

Operator's Manual

AND WARRANTY





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Product Identification

POULTRY HAWK COMPONENTS



CONTROL PANEL



PROXIMITY SWITCH



DRIVE WHEEL ASSEMBLY



INSIDE THE CONTROL PANEL

Control Board: IPPT-CONBD-007







TROLLEY DUMPING BASKET



RAIL SYSTEM









Specifications

POULTRY HAWK BASKET

Length	60 inches		
Width	20 inches		
Depth	Dumping basket	Fixed basket	
	10 inches	6 inches	
Weight capacity	450 pounds		

TRACK AND TROLLEY HEIGHT





The top of basket is 91 ½ inches below the ceiling, when the long arms are in use and the basket is fully extended.

The distance from the floor to the top of the basket when it is fully extended varies depending on the height of the ceiling. Here are some common examples:

- $10 \frac{1}{2}$ ceiling w/ no litter 34" from floor to top of basket
- 11' ceiling w/ no litter 40" from floor to top of basket
- 11 ¹/₂' ceiling w/ no litter 46" from floor to top of basket

Safety

UNDERSTANDING THE SAFETY LABELS

Safety labels are located on each end of the trolley basket.

SAFETY FEATURES

Located on the control panel is an emergency button. Pushing this button accomplishes two things. First, when this button is pushed, the basket will open; and second, the trolley will stop traveling.

SAFETY PRECAUTIONS

A. **Do not ride!** The Poultry Hawk is not intended for people to ride in. Doing so, may result in injury and may also do damage to the trolley itself.



- B. The dumping basket has several pinch points. Keep hands away!!
- C. When attempting to install or remove the trolley basket, **do not lift the trolley off the track.**
- D. If you need to remove the Poultry Hawk from the track, use extreme caution. The Hawk is somewhat top-heavy, so be careful.
- E. **Be sure to bolt an end stop** into place whenever a section of rail is removed. For example: whenever a bridge is removed at a divider curtain, secure an end stop in place on the side of the curtain toward the Poultry Hawk in order to prohibit the Hawk from running off the track.

Operating the Poultry Hawk

UNDERSTANDING THE KEY FOB

- 1. The fob has 5 buttons (Figure 3).
 - A. Button 1 (B1). This button will stop the Hawk's movement along the track. It is also the button for closing the dump. When the dump is unplugged and another attachment is plugged into the auxiliary plug, button 1 will turn the attachment off.
 - B. Button 2 (B2). When you stand facing the front of the control panel, button 2 will cause the Hawk to move to your right.
 - C. Button 3 (B3). This button opens the dump. If you are operating an attachment other than the dump, button 3 turns on the attachment.
 - D. Button 4 (B4). When you stand facing the front of the control panel, button 4 will cause the Hawk to move to your left.
 (You can override the Poultry Hawk's proximity switch by holding down on Buttons 2 or 4.)
 - E. Button 5 (B5) is the center button. This button is used for operating the track diverting system.
- 2. A new key fob is pictured in figure 4. The buttons are labeled, clarifying their function.

USING THE KEY FOB

- 1. The key fob will give direction to the Poultry Hawk up to a distance of 1000 ft.
- 2. When you are ready to begin using the Poultry Hawk, simply press the button on the fob that moves the Hawk in the direction you wish to move. You may stop and start the Hawk as often as you wish.



Figure 3: Units 1–328



Figure 4: Units 329 and up

THE SPEED CONTROL

The Purpose of speed control

The speed control, located on the side of the control box, allows for the speed of travel to be set suitable to the project being done.

Adjusting the speed control

To adjust the speed, simply turn the dial clockwise to increase the speed and counterclockwise to decrease the speed.



USING THE MAGNETIC STOP

Magnetic Stop

The magnetic stop should be placed on the side of the track facing the Poultry Hawk proximity switch. It may be placed on the track wherever you want the Poultry Hawk to stop when it arrives there. Place the stop on the track with the magnets on the bottom of the stop.

Proximity Switch

The proximity switch serves to stop the Poultry Hawk when it senses a magnetic stop. It works for either direction of travel.



THE EMERGENCY STOP BUTTON

This button's function is for safety and for protecting your investment.

- **Safety:** The dump basket has several pinch points that potentially can be harmful. If you, someone else, or something is being pinched by one of these points, push the Emergency Stop button in. The dump will begin opening, releasing these pinch points.
- **Protection:** The Emergency Stop button also serves to stop the Poultry Hawk from traveling. If your remote ceases to operate or you are not able to reach the remote quickly enough, push the Emergency Stop button in. The Poultry Hawk will stop.



Emergency

• To reset the Emergency Stop button, twist it clockwise, and it will snap back into set position.

PREPARING THE BASKET FOR OTHER USES

The Poultry Hawk can help with multiple chores within the poultry house. Here are some guidelines to follow when preparing the unit for these chores.

- **Do not** extend the sides of the basket.
- Be sure to unplug the basket.
- An auxiliary plug (black plug end) is provided to power attachments designed for the Poultry Hawk.

PREPARING THE POULTRY HAWK FOR CLEAN OUT

(Two people are needed to remove or install the basket)

Removing the basket

- Unplug the dumping basket from the trolley.
- Release both pop pins at the bottom of the trolley arms.
- Slide the basket down and out away from the trolley arms.

Raising the trolley arms

- Fold up the arm opposite the control panel first.
- Release the pop pin and swing up the arm until the pin pops into place
- Next, release the pop pin on the arm with the control panel and swing the arm up until that pin holds it into place.
- The unit will travel even when the arms are folded up.

Installing the basket

- Be sure the pop pins at the bottom of the trolley arms are in the lock out position.
- Insert the basket arms into the trolley arms and slide upward to the desired height. Be careful that you do not lift the trolley off the track during this step.
- Be sure the pop pins have snapped securely into position before letting go of the basket.
- Plug the dump basket into the trolley. The basket wire plugs into the matching gray wire end coming from the trolley control panel.

UNDERSTANDING AND USING THE POWER SWITCH.

The power switch has three positions, on-off-charge.

- Be sure to switch to the "off" position when storing your Poultry Hawk. This is advisable when not using the Poultry Hawk for an extended period of time.
 - Be aware that if the switch is left "on" your battery will slowly drain over time.
 - Battery life is shortened when a battery has less than 12-volts over an extended period.
- Place the switch in the "on" position when you need to run the unit.
- Place the switch in the "charge" position when you need to charge the battery.

Maintaining the Poultry Hawk

The Poultry Hawk requires very little maintenance. Following the steps below will extend the life of the unit.

- When washing the unit avoid spraying water directly onto the control panel. While the panel is water resistant, it is not advisable to spray water on it directly.
- Once a year, grease the pivot points at the bottom of the wheel mounts by pumping grease into the grease zerks located at the bottom of the mount shaft on unit's serial number 298 and up. For unit's serial number 1-297 spray a liquid grease onto the mount shaft.
- Regularly check the drive shaft and drive wheel for any sign of the wheel shaft sliding off the gearbox shaft.

Charging the Poultry Hawk

The Poultry Hawk uses a 12-volt, deep cycle, marine battery. You need to provide this yourself. A charger, however, is provided with the hawk. The battery does not need to be charged after every use, but the voltage meter should show at least 12 volts when the unit is not in use. In order to maintain battery life, charge the battery if the meter shows below 12 volts.



Red/Green: no connectio Red: charging Green: fully charged

Rail System Installation

RAIL BRACKET USAGE

Truss bracket

- Wood truss: Use two structural screws (provided) to fasten this bracket to the bottom of the truss. A third screw may be used if a firm hold was not attained with the first two screws. Most times the third screw is not necessary.
- Metal truss: This bracket is intended for use in poultry barns built using metal trusses.

J-bracket =

• The J-bracket is bolted to the truss bracket using a $\frac{5}{16} \times \frac{34}{14}$ inch flange bolt and nut. Be sure to tighten.

90° Extension bracket

• The extension bracket serves two purposes. First, it turns the J-bracket 90 degrees in order for the J-bracket to be oriented correctly for the rail across the ends of the poultry house. Second, it is used to extend the J-bracket lower to accommodate any rise in the ceiling that may occur, especially across the end of a poultry house. These brackets can easily be cut to the needed length. Two $\frac{5}{16}$ x ³/₄ inch flange bolts and nuts are used with this bracket.

• The U-splice is for use when two female rail ends need to be joined. They are bolted in place with $\frac{5}{16} \times 1$ ³/₄ inch flange bolts and nuts. Four bolts should be used for each



bracket.

SWEDGED JOINTS

- The swedging process simply **decreases the size** of the rail, allowing for the pieces to be **joined together** into a strong, smooth joint.
- A **removable bridge**, used at the divider curtains, allows for easy removal and insertion when needing to lower or raise the curtain.

ACCOMMODATING THE DIVIDER CURTAIN

Lowering the Divider Curtain

- Unpin and remove the bridge that is directly below the curtain.
- Place the yellow triangular End Stop onto the track = on the side of the curtain that you will be using your Poultry Hawk.
- **Pin** the end stop in place using the snapper pin that has been provided.
- Now you may lower the curtain.

Raising the Divider Curtain

- Raise the curtain.
- Unpin the end stop and remove the stop from the track.
- Replace the bridge and pin it in place using the snapper pin you used for the end stop.
- **Be sure** the curtain is high enough to clear the Poultry Hawk as it passes underneath.



SETUP EXAMPLE

POULTRY HOUSE WITH 1 DIVIDER

(These instructions show a loop rail. For a single rail, follow these instructions for one side of the house)



- 1. Begin installation with a corner at end A.
- Move along one side with the swedged end leading. Tap on the end of each piece of rail to be sure joints are joined together well. Run a self-tapping screw (provided) into this joint approximately midway both vertically and horizontally.



- 3. At curtain:
 - a. Let swedged end of rail stick past j-bracket. (picture above)
 - b. Cut the rail (**see figure b below**) to length. Be sure to cut from a double swedged piece. The piece you cut off might work to provide a cut piece needed to finish the rail on the other side of the curtain.
 - c. Use your rail wisely! When cutting the rail, you can end up with a lot of waste.
 - d. Place a regular swedged piece (see figure c below) on the other side of the curtain but do not secure it until the bridge is in place.
 - e. Each bridge has a slot cut in each end. With the bridge in place, drill a hole through the rail in the **center** of this slot. Secure the bridge in place using 1³/₄" bolts. (You may remove these bolts later and use a snapper pin to hold the bridge in place.)
- 4. On end B, begin the rail on the other side of house with a corner and one piece of rail.
- 5. Now cut the piece that fits across the end _____ (see figure d below). Be sure to cut this piece allowing for swedge over-lap. If you cut a regular piece ____, the left-over piece should have one swedged end and may be used at any spot showing figure b below.
- 6. Install rail along the second side of loop like the first side. When you get to end A, cut a cross section of rail to go between the corners. Again, be sure to measure allowing for swedge over-lap. Drill a hole all the way through both joints of this piece and secure it with a bolt or snapper pin to allow for easy removal during catch and clean out.





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POULTRY HOUSE WITH 2 DIVIDERS

(These instructions show a loop rail. For a single rail, follow these instructions for one side of the house)



- 1. Begin installation with a corner at end A.
- Move along one side with the swedged end leading. Tap on the end of each piece of rail to be sure joints are joined together well. Run a self-tapping screw (provided) into this joint approximately midway both vertically and horizontally.
- 3. At curtain:
 - a. Let swedged end of rail stick past j-bracket. (picture above)
 - b. Cut the rail (see figure b below) to length. Be sure to cut from a double swedged piece. The piece you cut off might work to provide a cut piece needed to finish the rail on the other side of the curtain.
 - c. Use your rail wisely! When cutting the rail, you can end up with a lot of waste.
 - d. Place a double swedged piece (see figure c below) on the other side of the curtain but **do not** secure it until the bridge is in place.
 - Each bridge has a slot cut in each end. With the bridge in place, drill a hole through the rail in the center of this slot. Secure the bridge in place using 1-3/4" bolts. (You may remove these bolts later and use a snapper pin to hold the bridge in place.)
- 4. At second curtain, follow step 3 except for letter d. Here, instead of a double swedged piece, you will use a regular piece. It will need to be rotated end for end.
- 5. On end B, begin the rail on the other side of house with a corner and one piece of rail.
- 6. Now cut the piece that fits across the end _____ (see figure d below). Be sure to cut this piece allowing for swedge over-lap. If you cut a regular piece _____ , the left-over piece should have one swedged end and may be used at any spot showing figure b below.
- 7. Install rail along the second side of loop like the first side. When you get to end A, cut a cross section of rail to go between the corners. Again, be sure to measure allowing for swedge over-lap. Drill a hole all the way through both joints of this piece and secure it with a bolt or snapper pin to allow for easy removal during catch and clean out.





- 4' o/c trusses—23"

J-bracket to end of rail:

- 5' o/c trusses—35"

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SETUP EXAMPLE

POULTRY HOUSE WITH MORE THAN 2 DIVIDERS

(These instructions show a loop rail. For a single rail, follow these instructions for one side of the house)



- 1. Begin installation with a corner at end A.
- Move along one side with the swedged end leading. Tap on the end of each piece of rail to be sure joints are joined together well. Run a self-tapping screw (provided) into this joint approximately midway both vertically and horizontally.
- 3. At first curtain:
 - a. Let swedged end of rail stick past j-bracket. (picture above)
 - b. Cut the rail (**see figure b below**) to length. Be sure to cut from a double swedged piece. The piece you cut off might work to provide a cut piece needed to finish the rail on the other side of the curtain.
 - c. Use your rail wisely! When cutting the rail, you can end up with a lot of waste.
 - d. Place a double swedged piece (see figure c below) on the other side of curtain but **do not** secure it until the bridge is in place.
 - e. Each bridge has a slot cut in each end. With the bridge in place, drill a hole through the rail in the **center** of this slot. Secure the bridge in place using 1-3/4" bolts. (You may remove these bolts later and use a snapper pin to hold the bridge in place.)
- 4. At subsequent curtains, follow the above instruction.
- 5. At the last curtain, follow step 3 except for letter d. Here, instead of a double swedged piece, you will use a regular piece. It will need to be rotated end for end.
- 6. On end B, begin the rail on the other side of house with a corner and one piece of rail.
- Now cut the piece that fits across the end _____ (see figure d below). Be sure to cut this piece allowing for swedge over-lap. If you cut a regular piece _____ , the left-over piece should have one swedged end and may be used at any spot showing figure b below.
- 8. Install rail along the second side of loop like the first side. When you get to end A, cut a cross section of rail to go between the corners. Again, be sure to measure allowing for swedge over-lap. Drill a hole all the way through both joints of this piece and secure it with a bolt or snapper pin to allow for easy removal during catch and clean out.





Troubleshooting Guide

TROUBLESHOOTING FLOWCHART





PROGRAMMING THE KEY FOB

- 1. Canceling the Key Fob.
 - a. Find the pin hole on the back of the key fob. Using a small wire or something similar, push the button in this hole once to cancel the key fob.
 - b. Wait until the blue light on front of the key fob quits blinking.
- 2. Programming the Key Fob.
 - a. Push the rear button again.
 - b. While blue light is blinking, push all the control buttons of the key fob in sequence in a clockwise direction beginning with the top button.
- 3. Synchronizing the Key Fob with the control box.
 - a. Open the control box.
 - b. Press the button on the receiver chip that is located next to the antenna. A red light should begin blinking.
 - c. While the red-light blinks, push all the control buttons of the key fob in clockwise direction beginning with the top button again.
 - d. Wait until the red light stops blinking.
 - e. The key fob is now programmed.

TROUBLESHOOTING A KEY FOB

- 1. Begin by working through the steps listed above for programming a key fob
- 2. If this does not solve the issue, bring another key fob, and program it with the troubled Hawk.
- 3. If the Hawk now works correctly, the 1st remote is not working
- 4. Begin by replacing the battery in the remote that is not working.
- 5. If the trouble persists then call your local dealer.

Warranty Coverage

Innovative Poultry Products LLC hereby provides a Limited One (1) Year Warranty on the Products manufactured by Innovative Poultry Products LLC that such Products shall be free from manufacturer's defects in any of the Product's components in the 12-month period following the original date of purchase from the authorized dealer (the Warranty Period). Innovative Poultry Products LLC HEREBY EXCLUDES AND DISCLAIMS ANY AND ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, INCLUDING WITH-OUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE AND ANY WARRANTY ARISING FROM USAGE OR TRADE OR COURSE OF DEALING. Defective components will be repaired or replaced at the discretion of the manufacturer. It is the responsibility of the purchaser to return warranted components to the manufacturer. This Product Warranty is limited to INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. This Product Warranty covers the purchaser of this Product and any other owners who own it during Warranty Period.

To retain the Product Warranty, the Product must be operated and maintained as set forth by its owner's manual. For warranty service, please have copy of the purchase invoice available.

Warranty is Void If:

- 1. The Product has been subjected to, in the opinion of Innovative Poultry Products LLC, negligent handling, misuse, an accident, or if the instructions in the owner's manual were not completely followed.
- 2. The Product's components have been altered in any manner, not installed per the manufacturer's instructions, or repairs have taken place with unapproved parts.

Getting Warranty Service

All Product Warranty claims must be made through an authorized Innovative Poultry Products LLC dealer. All warranty claims must be submitted with an invoice or a proof of purchase that denotes the purchase date and place of purchase. If you have any questions or comments concerning this warranty, please contact Innovative Poultry Products LLC or an authorized Innovative Poultry Products LLC dealer.

CONTACT INFORMATION

Innovative Poultry Products LLC | 2192 Juniper Creek Rd. | Olar, SC 29843 www.innovativepoultryproducts.com | sales@innovativepoultryproducts.com | 803.571.3345

Warranty Procedure

- 1. Fill out Warranty Claim Form. (This form is provided for copying on the next page or can be found under the support tab of the Innovative Poultry Products LLC website.)
- 2. Return the defective part along with the Warranty Claim Form.
- 3. Innovative Poultry Products LLC will send a replacement part as soon as the defective part is received and is deemed worthy of warranty coverage.
- 4. If the customer needs the new part sooner than the above steps allow, Innovative Poultry Products LLC will send the part and invoice the customer. In order for the customer to be credited the invoice amount, the defective part is to be received by Innovative Poultry Products LLC within 21 days after the invoice is sent to the customer.

WARRANTY CLAIM FORM

Warranty Claim Form

Innovative Poultry Products, LLC

2192 Juniper Creek Rd., Olar, SC 29843

803.571.3345

sales@innovativepoultryproducts.com

List the part	being	returned	:_
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Description of Problem: _____

Serial number of the Poultry Hawk the part came from: ____

Date of Purchase:	Date of Failure:
Customer:	Dealer:
Address:	Address:
Phone:	Phone:
Email:	Email:

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