, it will become unusable.

After connecting the power supply or installing the power supply battery, slide the slide switch on the monitor to the left (ON).

When you start it up, the opening message will be displayed for about 3 seconds and then you will move to the initial screen.

3 Initial screen

① Standard target TM white ② Quick mode ③ Number of digits display



Basic operations

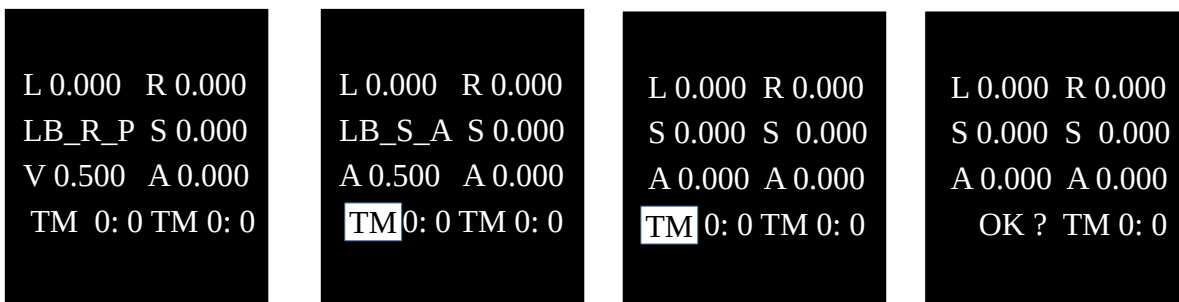
① Turn on the power while pressing the button Automatic setting when replacing the microcomputer. Under normal circumstances, never operate this function.

- ① Button Switch between left and right operation target. TM is highlighted for the target.
- ② Button: Switch between standard discharge mode and quick discharge mode. QUICK is highlighted.
- ② Long press button (3 seconds) Battery voltage calibration.
- ③ Button: Changes the number of digits displayed.
- ④ Button: Move to aperture start voltage setting.
- ⑤ button disabled
- ⑥ button Move to check discharge settings.

4 Standard discharge

Initial screen basic operation ④ Press button to move to aperture start voltage setting.

1. Aperture start voltage setting 2. Discharge end current setting 3. Initial screen 4. Setting confirmation screen



1 Aperture start voltage setting

- ① Button: Switch between left and right operation targets.
(Can be set parallel to left and right)
- ② Button Increase the value by 0.1.
- ③ Button Increase the value by 0.01.
- ④ Button Go to the initial screen. (Go back one step)
- ⑤ button: Decrease the value by 0.1.
- ⑥ Button Save settings. Move to discharge end throttle current setting. (Go to 2)

2 Discharge end throttle current setting

- ① Button: Switch between left and right operation targets.
- ② Button Increase the value by 0.1.
- ③ button disabled
- ④ Button Go to aperture start voltage setting. (Go back one step)
- ⑤ button: Decrease the value by 0.1.
- ⑥ button Save the settings and return to the initial screen. (Go to 3)

3 Initial screen Initial screen basic operation

- ⑥ Press button to move to discharge setting confirmation. (Go to 4)

4 Check discharge settings

- ① Button: Switch between left and right operation targets.
- ② button disabled
- ③ button disabled
- ④ Button Return to the initial screen.

- ⑤ button disabled
- ⑥ Button Start discharge. LED lights up. Starts operation after simple timer reset.

5 During discharge

- ① Button: Switch between left and right operation targets.
If you change the operation target, the target button will be operated.
- ② button disabled
- ③ Button: Switch the number of digits displayed.
- ④ Button Disabled
- ⑤ button disabled
- ⑥ Button Manual stop. Simple timer stop.

When the discharge progresses and the current is reduced to the set value, the corresponding inverted display will blink.

When the battery voltage rises above the set voltage, it will discharge to maintain the set voltage.

To stop completely, press the manual stop button.

5 Quick discharge

Basic operation ②”

quick discharge screen

```
L 0.000 R 0.000
S 0.000
A 0.000 A 0.000
TM 0: 0 TM 0: 0
```

- ① Button Switches the operation target left and right.
- ② Button Return to standard mode.
- ③ Button Switch the number of digits displayed.
- ④ Discharges at 0.5A while the button is pressed, and stops when released.
- ⑤ Discharges at 1.0A while the button is pressed, and stops when released.
- ⑥ Discharges at 3.0A while the button is pressed, and stops when released.

6 Battery voltage display calibration

Voltage display calibration is performed using the total voltage with two batteries inserted.

Calibration cannot be performed with a single battery.

Initial screen Basic operations ② Press and hold the button (about 3 seconds) to move to calibration mode.

Battery voltage calibration screen

```
L 0.000 R 0.000
LB_A_V S 0.000
0.00000 A 0.000
TM 0: 0
```

- ① Button Switches the operation target left and right.
- ② Button Increase the value by 0.01.
- ③ Button Increase the value by 0.001.
- ④ Button Increase the value by 0.0001.
- ⑤ Button Decrease the value by 0.01.
- ⑥ Button Save finished.