How to set up and use PRVC's
PACT CLUB TIMER

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The PACT Club Timer:

The Club Timer is a self-contained timing device that counts time intervals to 100ths of a second. It features a highly-audible piezo signal, a built-in microphone, and a multi-function LCD display. The system is powered by a standard 9v battery.

The Club Timer has two modes: standard - an audible signal (beep) which precedes the counting sequence, and PAR - an audible signal (beep) followed by a second audible signal (beep) at a pre-set time interval.

Turning the unit on:

The Club Timer does not have an ON/OFF switch; the first press of any button turns the system. It will shut off automatically after 15 minutes of inactivity.

Controls:

There are four control buttons (Fig. 1). Pressing either of the two arrow buttons increases or decreases settings. Pressing the RVW (review) button steps through the sequence of shots of the last string and provides the relative times (and is also used to step through some setup modes). Pressing the GO button initiates the timing sequence (and is also used to exit from some setup modes).

The Club Timer's microphone is hidden in the recess next to the GO button. (Some TOs prefer to place their finger over this opening immediately at the end of a shooting string to prevent extraneous noise from inadvertently recording an additional shot. Regardless, the time should be immediately read and stated aloud in the event the Club Timer gets hit or bumped.)

The Club Timer's display:

Standard mode (Fig. 2):
A) The sequential number of the shots fired.
B) The elapsed time from the starting signal (beep) to the last shot. (The total time of the string to this point.)
C) The elapsed time from the starting signal (beep) to the "first shot." (The first shot data helps to evaluate initial reaction time.)
D) The **SPLIT** time - the time between the most recent shot and the previous shot.

Understanding the display's data - example:

As shown in Fig. 3 (top), this timer captured the second shot ("#2") at 6.39 seconds. The **FIRST SHOT** occurred at 0.69 seconds, and the **SPLIT** time between the second shot and the **FIRST SHOT** was 5.70 seconds. Fig. 3 (bottom) shows the next shot ("#3") occurred at 18.79 seconds after the signal and the time between this shot and the previous shot was 12.40 seconds. The time to the **FIRST SHOT** does not change.

Fig.1 (A) The top of the Club Timer has a "down" button, (B) an "up" button, (C) a "RVW" review button, and (D) a "GO" button. The speaker/microphone is located in the opening (E).

Fig.2 The display shows: (A) sequential number of the last shot, (B) cumulative time since first signal (beep), (C) time from the signal (beep) to the first shot, and (D) the time (SPLIT) between the shot just counted and the previous shot.

Fig.3 Top: the second shot occurred at 6.39 seconds, the first shot at 0.69 seconds. Bottom: the third shot occurred at 18.79 seconds and was 12.40 seconds after the previous shot.

Using the Club Timer:
Pressing and holding the GO button puts the Club Timer in a "ready" mode. If the unit is set to the **INSTANT** mode (Fig. 4 top), the unit will produce a signal (beep) when the button is <u>released</u>. If it is set to the **DELAY** mode it will delay the starting signal (beep) about 2.5 to 3 seconds.

Once the signal (beep) is generated, the Club Timer begins counting the seconds to two decimal places and the number of shots. After each shot, the timer will display the number of shots and the accumulated time.

Pressing the GO button will reset the system and display data. With the button pressed, the **TIME** is set to 0.00 and all other information is blank.

(In the event of a re-start, the timer does not have to be stopped. The TO just needs to press and release the GO button to restart the Club Timer.)

Review mode - RVW:
Pressing the RVW button puts the unit in the "review" mode. Each time you press the RVW button, the Club Timer will increment to the next shot. Continuous pressing of the RVW button will increment through all the shots fired in the last string and then place the unit back into the TIME mode. You can also increment up and down through the string of shots by first pressing the RVW button and then pressing the **<** or **>** arrows (pressing these arrows will allow you to increment through the shooting string without being returned to the TIME mode). At any time you wish to jump back to the TIME mode, just press the GO button.

The three different modes:
1) **DELAY** mode will stall the starting signal (beep) from 2.5 to 3 seconds after the GO button is <u>released</u>. (This delay time is preset and not user set-able.)

2) **INSTANT** indicates that the starting signal (beep) will occur immediately after the GO button is <u>released</u>.

3) When set to **PAR** time, the Club Timer will provide a starting and an ending signal (beep) (depending on the number seconds set in the unit). This enables the shooter to accomplish a specific number of tasks within a specific (PAR) period.

To enter the set mode, press and release the two arrow keys (**<** and **>**) simultaneously; the word **SET** will appear, and **DELAY** and **INSTANT** flash alternately. Press the UP arrow <u>once</u> to set the **DELAY** mode or the DOWN arrow <u>once</u> to set the **INSTANT** mode. (While in the set mode, only one press of either the up or down arrow button is needed to change the setting. The DOWN arrow is the one pointing to the butt end of the unit; the UP arrow points to the display screen.) To go back to the time mode, press the GO button.

Fig.4 When the unit is set to delay mode, the word DELAY appears on the screen (top photo). When set to the instant mode, the word INSTANT appears. However, either of these words only appears after the button is pressed and before the first shot is counted.

Fig.5 The word **nonE** will appear if you press the RVW button and no shots have been recorded (fired).

Fig.6 With PAR set, the word **PAR** will appear on the display along with the PAR time. Here it is set to 5.41 seconds.

Fig.7 Here the PAR time was run. with only one shot fired. It occurred at 6.44 seconds, 1.03 seconds after the PAR time.

To enter the **PAR** mode, simultaneously press the two arrow keys (**<** and **>**) to get into the SET mode. Then press the RVW button. The current PAR time (if any) will be displayed with the hundreds number flashing. Use the arrow keys to set the hundreds of seconds, then press the RVW button to increment to the tenths of a second; the tenths of a second number will flash. Again, use the up and down arrow keys to set the tenths of a second. Then press the RVW button again and the seconds number will be flashing, and so on. The time you set will be the period between the first signal (beep) and the PAR signal (second beep). To go back to the TIME mode, press the GO button.

To set the PAR time to zero so that a second signal (beep) is not sounded, enter the SET mode by pressing and releasing the two arrow keys (**<** and **>**) simultaneously, then choose either **DELAY** or **INSTANT** and then press GO. (This sets PAR time to zero.)

NOTES:
1) With a PAR time set, the word **PAR** will be displayed on the lower left of the screen. (See Fig. 8)

2) When PAR time is used, the **INSTANT** feature is disabled to allow the Club Timer to be used without an assistant. In this case the first signal (beep) will sound at the system's DELAY time (2.5 to 3 seconds), followed by the PAR signal (beep) at the pre-set PAR time.
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3) in PAR mode, if a split time is displayed, it is the time from the PAR (second signal) to the last shot; basically an over-time count to any shot that occurred after the PAR second signal (beep) sounded.

Battery replacement:
As shown in Fig.9, the PRVC Club Timers have a "–" and "+" orientation label on the inside of the battery lid. If the label is missing, the battery should be inserted with the negative terminal (–) positioned closest to the display screen and the positive terminal (+) positioned closest to the butt-end of the unit.

NOTES:
1) It is ideal to change the battery with the unit in the ON mode.

2) If the Club Timer stays in the off mode after a new battery is installed, remove the battery and let the unit stand for 60 seconds before re-installing the battery.

Sensitivity adjustment:
The Club Timer is set at the factory to be sensitive to the typical range of sounds that occur at a Cowboy Action Shooting™ range. However, if the system needs to be reset, there is a small Philips screw on at the corner of the printed circuit board. Turning the screw clockwise increases sensitivity; turning it counter clockwise decreases sensitivity. Adjustments should only be made to this sensitivity setting if the unit is not working properly. Before making any adjustments, ensure that the unit does not have a depleted battery.

Fig.8 Here the PAR time is still set to 5.41 seconds, 9 shots were recorded over a period of 5.69 seconds. The time between the last shot and the PAR time was .28 seconds (.28 seconds after the 5.41 PAR time setting.)
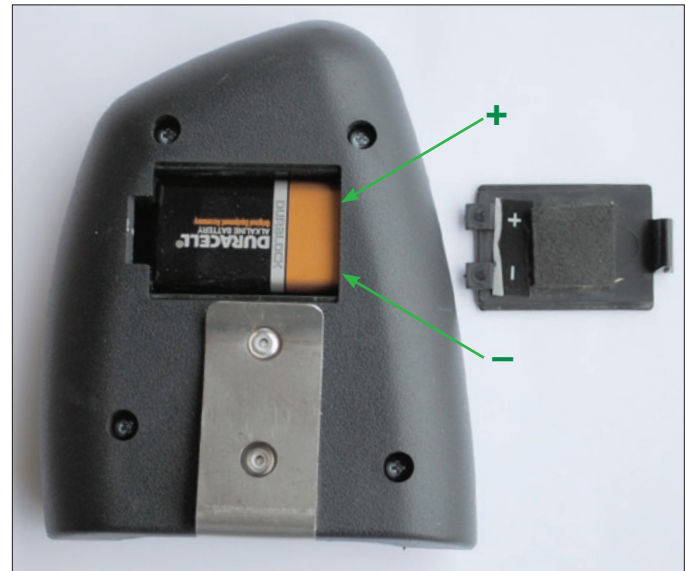

Fig.9 The bottom of the unit showing the access door to the battery compartment. The orientation of the battery terminals is not clearly marked on the standard Club Timer units. Note that the positive (+) terminal is closest to the butt end of the timer. (The + and - markings on the lid of this unit were installed by the author on the PRVC units only.)

The lid can be removed with the aid of a small screwdriver or knife, as can the battery. Turning the unit over and tapping it on the palm of the hand should also free the battery.

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