KWA ETU
Instruction Manual

Welcome to the KWA ETU Instruction Manual!

Let's learn about the KWA ETU and how to use it! We'll start with getting into the program mode.

UNDERSTANDING YOUR ETU

1

Checking the Battery

- When you plug in the battery, the ETU will figure out what type it is.
- Hear 2 beeps? That means it's a 7.4V battery (2 cells).
- Hear 3 beeps? That's an 11.1V battery (3 cells).

2

Entering Programming Mode

1. Safety First:
   - Make sure the battery is plugged in.
   - Keep the selector on SAFE.
2. Getting Started:
   - Hold the trigger for 3 seconds or until you hear 2 beeps that go up in pitch.
   - These beeps tell you that you're now in programming mode.

3

Navigating the Menu

Quick Guide:

- The KWA ETU V1 uses trigger pulls to navigate.
- Short Trigger Pull: Move between options.
- Long Trigger Pull: Select an option.
- 2 Rising Beeps: You've entered a submenu.
- 3 Rising Beeps: You've selected an option in the submenu.

Exploring the Program Mode of Your KWA ETU

If you enter the program mode and dont make any selection, the mosfet will give you a preview of what is programmed currently onto the etu.

How It Works:

Precocking Setting Preview

- 1 (Beep): Wait without action

→ You'll get a preview of the pre-cocking setting.

- Short Trigger Pull:

→ Move to the next menu option.

Burst Mode Setting Preview

- 2 ((Beeps)): Wait without action

→ Preview the status for Burst mode.

- Short Trigger Pull:

→ Move to the next menu option

Burst Round Setting Preview

- 3 (((Beeps))): Wait without action

→ See the status for the burst round setting.

- Short Trigger Pull:

→ Move to the next menu option.

Trigger Sensitivity Setting Preview

- 4 ((((Beeps)))): Wait without action

→ Check the status for trigger sensitivity.

- Short Trigger Pull:

→ Move to the next menu option

Brushless Motor Mode Setting Preview

- 5 (((((Beeps))))) Wait without action

→ Preview the status for Brushless motor mode.

- Short Trigger Pull:

→ Move to the next menu option

Equalizer Setting Preview

- 6 ((((((Beeps))))))

Wait without action

→ See the status for the Equalizer.

Exploring the Functionality of Each Option in the KWA ETU Menu

With the variety of options available on the KWA ETU, let's delve into each one to understand their unique functions. We'll guide you through the steps to access these features and explain what each setting does.

WHAT IS PRECOCKING?

Precocking is like preparing your replica gun to be quicker and more responsive. It makes the firing faster by adding a bit of extra power at the end of each shooting cycle. This extra power pulls the piston back a little bit before it's released to fire a shot. This means the gears don't have to cycle as much between pulling the trigger and the BB firing, leading to a quicker shot.

How to Access and Set Precocking

1.Enter Programming Mode:

- Get into programming mode by following the initial steps.
- Listen for 1 Beep. This tells you that you're in the precocking section of the main menu.

2.Entering Precocking Mode Submenu:

- Long Trigger Pull: After hearing the 1 beep, do a long trigger pull.
- You'll hear 2 Rising Beeps. This confirms you've entered the precocking submenu.

3.Options in Precocking Mode:

- (1 Beep): No precocking.
- ((2 Beeps)): Precocking (default setting).

4.Making Your Selection:

- Short Trigger Pull: Switch between the two options.
- Long Trigger Pull: Confirm your selection.

5.Exiting the Submenu:

- If you don't make a selection, the ETU will exit the submenu on its own.



BURST MODE SELECTION

Purpose:
Burst Mode adjusts how your replica behaves in the (AUTO) selector position. It offers:

- A **Burst Mode** where one trigger pull results in multiple rounds firing (default is 3 rounds).
- A **Semi-Lock Function** for situations where only semi-automatic fire is allowed.

How to Access

1.Enter Programming Mode:

2.Navigate to Burst Mode:

- Use a **short trigger pull** to move to the 2nd option.
- **2 Beeps**: Indicates you're at "Burst Mode Selection."

3.Enter Burst Mode Submenu

- **Long Trigger Pull:** Moves you into this submenu.
- **2 Rising Beeps:** Confirms entry.

Options:

- **(1 Beep):** Auto (default setting).
- **((2 Beeps)):** Burst mode.
- **(((3 Beeps))):** Semi-automatic mode

4.Making Your Selection:

- Short Trigger Pull: Switch between the two options.
- Long Trigger Pull: Confirm your selection.

5.Exiting the Submenu:

- If you don't make a selection, the ETU will exit the submenu on its own.



BURST NUMBER SETTING

Purpose:
This function sets the number of rounds fired in a burst when Burst Mode is active.

How to Access

1.Enter Programming Mode:

2.Navigate to Burst Number Setting

- Use short pulls to reach the 3rd option.
- 3 Beeps: You're at the Burst Number Setting.

3.Enter Burst Number Submenu

- **Long Trigger Pull:** Enters this submenu.
- **2 Rising Beeps:** Confirms entry.

Options:
Set your burst from 2-5 rounds. Beeps in the submenu indicate the round setting:

- **((2 Beeps)):** 2-round burst.
- **(((3 Beeps))):** 3-round burst (default).
- **((((4 Beeps)))):** 4-round burst.
- **(((((5 Beeps))))):** 5-round burst.

Additional Notes:

- Burst Interruption: Releasing the trigger mid-burst stops the burst.
- Compatibility: This feature is inactive if Auto or Semi is chosen in Burst Mode Selection.

4.Making Your Selection:

- Short Trigger Pull: Switch between the two options.
- Long Trigger Pull: Confirm your selection.

5.Exiting the Submenu:

- If you don't make a selection, the ETU will exit the submenu on its own.

TRIGGER SENSITIVITY SETTING

Purpose:
The **Trigger Sensitivity** function allows you to adjust the length of the trigger pull required before the replica fires. This setting is particularly useful as it doesn't require any modification to the trigger or opening of the gearbox.

How to Access

1.Enter Programming Mode:

2.Navigate to Trigger Sensitivity:

- Use **3 short trigger pulls** to reach the 4th option.
- **4 Beeps**: Indicates you're at the Trigger Sensitivity option.

3.Enter Trigger Sensitivity Submenu:

- **Long Trigger Pull:** Advances to the submenu.
- **2 Rising Beeps:** Confirms entry.

Options in Submenu:
In this submenu, you'll choose the sensitivity level:

- **(1 Beep):** High sensitivity (default setting).
- **((2 Beeps)):** Medium sensitivity (Equalizer will work).
- **(((3 Beeps))):** Low sensitivity (Equalizer will work).

Additional Notes:

- **Personal Preference:** This setting is about how you like your trigger to feel. Some users may prefer a longer trigger pull, while others prefer a shorter one.
- **Equalizer Compatibility:** More information about the Equalizer will be provided in a later section.

4.Making Your Selection:

- Short Trigger Pull: Switch between the two options.
- Long Trigger Pull: Confirm your selection.

5.Exiting the Submenu:

- If you don't make a selection, the ETU will exit the submenu on its own.

BRUSHLESS MOTOR MODE SETTING

Purpose:
The **Brushless Motor Mode** is designed for use with brushless motors, which have a slower start-up phase compared to standard motors.
It's important to note that this setting should **only** be enabled if your replica is equipped with a brushless motor.

How to Access

1.Enter Programming Mode:

2.Navigate to Brushless Motor Mode

- Use **4 short trigger pulls** to reach the 5th option in the main menu.
- (((((**5 Beeps**))))): Confirms you're at the Brushless Motor Mode option.

3.Enter Trigger Sensitivity Submenu:

- **Long Trigger Pull:** Advances to the submenu.
- **2 Rising Beeps:** Confirms entry.

Options in Submenu:
In this submenu, select the appropriate motor mode:
- **(1 Beep):** Non-Brushless Motor (default setting).
- **((2 Beeps)):** Brushless Motor Mode.

4.Making Your Selection:

- Short Trigger Pull: Switch between the two options.
- Long Trigger Pull: Confirm your selection.

5.Exiting the Submenu:

- If you don't make a selection, the ETU will exit the submenu on its own.

EQUALIZER SETTING

Purpose:
The **Equalizer** function is designed to adjust the trigger's reset point during rapid firing. When activated, the Equalizer shifts this reset point, allowing the trigger to reset before reaching the back wall of the trigger housing. This feature facilitates more consistent and quicker follow-up shots.

How to Access

1.Enter Programming Mode:

2.Navigate to Equalizer Mode:

- **Use 5 short trigger pulls** to navigate to the 6th option in the main menu.
- **Hear (((((6 Beeps)))))):** Indicates you're at the Equalizer option.

3.Enter Trigger Sensitivity Submenu:

- **Long Trigger Pull:** Advances you into the Equalizer submenu.
- **2 Rising Beeps:** Confirms entry.

Options in Submenu:
In this submenu, choose to activate or deactivate the Equalizer:

- **1 Beep:** Off (default setting).
- **((2 Beeps)):** On.

Important Note:

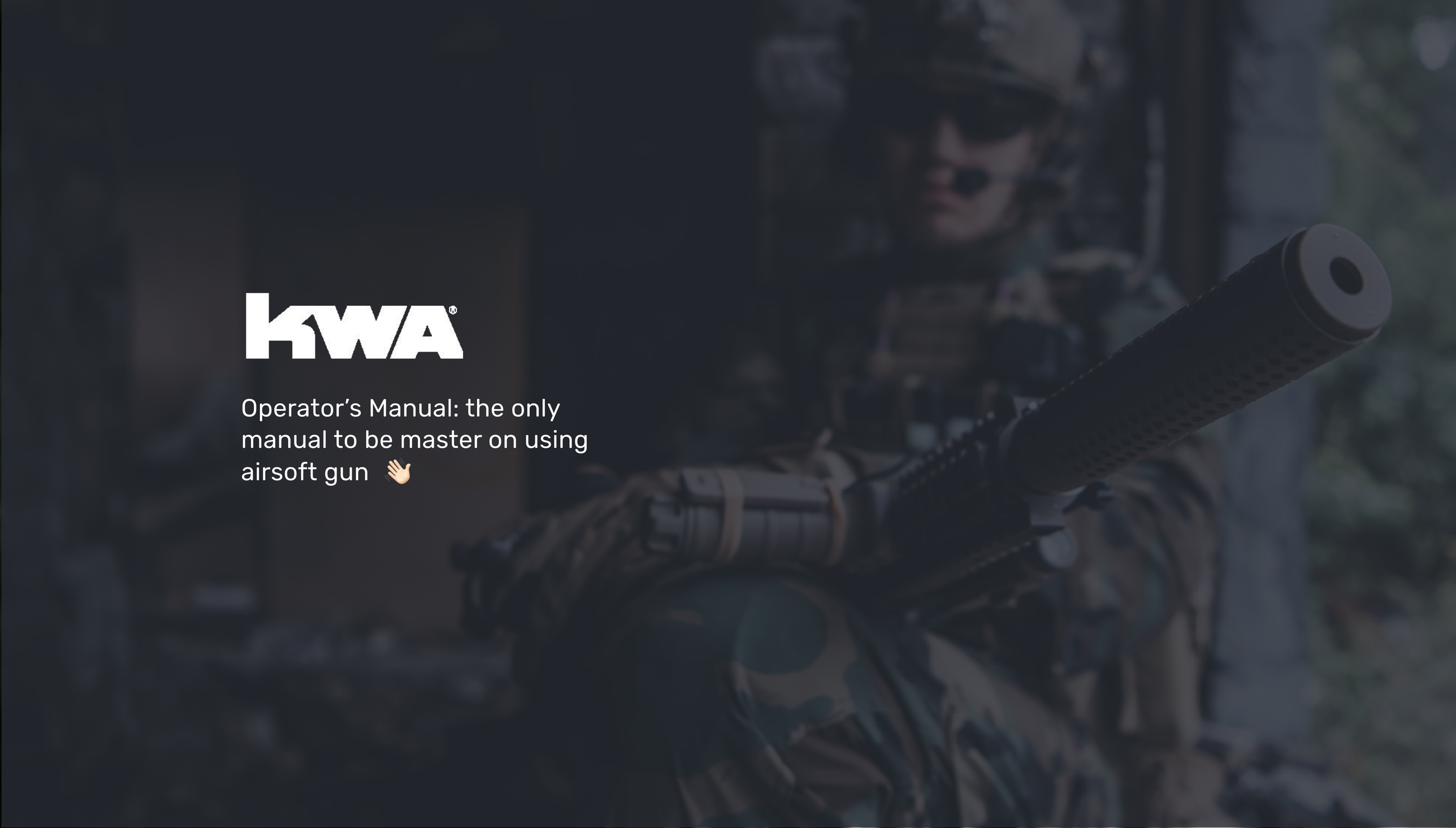
- This function may not perform as expected if aftermarket triggers that are physically short-stroked are installed. In such cases, the Equalizer function might become obsolete.

4.Making Your Selection:

- Short Trigger Pull: Switch between the two options.
- Long Trigger Pull: Confirm your selection.

5.Exiting the Submenu:

- If you don't make a selection, the ETU will exit the submenu on its own.



KWA

Operator’s Manual: the only manual to be master on using airsoft gun 👋🏻