

Tricky Guy Special Effects Ltd.

Andale

The Andale is the latest project in a lineage of firing devices that accurately time and sequence air cannons and solenoids with other effects. This firing box has unique features; it operates in parallel (rather than in a series sequence) and each of the eight channel's Delay Time and On Time are programmed by the user.

The Andale is fired by holding down the FIRING BUTTON - causing the MAIN COUNTER to run. When the Main Counter reaches a channel's DELAY TIME, that particular channel fires and stays triggered until its ON TIME counts down to Zero, the channel then shuts off. The main counter continues to run, firing all the channels at the exact time and for the duration they were programmed. Each channel is completely independent of all others.

The Andale is perfect for sequencing effects that take different times to reach maturity i.e. an air cannon and a Z17 spark. If the two are wired together, the Z 17 will spark and a beat later the slow air cannon solenoid will fire. With the Andale the user programs the air cannon to fire 0.25 sec before the spark - to the camera, both effects appear at the same time. The possibilities are endless, hydraulic and pneumatic valves, electric actuators and motors can all be coordinated quickly and simply with the Andale.

The Andale is programmed in 1/100 increments, and accurate to 1/1000 of a sec. The sequence on the Indiglo LCD screen is written to an internal EEPROM memory that remembers the programmed sequence even if the unit is shut off or its batteries removed.

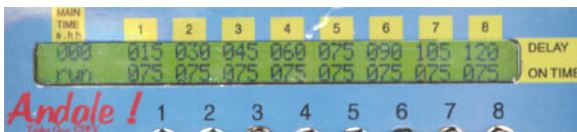
Multiple Andales can be hooked together and operate simultaneously, simply patch the Button banana plugs in parallel. Multiple units can use different power supplies - allowing the user to mix 12V and 120 V solenoids etc.



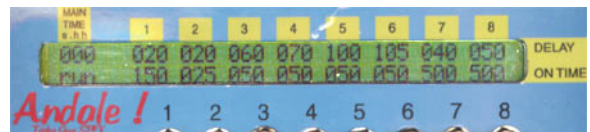
A setup for 8 air cannons could follow the following routine:

1. A power source for the solenoids would be selected, and wired into the Supply plugs.
2. Without charging the air cannons, the user would wire each cannon into the Andale.
3. A timing sequence would be determined by the user i.e. which cannon fires at what time.
4. The Andale is programmed by holding the SET switch up to SET DELAY and adjusting the Second and 1/100th Second Knobs until the desired DELAY TIME for a channel is displayed on the screen. The user then pushes the Black Button for the selected channel to input that time. A DELAY TIME is programmed this way in any order for all 8 channels.
5. The ON TIME is then set for each channel (it may well be the same time for all 8). The user holds the SET switch down to SET ON TIME and adjusts the displayed time until the desired ON TIME for a channel is displayed on the screen, that ON TIME can be input into the channel(s) by pressing the appropriate black button(s). [Steps 4&5 are interchangeable]
6. The Andale can now be ARMED and a test fire of the solenoids attempted by holding the firing button down.
7. All firing will stop immediately if the user releases the Firing Button. The Andale will resume the sequence from where it left off if the user again contacts the Firing Button.
8. Reset the unit at any time by pushing the SET switch in either direction - the Andale will revert to its previously programmed times.

(There is a cool way to get one Propane Canon to do multiple blasts, instead of depleting all of its fuel at once - call me)



This unit is set to sequence from channel 1 to 8 at 0.15 sec intervals, each channel will stay on for 0.75 seconds



This unit will sequence {1 and 2,7,8,3,4,5,6}, turned on for {1.50 and 0.25, 5.00,5.00, 0.50,0.50, 0.50, 0.50 seconds}

Stop doing effects with 8 buttons in your lap!

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