

X-Ring Pistol Range Control



X-Ring Pistol Works, LLC

1120 17th Street West
Billings, Montana 59102
[406] 534-9249

Operation of the X-Ring Range Control Unit

The standard unit is capable of controlling turning targets for NRA Precision Bullseye Pistol, International Standard, International Center Fire, and International Air Pistol. On this unit the Air Pistol is replaced with International Rapid Fire Pistol. It has a LCD readout which will report the discipline, course of fire, time limits and time remaining. The control has an additional "HORN" setting if there are no turning targets available. In this setting a horn will announce the beginning and end of each string. The control may be operated with either the front panel or the radio control keyfob.

The desired discipline is selected with the switch on the left side of the panel and the volume control is on the right. All other functions can be accessed through both the four button keyfob or the front panel. The front panel is well labeled so the following instructions are directed at using the keyfob. The front panel buttons will operate in the same fashion. All of the instructions are given assuming one is holding the keyfob with the key down in the palm of the hand. The arc of buttons is used for the timed shooting events. The top button turns the targets – if the targets are faced they will be edged, and if they are edged they will be faced. Using this button during a timed event will edge the targets and the event returning the control to the ready mode. Pressing the toggle/stop button once more will face the targets and allow the compressor to run. The left button is always Slow Fire. The lower button is Timed Fire in Precision and International Standard Pistol, and the rapid fire portion of International Center Fire. The right button starts Rapid Fire in Precision and International Standard Pistol and International Center Fire Pistol



control panel is The assume lower the they will cancel button

Conventional - Precision Pistol

The Range Officer (human) will state which event will be fired and the time limit. Then the targets are edged with the top button and the command to load is given. When the Range Officer sees that all are ready he will ask, "IS THE LINE READY?" If there is no response the appropriate button for that string of fire is pressed. The control will then complete the commands and face the targets for the proper time. If the commands need to be interrupted for any reason pressing the STOP button will cause it to stop and announce "AS YOU WERE!" This action will return the control to the ready mode with the targets remaining edged. When the Slow Fire stage time starts the unit will announce "COMMENCE FIRE". This is helpful when the fifty yard targets do not turn. If "HORN" is selected the horn will sound instead. At the end of the Slow Fire string the control will edge the targets and announce "CEASE FIRE". If all shooters have finished the number of shots ahead of the time allowed the STOP button may be pressed to end the string ahead of time. If it is a sustained fire event at the end of the string the targets will edge and the control will announce "CEASE FIRE" and then the Range Officer will ask for alibis. If there are none then the next string is fired in the same way or the toggle/stop button may be pressed to face the targets and allow the compressor to run.

International Standard Pistol

International Standard Pistol is very similar to Conventional Pistol with the exception of the commands, and the slow fire is shot in two 2 ½ minutes five shot strings. At no time shall any ammo be loaded in the magazines or cylinder until the command load is given. The Range Officer will state which event will be fired and the time limit. He will then press the desired button and the control will give the command "LOAD". At that time the magazines may be loaded and the pistol loaded and made ready to fire. There is one minute allowed for this. At the end of the one minute "ATTENTION" will be announced. At this time the targets will edge and seven seconds later they will be faced or the horn will sound to start the timed event. At the completion of the string the targets will edge and "CEASE FIRE – UNLOAD" will be announced. After a few seconds the targets are returned to the faced position ready for the next string. All international events start with the targets faced. All strings are five shots each.

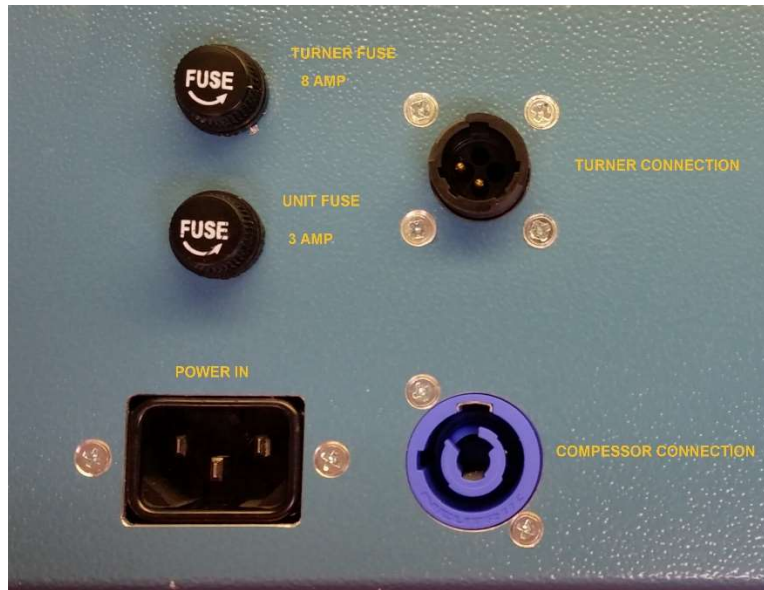
International Center Fire

The loading time and procedure is the same as in International Standard Pistol. The left button is for the Precision stage which is shot in two strings of 5 shots in five minutes for each string. In the Rapid Fire stage the targets are cycled through the string of 5 shots. They are edged for seven and faced for three during which time one shot is fired. At the end of the five shots the targets will face ready for the next string. Either the bottom or right button may be used to start a rapid fire string.

International Rapid Fire Pistol

The loading time and procedure is the same as in International Standard Pistol. The left button will select an eight second string, the lower a six second string and the right the four second string.

Installation of the X-Ring Range Control Unit



Technical Specifications

This control has a relay capable of ten amps to control the turning targets and will switch either AC or DC. The turner wiring is plugged into the left side of the control. The plug connections are 1=switch, 4=switch. The relay is rated at 10 amps and is protected with an 8-amp fuse. This is the upper fuse on the left side of the control. The compressor outlet is a heavy-duty relay and it is rated at 20 amps at 110 VAC. This is sufficient for most small compressors (one horsepower at 110VAC) that would likely be used for turning targets. This is provided to control the operation of a compressor so that it will not run while shooting is in preparation or in progress. The control will not allow the compressor to run anytime the targets are faced during a timed event, or when they are edged. It is not fuse protected and relies on external protection provided by the user for overload protection. If a larger compressor is used a motor contactor may be needed.

The unit should be positioned in such a way that the antenna is vertical and has a fairly unobstructed view of the keyfob.

The control's amplifier is capable of outputting 15 watts of power to the internal speaker. There is a control on the front panel to adjust the speaker volume. The only way to tell what the adjustment is doing is to adjust it while it is playing. There is a jack provided on the back panel for an external speaker.

WARRANTY

X-Ring Pistol Works, LLC warrants this unit to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase.

If the unit should malfunction, it must be returned to X-Ring for evaluation. Upon examination by X-Ring, if the unit is found to be defective it will be repaired or replaced at no charge. This WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive corrosion; or current, heat moisture or vibration; improper specification; misapplication, misuse or other operating conditions outside of X-Rings control. Components which wear are not warranted, including but not limited to contact points or fuses.

X-Ring Pistol Works is pleased to offer suggestions on the use of this product. However, X-Ring neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by X-Ring, either verbal or written. X-Ring warrants only that the parts manufactured by it will be as specified and free of defects.

X-RING MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

LIMITATION OF LIABILITY

The remedies of purchaser set forth herein are exclusive and the total liability of X-Ring with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall X-Ring be liable for consequential, incidental or special damages.

X-Ring Pistol Works, LLC
1120 17th Street West
Billings, Montana 59102
[406] 534-9249