

Orion National Air Rifle League  
Sporter Air Rifle Instructions  
and Range Commands



Sponsored by Shooter's Technology LLC, makers of the  
Orion Scoring System and Athena Electronic Scoring Target  
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# General Preparation

## Additional Support

This instruction manual is intended to provide supplemental information on using Orion, participating in the National Air Rifle League, and conducting a competition under the National Standard Three-Position Air Rifle Rules. This information does not replace Orion's User Manual, the League Program, or the National Standard Three-Position Air Rifle Rulebook.

For specific assistance regarding Orion or the League please contact Orion's support. Business hours are Monday through Friday, 09:00 to 18:00 EST, and Saturday 09:00 to 16:00 EST.

Phone Number: +1 703.596.0099

Support Email: [support@shooterstech.net](mailto:support@shooterstech.net)

League Email: [league@shooterstech.net](mailto:league@shooterstech.net)

Contact the League Administrator immediately if you have any special circumstances pertaining to your team's participation.

## Team Schedule

Games will be scheduled dynamically throughout the regular season. The first two weeks' schedule will be announced one week prior to the start of the league. After the first week the schedule for the third week will be released. After the second week the schedule for the fourth week will be released, and so on.

To view your team's schedule visit [www.orionscoringsystem.com/airrifleleague](http://www.orionscoringsystem.com/airrifleleague) and click on your team's name.

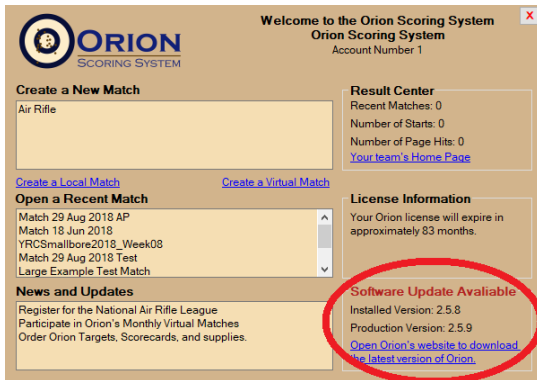
## Request an Extension to Turn in Scores

During the regular season, if you need an extension to turn in your scores for a weekly game, you may make the request at [shooters.technology/schedulechange](http://shooters.technology/schedulechange). The request must include a valid reason for the change, such as your team was unable to shoot due to inclement weather.

## Orion Software

To participate in a League game, always make sure you are running the most up to date version of the Orion software. When opening Orion check the bottom right corner of the Welcome Screen to see if there is a new version available.

If a new version is available click on the provided link to be taken to Orion's website to download and install the software.



## Favorites

Prior to the start of the season, add your team members to Orion's Athlete Database and mark each of them as Favorites. This step will make it easier to create your team in each league game.


Last Name	First Name	Middle Name	Display Name	Favorite	3 Pos Air Rifle Type	Gender	Birthdate	Email
Castillo	Mates		Castillo, Mates	<input checked="" type="checkbox"/>	Sporter	MALE	8/31/2018	mcastillo@school.net
Garcia	Camila		Garcia, Camila	<input checked="" type="checkbox"/>	Sportler	FEMA	8/31/2018	cgarcia@school.net
Garza	Sofia		Garza, Sofia	<input checked="" type="checkbox"/>	Sportler	FEMA	8/31/2018	sgarza@school.net
Gonzalez	Mariana		Gonzalez, Mariana	<input checked="" type="checkbox"/>	Sportler	FEMA	8/31/2018	mgonzalez@school.net
Hernandez	Gabriela		Hernandez, Gabriela	<input checked="" type="checkbox"/>	Sportler	FEMA	8/31/2018	ghernandez@school.net
Herrera	Santiago		Herrera, Santiago	<input checked="" type="checkbox"/>	Sportler	MALE	8/31/2018	sherrera@school.net
Lopez	Isabella		Lopez, Isabella	<input checked="" type="checkbox"/>	Sportler	FEMA	8/31/2018	ilopez@school.net
Martinez	Diego		Martinez, Diego	<input checked="" type="checkbox"/>	Sportler	MALE	8/31/2018	dmartinez@school.net
Perez	Mateo		Perez, Mateo	<input checked="" type="checkbox"/>	Sportler	MALE	8/31/2018	mperez@school.net
Rodriguez	Daniel		Rodriguez, Daniel	<input checked="" type="checkbox"/>	Sportler	MALE	8/31/2018	drodriguez@school.net
Romero	Samuel		Romero, Samuel	<input checked="" type="checkbox"/>	Sportler	MALE	8/31/2018	sromero@school.net
				<input checked="" type="checkbox"/>	Sportler	MALE	8/31/2018	

# Preparing for Your Game Each Week

## Downloading Your Game

The League Administrator will release the weekly games each Monday by 3:00 PM EST. An email will be sent to you once the game is available for download.

To download the game, open Orion. On the Welcome Screen click on the name of the game under Create a New Match.



**Welcome to the Orion Scoring System**

Orion Scoring System

Account Number 1

**Create a New Match**

Robinson at West Potomac for 25 - 31 Aug 2018 (Orion Scoring System)

[Create a Local Match](#)      [Create a Virtual Match](#)

**Open a Recent Match**

Match 29 Aug 2018 AP

Match 18 Jun 2018

YRCsmallbore2018\_Week08

Match 29 Aug 2018 Test

Large Example Test Match

**News and Updates**

Register for the National Air Rifle League  
Participate in Orion's Monthly Virtual Matches  
Order Orion Targets, Scorecards, and supplies.

**Result Center**

Recent Matches: 0  
Number of Starts: 0  
Number of Page Hits: 0  
[Your team's Home Page](#)

**License Information**

Your Orion license will expire in approximately 83 months.

**Your Software is Up to Date**

Installed Version: 2.5.9  
Production Version: 2.5.9

Click Yes to confirm that you want to download the game. Then click Yes again to have all of your Favorites added to the game under your team.

In the Match Competitors tab, confirm that your athletes were added and that each athlete is listed with your Team's Name.

Last Name	First Name	Middle Name	Competitor Number	Display Name	Shooter Database Link	Team	Athlete's Coach	Get
Castillo	Matias		108	Castillo, Matias (108)	Castillo, Matias	West Potomac	No Coach Listed	MAI
Garcia	Camilo		101	Garcia, Camilo (101)	Garcia, Camilo	West Potomac	No Coach Listed	FEM
Garza	Sofia		111	Garza, Sofia (111)	Garza, Sofia	West Potomac	No Coach Listed	FEM
Gonzalez	Mariana		106	Gonzalez, Mariana (1	Gonzalez, Mariana	West Potomac	No Coach Listed	FEM
Hernandez	Gabriela		104	Hernandez, Gabriela ...	Hernandez, Gabri	West Potomac	No Coach Listed	FEM
Herrero	Santiago		110	Herrero, Santiago (110)	Herrero, Santiago	West Potomac	No Coach Listed	MAI
Lopez	Isabella		105	Lopez, Isabella (105)	Lopez, Isabella	West Potomac	No Coach Listed	FEM
Martinez	Diego		103	Martinez, Diego (103)	Martinez, Diego	West Potomac	No Coach Listed	MAI
Perez	Mateo		107	Perez, Mateo (107)	Perez, Mateo	West Potomac	No Coach Listed	MAI
Rodriguez	Daniel		102	Rodriguez, Daniel (102)	Rodriguez, Daniel	West Potomac	No Coach Listed	MAI
Romero	Samuel		109	Romero, Samuel (109)	Romero, Samuel	West Potomac	No Coach Listed	MAI
**					Not Linked to the ...	Not a member of a T...	No Coach Listed	MAI

## Preparing Targets

Using printed barcode labels is encouraged for all teams. They should be printed prior to the start of each game. Coaches should maintain control of their team's targets until it is time to hand them out, as the athletes are bringing their gear to the firing line.

To print labels, from within Orion's Match Competitors tab, select all of your athletes, right click, and Print Labels.



# Range Commands for Athena for Clubs Electronic Scoring Targets

All range commands are built into Orion. Use Orion's Range Control tab to manage the range and issue commands to the athlete monitors.

With each Range Command click the Next Command button while vocalizing the command to your athletes.

## Range Commands for 12 Bull Paper Targets

All range commands are reproduced, with permission, from the National Three-Position Air Rifle Council's rulebook.

Before a competition, the Range Officer must prepare the range for firing. Athletes may not move their equipment to the firing line until the Range Officer calls them to the firing line.

Recommended the Range Officer display the online Leaderboard using a projector or large screen TV on the range.

**20:00 TO 30:00 MINUTES BEFORE START TIME (WHEN RECORD FIRING BEGINS)**

The Range Officer begins each relay by calling athletes to the firing line and then welcoming them to the competition.

If paper targets are used the coach should hand them out at this time. When athletes are asked to go downrange to hang their targets, all rifles must be grounded with actions open and Safety Flags inserted before anyone goes down range.

If electronic targets are used or if targets are already hung, do not use the command GROUND YOUR RIFLES, but go directly to the YOU MAY UNCASE AND HANDLE YOUR RIFLES command.

*WELCOME TO THE NATIONAL AIR RIFLE LEAGUE, TODAY'S COMPETITION IS AGAINST (Opposing Team's Name) FROM (Opposing Team's Location).*

*RELAY NUMBER (Relay Number) YOU MAY MOVE YOUR RIFLES AND EQUIPMENT TO THE FIRING LINE...GROUND YOUR RIFLES*

**IF ATHLETES AND/OR COACHES ARE GOING DOWNRANGE TO HANG TARGETS**

*IS THE LINE CLEAR?*

Range Officers must signal YES or NO to indicate that all rifles are grounded with Safety Flags inserted.

*THE LINE IS CLEAR...GO FORWARD AND HANG YOUR TARGETS*

Coaches, athletes or target handlers may go downrange to hang targets. No one may handle rifles while personnel are downrange.

**AFTER ALL TARGETS ARE HUNG AND ALL PERSONNEL ARE BACK FROM DOWNRANGE**

*YOU MAY UNCASE AND HANDLE YOUR RIFLES*

When the UNCASE AND HANDLE YOUR RIFLES command is given, athletes must orient gun cases so that rifle muzzles are pointed downrange when they come out of the case.

*TAKE YOUR POSITIONS*

The TAKE YOUR POSITIONS command should be given at least 15 minutes before the Start Time (the time when Record firing starts) and allow a minimum of five minutes for athletes to prepare. After being

instructed to take their positions, athletes may set up their equipment, take their prone positions and do holding and aiming exercises. Safety Flags may not be removed.

If the opposing team's coach sent a welcoming letter it may be read at this time.

**AFTER A MINIMUM OF 5:00 MINUTES**

***PREPARATION AND SIGHTING TIME... TIME LIMIT 8 MINUTES...START***

This is a combined Preparation and Sighting Time. During this period, athletes may get into their firing positions, remove Safety Flags and dry fire or fire sighting shots. If athletes are new to this procedure, the Range Officer may explain that the command START authorizes them to load and begin firing when they are ready.

***30 SECONDS***

The Range Officer gives a 30 second warning after 7 minutes, 30 seconds.

**AFTER 8:00 MINUTES**

***SIGHTING SHOTS...STOP***

After the command STOP between the Sighting and Record stages, rifles may remain loaded and in position ready for the Record Fire START command.

If electronic targets are used, there must be a pause while the computer officer resets the targets from sighter to record.

***10 RECORD SHOTS IN A TIME LIMIT OF 10 MINUTES...START***

*During the Postseason only, the command is, "20 RECORD SHOTS IN A TIME LIMIT OF 20 MINUTES ... START"*

The time limit begins when the command START is given.



*FIVE MINUTES*

*TWO MINUTES*

The Range Officer gives five and two minute warnings.

**AFTER 10 MINUTES (20 MINUTES IN POSTSEASON)**

*STOP—UNLOAD*

When the STOP—UNLOAD command is given, all athletes must insert Safety Flags and ground their rifles.

*IS THE LINE CLEAR?*

Range Officers must signal YES or NO to indicate that all rifles are grounded with Safety Flags inserted.

*THE LINE IS CLEAR...GO FORWARD AND CHANGE TARGETS*

Coaches, athletes or target handlers may go downrange to hang targets. No one may handle rifles while personnel are downrange.

If electronic targets are used and it is not necessary to go downrange to repair targets, the Range Officer can pause one or two minutes after the STOP— UNLOAD command and then go directly to the TAKE YOUR POSITIONS command.

**AFTER ALL TARGETS ARE CHANGED AND ALL PERSONNEL ARE  
BACK FROM DOWNRANGE**

If paper targets are used the Range Officers should collect all prone targets at this time.

*TAKE YOUR POSITIONS, YOUR FIVE MINUTE  
CHANGEOVER TIME FOR THE STANDING POSITION  
BEGINS NOW*

After being instructed to take their positions, athletes may change their equipment, take their standing positions, remove Safety Flags and dry fire.

**AFTER 5:00 MINUTES**

*STANDING POSITION SIGHTING STAGE...TIME LIMIT FIVE MINUTES...START*

This is a combined Preparation and Sighting Stage. During this period, athletes may get into their firing positions, remove Safety Flags and dry fire or shoot sighting shots.

*30 SECONDS*

The Range Officer gives a 30 second warning after 4 minutes, 30 seconds.

**AFTER 5:00 MINUTES**

*SIGHTING SHOTS...STOP*

After the command STOP between the Sighting and Record stages, rifles may remain loaded and in position ready for the Record Fire START command.

If electronic targets are used, there must be a pause while the computer officer resets the targets from sighter to record.

*10 RECORD SHOTS IN A TIME LIMIT OF 15 MINUTES...START*

*During the Postseason only, the command is, "20 RECORD SHOTS IN A TIME LIMIT OF 25 MINUTES ... START"*

The time limit begins when the command START is given.

*FIVE (5) MINUTES*

*TWO (2) MINUTES*

The Range Officer gives five and two minute warnings.

**AFTER 10:00 MINUTES (25 MINUTES IN POSTSEASON)**

*STOP—UNLOAD*

When the STOP—UNLOAD command is given, all athletes must insert Safety Flags and ground their rifles.

### *IS THE LINE CLEAR?*

Range Officers must signal YES or NO to indicate that all rifles are grounded with Safety Flags inserted.

### *THE LINE IS CLEAR...GO FORWARD AND CHANGE YOUR TARGETS*

Coaches, athletes or target handlers may go downrange to hang targets. No one may handle rifles while personnel are downrange.

If electronic targets are used and it is not necessary to go downrange to repair targets, the Range Officer can pause one or two minutes after the STOP— UNLOAD command and then go directly to the TAKE YOUR POSITIONS command.

### **AFTER ALL TARGETS ARE CHANGED AND ALL PERSONNEL ARE BACK FROM DOWNRANGE**

If paper targets are used the Range Officers should collect all standing targets at this time.

### *TAKE YOUR POSITIONS, YOUR FIVE MINUTE CHANGEOVER STAGE FOR THE KNEELING POSITION BEGINS NOW*

After being instructed to take their positions, athletes may change their equipment, take their kneeling positions, remove Safety Flags and dry fire.

### **AFTER 5:00 MINUTES**

### *KNEELING POSITION SIGHTING STAGE...TIME LIMIT FIVE MINUTES...START*

This is a combined Preparation and Sighting Stage. During this period, athletes may get into their firing positions, remove Safety Flags and dry fire or fire sighting shots.

### *30 SECONDS*

The Range Officer gives a 30 second warning after 4 minutes, 30 seconds.

## AFTER 5:00 MINUTES

### *SIGHTING SHOTS...STOP*

After the command STOP between the Sighting and Record stages, rifles may remain loaded and in position ready for the Record Fire START command.

If electronic targets are used, there must be a pause while the computer officer resets the targets from sighter to record.

### *10 RECORD SHOTS IN A TIME LIMIT OF 10 MINUTES...START*

*During the Postseason only, the command is, "20 RECORD SHOTS IN A TIME LIMIT OF 20 MINUTES ... START"*

The time limit begins when the command START is given.

### *FIVE (5) MINUTES*

### *TWO (2) MINUTES*

The Range Officer gives five and two minute warnings.

## AFTER 10:00 MINUTES (20 MINUTES IN POSTSEASON)

### *STOP—UNLOAD*

When the STOP—UNLOAD command is given, all athletes must insert Safety Flags and ground their rifles.

### *IS THE LINE CLEAR?*

Range Officers must signal YES or NO to indicate that all rifles are grounded with Safety Flags inserted.

### *THE LINE IS CLEAR...GO FORWARD AND REMOVE YOUR TARGETS*

Coaches, athletes or target handlers may go downrange to remove targets. No one may handle rifles while personnel are downrange.

**AFTER ALL TARGETS ARE REMOVED AND ALL PERSONNEL ARE  
BACK FROM DOWNRANGE**

If paper targets are used the Range Officers should collect all kneeling targets at this time.

*ATHLETES, YOU MAY REMOVE YOUR EQUIPMENT FROM  
THE FIRING LINE*

*YOU MAY DISCHARGE AIR OR GAS DOWNRANGE*

Athletes are instructed to remove their equipment from the firing line to prepare for the next relay of athletes. Athletes who wish to case their rifles before removing them from the firing line are authorized to close the rifle actions and discharge air or gas before casing them.

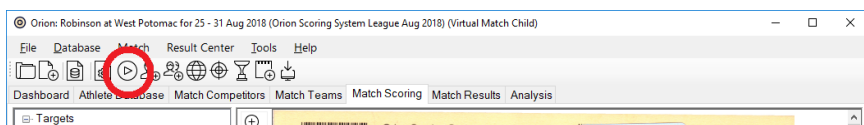
If there are additional relays of athletes to fire, the Range Officer returns to the welcome and call to the firing line for the next relay according to the scheduled start time for that relay.

# Scoring Paper Targets

All weekly game scores are due Monday at Noon EST. Scores reported after this time will not be accepted.

## Scoring

All paper targets must be scored by Orion as soon as reasonably possible after the athletes turn in their targets. Use Orion's Auto-Score to scan, score, and upload results.



If electronic targets were used scores must be imported into Orion. Athena imports the scores directly into Orion without any additional steps. For Sius or MegaLink systems, use their respective interfaces.

## Reviewing Targets

All paper targets should be reviewed for accurate scoring. Targets highlighted in Yellow indicate too many or too few shots were found. Common causes and the steps to follow are listed below

### Possibility 1: The Athlete Fired an Extra Shot

1. Identify the highest value shot on the target.
2. Select this shot, the shot will turn red once selected.
3. Right click and select "Mark as extra shot."
4. Orion will nullify the extra shot then apply a 2 point penalty to the lowest value shot.

### Possibility 2: Sighter Outside the Sighter Ring

Sighter shots fired outside the sighter ring should have been marked by the range officer. These shots do not count against the athlete, and should be removed.

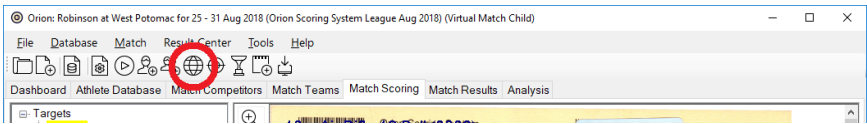
1. Identify the sighter shot outside the scoring ring.
2. Select this shot, the shot will turn red once selected.
3. Right click and select "Remove shot" (alternatively hold down the shift key and double-click near the center of the sighter shot).
4. Orion will remove the shot from the match.

### **Possibility 3: Athlete Missed the Scoring Rings**

1. Identify the aiming bull that the athlete missed.
2. Right click near the center of the aiming bull and select Add Shot  
-> Missed Shot (alternatively hold down the Control key and double-click near the center of the aiming bull).
3. Orion will add a MISS to the aiming bull.

### **Viewing Results**

Once scoring is complete, confirm that your team results were uploaded successfully to Orion's Result Center. Click on the globe icon to bring up the Internet results.



The Game results page will look similar to the following. If you can see your team results on the website, and they match what is reported in Orion, then your scores were successfully uploaded and reported.

## Robinson at West Potomac

[Result Center's Home](#)
[Recent Competitions](#)
[Upcoming Matches](#)
[Team Home Pages](#)
[✉ Join Orion's Email List](#)

[Orion Scoring System's Home](#)
[Recent Results](#)
[Upcoming Matches](#)

[Orion Scoring System League Aug 2018](#)
[Tools](#)

### Robinson

Represents: [Orion Scoring System](#)  
 Current Record: 0 - 0  
 Season Average: 0.00  
 Game Score: 974

### West Potomac

Represents: [Orion Scoring System](#)  
 Current Record: 0 - 0  
 Season Average: 0.00  
 Game Score: 980

### Robinson (0 - 0) 974 at 980 West Potomac (0 - 0)

Rank	Participant	Region	Prone	Standing	Kneeling	Team
1	West Potomac	Port Clinton, OH	0 - 0	0 - 0	0 - 0	980 - 9
	Romero, Samuel (109)		77 - 0	82 - 0	79 - 1	238 - 1
	Garcia, Camila (101)		75 - 0	82 - 2	79 - 0	236 - 2
	Gonzalez, Mariana (106)		76 - 0	83 - 0	75 - 0	234 - 0
	Herrera, Santiago (110)		78 - 1	76 - 1	81 - 2	235 - 4
	Castillo, Matias (108)		76 - 1	74 - 0	81 - 1	231 - 2
	Hernandez, Gabriela (104)		80 - 0	76 - 0	75 - 1	231 - 1
	Garza, Sofia (111)		80 - 0	76 - 0	74 - 0	230 - 0
	Robinson		81 - 0	69 - 1	82 - 1	974 - 10
	Rodriguez, Daniel (102)		87 - 1	86 - 2	85 - 1	258 - 4
	Martinez, Diego (103)		78 - 0	83 - 1	83 - 2	244 - 3
2	Perez, Mateo (107)	Port Clinton, OH	78 - 1	84 - 0	78 - 0	240 - 1
	Lopez, Isabella (105)		81 - 0	69 - 1	82 - 1	232 - 2

25 - 31 Aug 2018



**ORION**  
 SCORING SYSTEM

