



Quick Draw Electronics

Shooting Sports Timer User Manual

Model TS1000



Rev. A July 2, 2008

WELCOME TO THE **QUICKDRAW ELECTRONICS SHOOTING SPORT TIMER.**

THE BASIC SYSTEM (TS1000-0001-1001) CONSISTS OF;

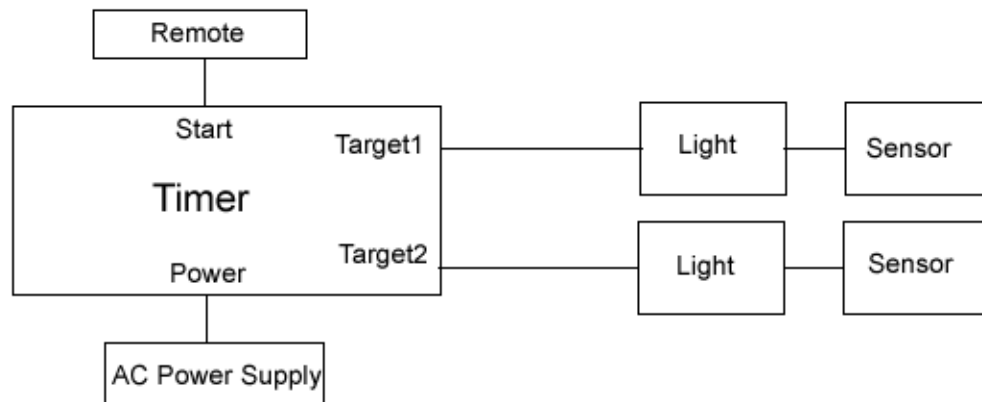
- 2 SOUND SENSORS
- 2 LIGHT ASSEMBLIES
- 1 TIMER BOX
- 2 TIMER TO LIGHT CABLES
- 2 SENSOR TO LIGHT CABLES
- 1 PUSHBUTTON
- 1 POWER CORD

THE TS1000-0001-1002 SYSTEM INCLUDES 2 TARGET ASSEMBLIES ALONG WITH THE COMPLETE TS1000-0001-1001 SYSTEM.

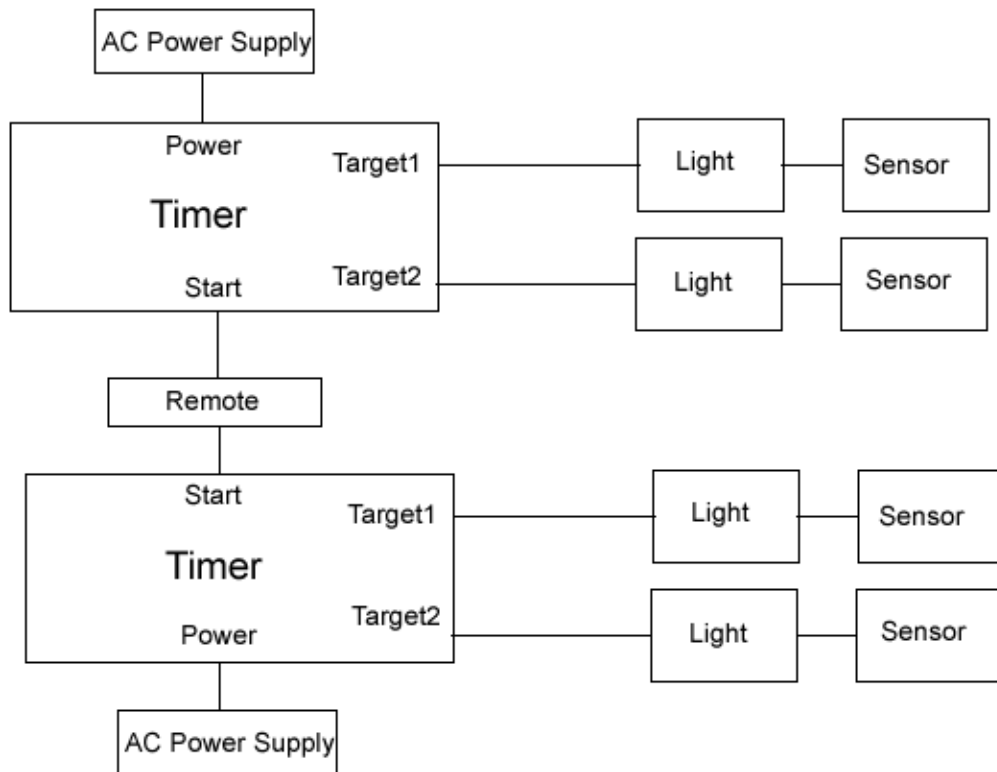
SETUP

SET UP IS QUICK AND EASY.

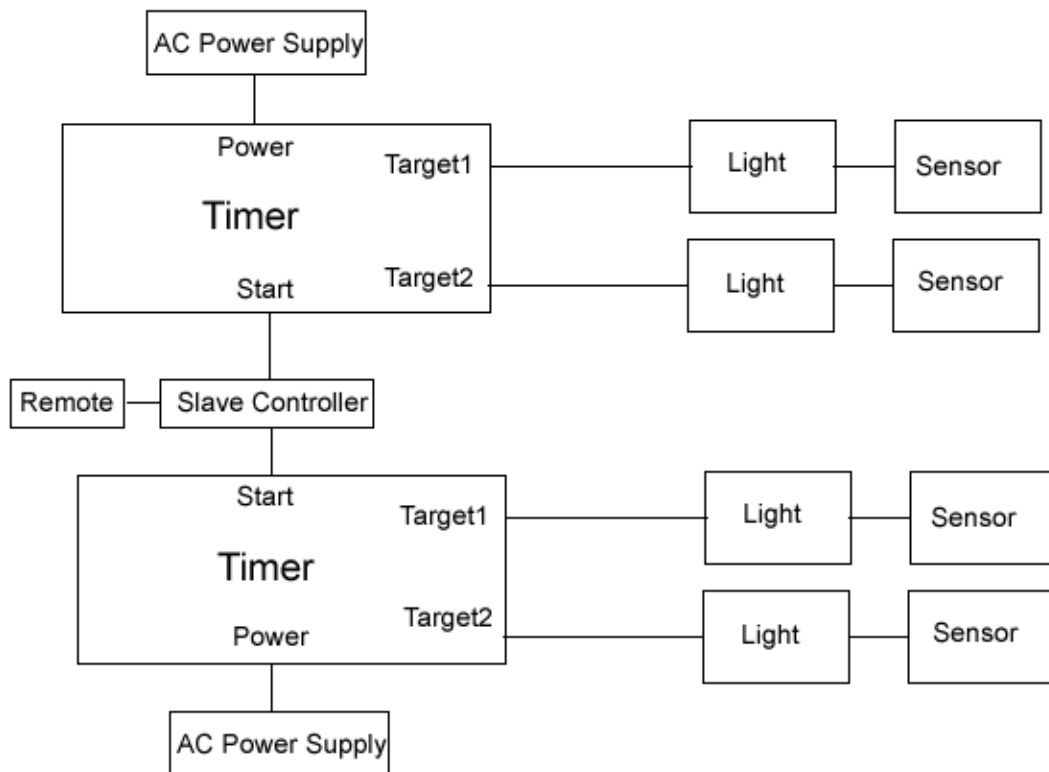
START BY ATTACHING A SOUND SENSOR AND A LIGHT ASSEMBLY TO THE BACK OF EACH TARGET. MAKE SURE THE LIGHTS ARE CLEARLY CENTERED ON THE TARGET WINDOW. PLUG IN THE SENSOR TO LIGHT CABLE TO EACH UNIT. PLUG ONE END OF THE LIGHT TO TIMER CABLE INTO THE LIGHT BOX – PLUG IN THE OTHER END TO THE BACK OF THE TIMER BOX. PLUG IN THE PUSHBUTTON JACK TO THE BACK OF THE TIMER BOX. PLUG IN THE POWER CORD TO THE POWER JACK ON THE BACK OF THE TIMER BOX – PLUG INTO POWER SOURCE. YOU ARE READY TO START!



Single Timer Setup



Dual Timer Setup



Dual Timer Setup with Slave Controller

MODES

NORMAL MODE

WHEN THE UNIT IS PLUGGED IN, IT WILL GO THROUGH A SELF TEST PROCESS. THE DIGITAL DISPLAY WILL RUN UNTIL IT REACHES 9.999. DURING THIS CYCLE TIME THE LIGHT BOXES WILL BE CONSTANTLY LIT. WHEN THE CYCLE IS COMPLETE THE LIGHTS WILL FLASH BRIEFLY AND THEN GO OUT. AT THIS POINT THE SYSTEM IS READY. TO START THE TIMER RANDOM DELAY, PRESS THE PUSHBUTTON AND RELEASE (THE DISPLAY WILL READ '0.000'). WHEN THE LIGHT ILLUMINATES THE TIMER STARTS. A HIT ON THE TARGET WILL STOP THE TIMER. IF YOU ARE SHOOTING WITH A SINGLE TARGET A HIT WILL CAUSE YOUR LIGHT to GO OUT, IF YOUR ARE SHOOTING WITH TWO TARGETS THE WINNING TARGET LIGHT WILL FLASH. TO RESTART SYSTEM – PRESS PUSHBUTTON.

PRACTICE MODE

TO TOGGLE TO THE PRACTICE MODE – HOLD THE PUSHBUTTON DOWN FOR 12 SECONDS – THE DISPLAY WILL READ ‘PPPP’. A DELAY BEGINS – THE SYSTEM WILL THEN SOUND A ‘BEEP’ (THIS WOULD BE THE SHOOTER SET SIGNAL) – AFTER A RANDOM DELAY, THE LIGHT WILL ILLUMINATE AND THE TIMER WILL BEGIN. A HIT ON THE TARGET WILL STOP THE TIMER – OTHERWISE THE TIMER WILL RUN TO 9.999 AND START THE CYCLE OVER AGAIN. THE RECYCLE DELAY DEPENDS ON THE NUMBER OF LIGHTS PLUGGED INTO THE TIMER. IF BOTH LIGHTS ARE PLUGGED IN, THE TIMER WAITS 16 SECONDS AND THEN RESTARTS THE CYCLE. IF ONE LIGHT IS PLUGGED IN THEN THE TIMER WAITS 4 SECONDS BEFORE STARTING THE CYCLE.

TO EXIT PRACTICE MODE AND GO TO SLAVE MODE, PRESS THE PUSHBUTTON FOR 12 SECONDS (UNTIL DISPLAY READS SSSS).

SLAVE MODE

TO TOGGLE TO THE SLAVE MODE, HOLD THE PUSHBUTTON DOWN FOR 12 SECONDS WHEN IN THE PRACTICE MODE. THE DISPLAY WILL READ SSSS. WHEN IN THE SLAVE MODE, THE TIMER WILL TURN ON THE LIGHTS AND START THE TIMER EXACTLY 2 SECONDS AFTER THE RELEASE OF THE REMOTE SWITCH. THE USER DETERMINES THE RANDOM DELAY TIME BY WAITING TO RELEASE THE REMOTE BUTTON. THE USER CAN CONCEAL THE REMOTE SWITCH FROM THE SHOOTERS SO THAT THEY CAN NOT ANTICIPATE THE ‘LIGHT ON’ EVENT. A HIT ON THE TARGET WILL STOP THE TIMER. IF YOU ARE SHOOTING WITH A SINGLE TARGET, A HIT WILL CAUSE YOUR LIGHT TO GO OUT. IF YOU ARE SHOOTING WITH TWO TARGETS, THE WINNING TARGET LIGHT WILL FLASH. THIS MODE IS INTENDED TO ALLOW MULTIPLE TIMERS TO BE SLAVED TOGETHER. AN OPTIONAL SLAVE CONTROLLER IS AVAILABLE TO AUTOMATE THE RANDOM PUSH BUTTON.

TO EXIT SLAVE MODE AND RETURN TO NORMAL MODE, PRESS THE PUSHBUTTON FOR 12 SECONDS (UNTIL DISPLAY READS 0.000).

BALLOON SWITCH OPERATION

WHEN THE TIMER IS USED WITH A BALLOON SWITCH, THE USER INSTALLS A BALLOON IN THE BALLOON TARGET AND THEN PRESSES THE START BUTTON. IF TWO BALLOON TARGETS ARE USED, THE WINNERS LIGHT WILL FLASH. A NEW BALLOON MUST BE INSTALLED IN THE BALLOON TARGET AFTER EACH SHOT. IF A BALLOON IS NOT PRESENT, THE TIMER ASSUMES THAT THE TARGET IS NOT PRESENT AND WILL NOT FLASH THE LIGHTS DECLARING A WINNER. THE BURSTING OF THE BALLOON SIGNALS THE TIMER TO STOP THE TIME.

OPTIONAL EQUIPMENT

THE OPTIONAL FOOT SWITCH MAY BE PLUGGED INTO THE TIMER BOX IN LIEU OF THE PUSHBUTTON.

THE OPTIONAL DC POWER CABLE MAY BE USED WITH AN AUXILLARY POWER UNIT/ OR BATTERY.

SLAVE CONTROLLER.

Options, Extras, and Spares

Description	Price Each
Timer System	\$399
Optional Foot Switch	\$49
Extra Hand Switch (Remote Start)	\$19
Extra Shot Sensor	\$29
Extra Light Box --- includes Sensor to Light Cable	\$99
Extra Balloon Switch Light Box	\$99
Target	\$150
Extra Light Box to Timer Cable -- 35 feet	\$29
Extra Sensor to Light Cable	\$6
Flip up Bale for Timer -- Tilts units for easy viewing on Bench	\$29
Extra AC Power Supply	\$19
Optional DC Power Adapter	\$12
Optional Storage Case	\$39