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› [Do All Outdoors](#) /

› Do All Outdoors Raven Automatic Clay Pigeon Thrower Instruction Manual

Do All Outdoors Raven (RAV1A)

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Model: Raven (RAV1A)

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation, setup, and maintenance of your Do All Outdoors Raven Automatic Clay Pigeon Thrower. Please read this manual thoroughly before using the device to ensure proper function and to prevent injury or damage.

The Raven Automatic Clay Pigeon Thrower is designed to enhance your shooting experience by providing consistent and accurate clay target launches. It features a 75-clay target capacity, adjustable throwing angles, and a convenient foot pedal launch system for ease of use.



Figure 1: Overview of the Raven Automatic Clay Pigeon Thrower.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death. Always exercise extreme caution when operating the clay pigeon thrower.

- Always wear appropriate eye and ear protection when operating or in the vicinity of the thrower.
- Ensure the firing zone is clear of all personnel, animals, and obstructions before launching targets.
- Never place hands or any body part near the throwing arm or moving parts when the thrower is connected to a power source.
- Disconnect the power source (12V battery) before performing any maintenance, adjustments, or loading/unloading clay pigeons.
- Keep children and unauthorized persons away from the thrower at all times.
- Use only standard clay pigeons designed for automatic throwers. Inspect clays for damage before loading.
- Operate the thrower on stable, level ground to prevent tipping.
- Do not modify the thrower in any way. Use only manufacturer-approved accessories.

- Ensure proper ventilation when charging or storing the 12V battery.

PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking:

- Raven Automatic Clay Pigeon Thrower Unit
- 25 ft Foot Pedal Cord
- Integrated Wheels and Pull Handle
- User Manual (this document)

Note: A 12V battery is required for operation and is sold separately.

SETUP INSTRUCTIONS

1. **Unpacking and Placement:** Carefully remove the thrower from its packaging. Place the unit on a firm, level surface in the desired shooting location. Ensure there is ample clear space for clay target flight and safe operation. The integrated wheels and pull handle facilitate easy transport to your chosen spot.



Figure 2: The Raven thrower featuring integrated wheels and a pull handle for easy transportation.

2. **Battery Connection:** Connect a fully charged 12V battery (not included) to the thrower's power terminals. Ensure correct polarity: positive (+) to positive and negative (-) to negative. Secure the connections firmly.

The Raven electric clay pigeon thrower requires a 12V battery (sold separately).

3. **Foot Pedal Cord Connection:** Plug the 25 ft foot pedal cord into the designated port on the thrower. Position the foot pedal in a safe location, away from the throwing arm's path, allowing the operator to maintain a safe distance from the machine.



Figure 3: The 25 ft detachable foot pedal launch system.

4. **Loading Clay Pigeons:** Carefully load up to 75 standard clay pigeons into the magazine. Ensure they are stacked correctly and are free from cracks or damage. Damaged clays can cause misfires or damage to the thrower.



Figure 4: Loading clay pigeons into the thrower's magazine.

1. **Power On:** Once the battery and foot pedal are connected, the thrower is ready for operation. There may be a power switch; ensure it is in the "ON" position if present.
2. **Adjusting Throwing Angle:** The Raven thrower allows for adjustment of the throwing plane from 5 to 35 degrees. Refer to the adjustment mechanism on the unit to set your desired trajectory. Always disconnect power before making adjustments.
3. **Launching Targets:** With the firing zone clear and all safety precautions observed, press the foot pedal to launch a clay pigeon. The thrower has a rapid 2.5-second recycle time, allowing for quick follow-up shots.



Figure 5: The Raven thrower in action, launching a clay target.

4. **Continuous Operation:** The thrower will automatically feed the next clay pigeon after each launch, provided the magazine is loaded.
5. **Power Off:** When finished, disconnect the 12V battery from the thrower. This prevents accidental activation and conserves battery life.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Raven Clay Pigeon Thrower.

- **Cleaning:** After each use, especially in dusty or muddy conditions, wipe down the thrower with a damp cloth. Remove any clay residue from the throwing arm and feeding mechanism. Ensure all moving parts are free of debris.
- **Lubrication:** Periodically apply a light lubricant to pivot points and moving parts as recommended by the manufacturer (refer to any specific instructions on the unit itself).
- **Battery Care:** Keep your 12V battery charged and stored in a cool, dry place. Avoid fully discharging the battery, as this can reduce its lifespan.
- **Clay Pigeon Quality:** For best results and to minimize wear on the thrower, it is recommended to use high-quality clay pigeons such as White Flyer. Avoid using old or damaged clays, as they can break prematurely in the machine or cause jams.



Figure 6: Using quality clay pigeons like White Flyer is recommended for optimal performance.

- **Storage:** Store the thrower in a dry, protected area when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Thrower does not activate when foot pedal is pressed.	1. Battery not connected or low charge. 2. Foot pedal cord loose or damaged. 3. Power switch (if applicable) is off.	1. Check battery connections and ensure battery is fully charged. 2. Securely connect the foot pedal cord; inspect for damage. 3. Turn on the power switch.
Inconsistent or weak throws.	1. Low battery charge. 2. Damaged or wet clay pigeons. 3. Obstruction in throwing path or mechanism.	1. Recharge or replace battery. 2. Use dry, undamaged clay pigeons. 3. Disconnect power and clear any obstructions.
Clay pigeons are not feeding properly.	1. Magazine improperly loaded. 2. Damaged or non-standard clay pigeons. 3. Debris in the feeding mechanism.	1. Reload clays, ensuring they are stacked correctly. 2. Use standard, undamaged clay pigeons. 3. Disconnect power and clear any debris from the feeding mechanism.

If you encounter issues not listed here, or if the problem persists after attempting the suggested solutions, please contact Do All Outdoors customer support.

PRODUCT SPECIFICATIONS

Model Name	Raven
Model Number	RAV1A
Dimensions (LxWxH)	52 x 32 x 51 inches
Item Weight	45.5 lbs
Material	Alloy Steel

Color	Black/Orange
Clay Target Capacity	75 standard clay targets
Throwing Distance	55+ yards
Adjustable Throwing Angle	5 - 35 degrees
Power Source	12V Battery (sold separately)
Foot Pedal Cord Length	25 ft
Recycle Time	2.5 seconds
Compatibility	Do All Outdoors Wobbler Kit, Wireless Remote, SmartShot Bluetooth Voice Controller
UPC	850022469794

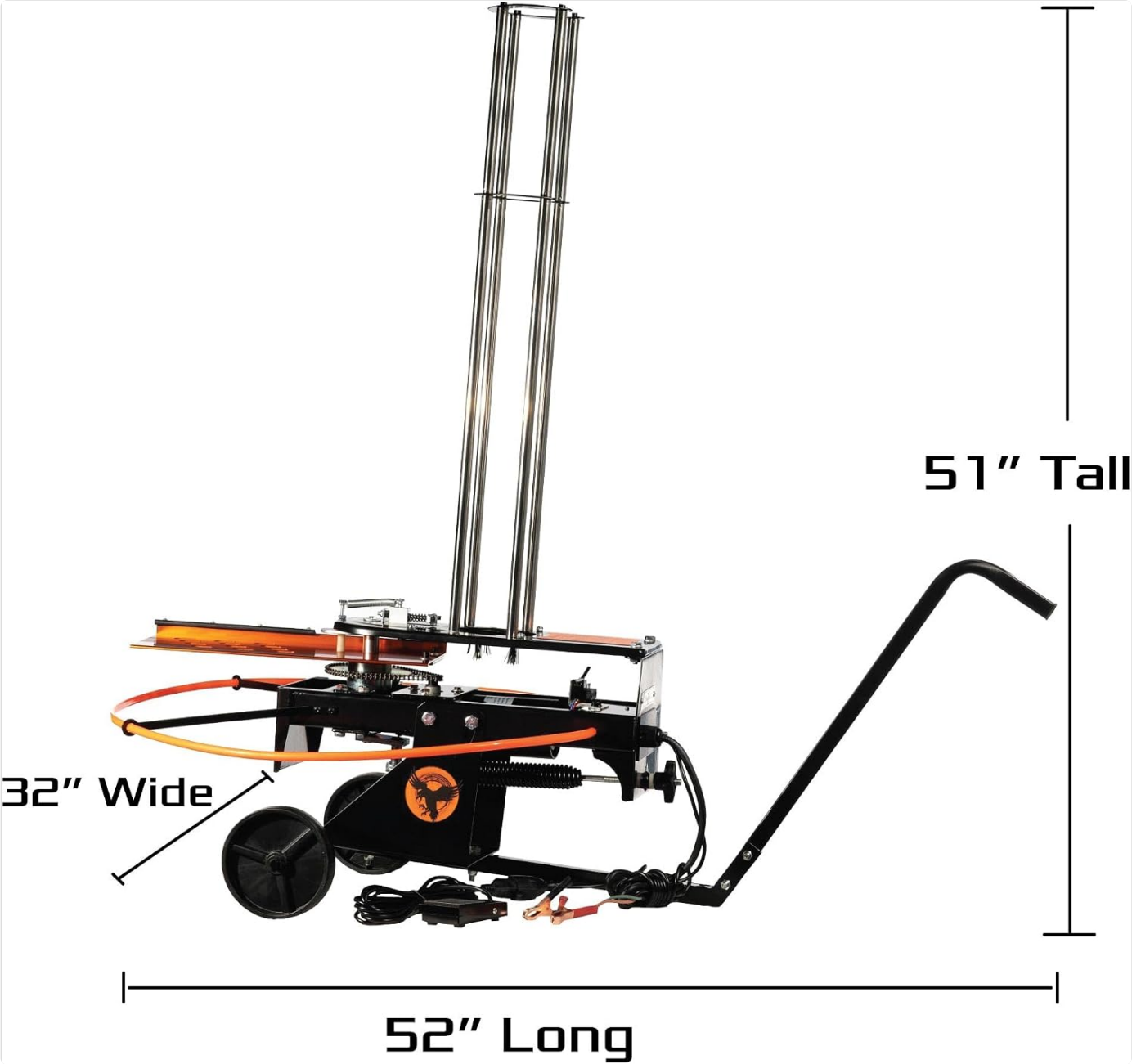


Figure 7: Side view of the Raven Clay Thrower with approximate dimensions.

WARRANTY INFORMATION

For detailed warranty information regarding your Do All Outdoors Raven Automatic Clay Pigeon Thrower, please refer to the manufacturer's official warranty statement. This information is typically included with your product packaging or available on the Do All Outdoors official website.

The product specifications indicate "Warranty Description: See Manufacturer".

CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your Do All Outdoors Raven Automatic Clay Pigeon Thrower, please contact Do All Outdoors customer support.

Visit the official [Do All Outdoors Store on Amazon](#) or their official website for contact information and additional resources.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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