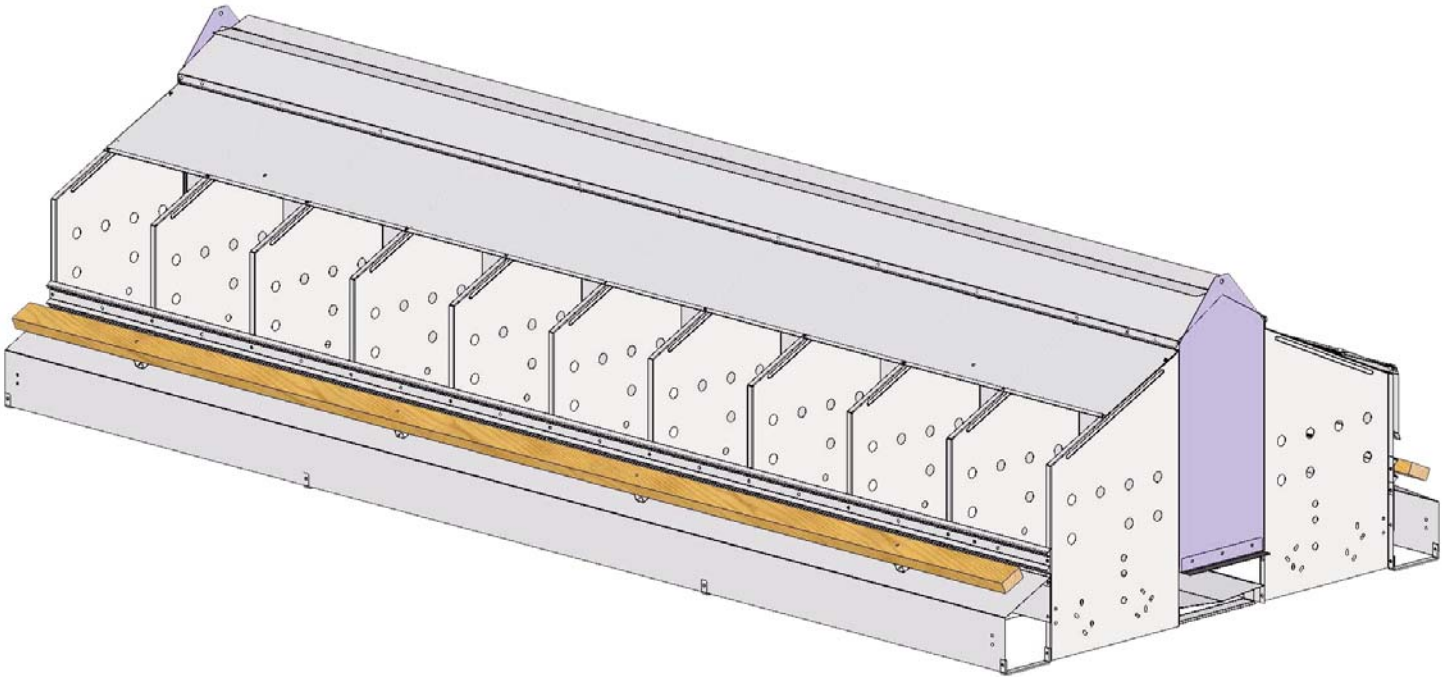




## Assembly Instructions



*Made to Work. Built to Last.*<sup>SM</sup>  
P.O. Box 2000 State Road 15 North  
Milford, IN. 46542-2000 U.S.A.  
574-658-4101 Fax 877-730-8825  
[www.ctbinc.com](http://www.ctbinc.com)

Made in the U.S.A.

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## **Conditions and Limitations**

1. The product must be installed by and operated in accordance with the instructions published by the **Manufacturer or Warranty will be void.**
2. Warranty is void if **all components** of the system are not original equipment supplied by the Manufacturer.
3. This product must be purchased from and installed by an authorized distributor or installer or a certified representative thereof **or the Warranty will be void.**
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance, or from lightning strikes, electrical power surges or interruption of electricity, shall not be considered defects under the Warranty.
5. This Warranty applies only to systems for the care of poultry and livestock. Other applications in industry, commerce, or residential applications are not covered by this Warranty and are **strictly prohibited.** Any such use **will void the Warranty.**

Manufacturer shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. **"Consequential" or "Special Damages" as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.**

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Effective 01/07

# ASSEMBLY INSTRUCTIONS FOR CENTER BELT NEST

This guide will address the assembly of and parts identification for the revised center belt nest of common partition design. This guide will also include attachment of and parts identification for the passageways.

Installation of the collection table, variable speed control and egg belt as well as system operation will be covered in a separate document.

**⚠ WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

L'installation déplacée, l'ajustement, le changement, le service ou l'entretien peuvent causer les dommages de propriété, la blessure ou la mort. Lire l'installation, fonctionnant et les instructions d'entretien à fond avant d'installer ou entretenir cet équipement.

La instalación impropia, ajuste, modificación, servicio o mantenimiento puede causar dañado propiedad, herida o muerte. Lea la instalación, trabajar y mantenimiento instrucciones completamente antes de instalar o poner en funcionamiento equipo.

## DANGER

Take necessary precautions when working with sheet metal, edges may be SHARP!



Faites attention quand travaillant avec feuillet, les bords peuvent être AIGUISÉ !

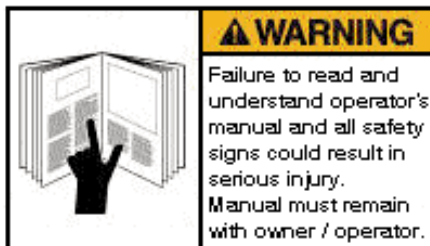
¡Tome las precauciones necesarias al trabajar con metal laminado, las orillas pueden ser AGUDAS!

Read assembly guide completely before beginning setup. For most efficient assembly, two people should work together on nests.

Lire assemblée guide avant que commencer. Deux gens devoir travailler ensemble sur les nids.

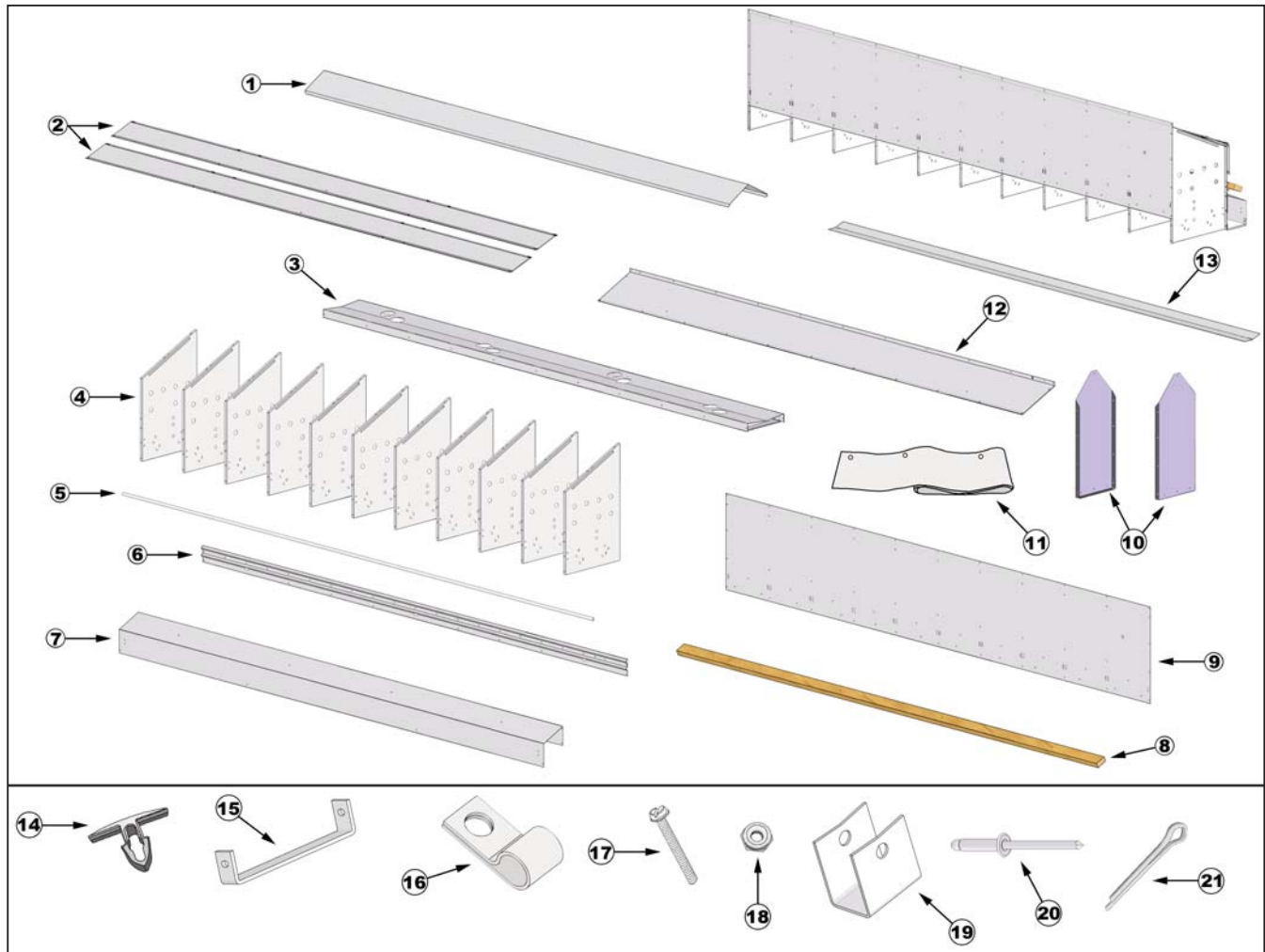
Lea la asamblea guía completamente antes de empezar montaje. Para la más asambleas eficientes, dos personas deben trabajar juntos en nidos.

## CENTER BELT NEST BODY ASSEMBLY AND INSTALLATION INSTRUCTIONS



## Nest Kit Part Numbers

62911201	NEST, CENTER BELT C-T 20 HOLE WITH LIDS
62911101	NEST, CENTER BELT C-T 20 HOLE W/O LIDS



Part No.	Part Description	Parts Per Nest
1	16560077 COVER,CONVEYOR CBN CHORE-TIME	1
2	16500124 LID, C.BELT CLOSE-OUT UNIV.	4
3	16500143 TRAY:C.BELT 20 HOLE CONVEYOR	1
4	16500166 PARTITION:NEST UNIV-RTNR HOLES	22
5	16060026 WIRE:BTM SUPPRT GLV #5 95.125"	4
6	16560008 STRINGER: 20 HOLE NEST UNIV.	2
7	16500122 FRONT, CENTER BELT 20 HOLE	2
8	16-34533 PERCH: 95" - DRILLED	2
9	16500118 BACK, CENTER BELT 20 HOLE	2
10	16560067 END,CENTER BELT NEST UNIVERSAL	2
11	16060043 CURTAIN: SCBN	2
12	16500010 TOP: 9.6" HOLE UNIV. NEST	2
13	16-30190 FLIPPER, 8FT NEST UNIV.	1
14	16-35585 RETAINER: PLASTIC T	24
15	16-104249 BRACE,FRONT CENTER BELT UNIV.	8
16	16-8904 CLAMP: HINGE SS 3/8 WIDE	16
17	16-90078 SCREW:10-24 x 2-1/4 HX HD WHSR	8
18	16-90076 NUT, HEX 10-24 W/NYLON INSERT	8
19	16500006 BRKT: PERCH / ROD SUPPORT UNIV	16
20-A	16-34096 RIVET: POP 3/16" AL AD62ABS SH	220
20-B	16-33139 RIVET: POP 3/16" AL AD64ABS LG	38
21	16-12500 PIN: COTTER STEEL 1/8" X 3/4"	6

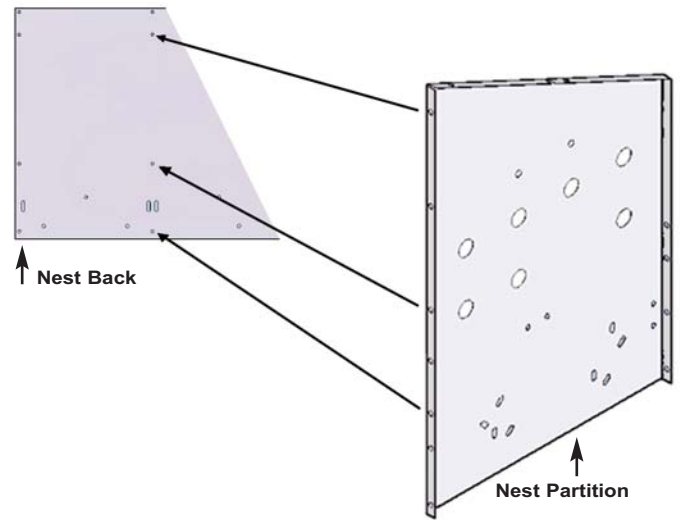
## STEP 1

Rivet partitions to back.

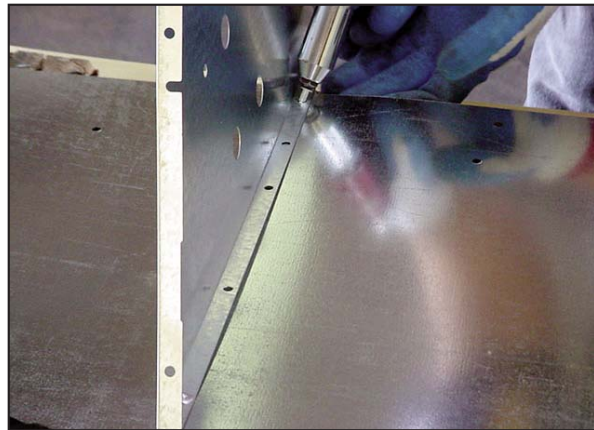
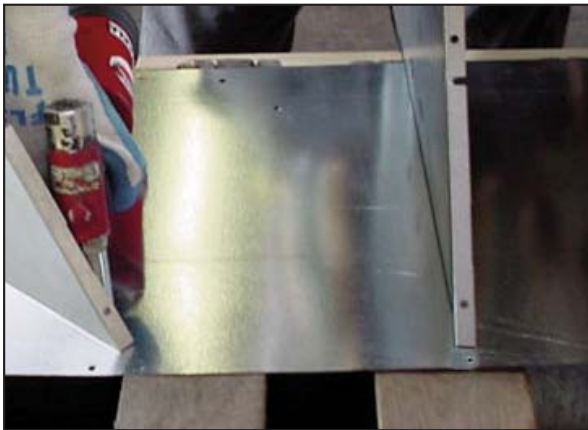
**DO NOT INSTALL END PARTITIONS AT THIS STEP.**

Top hole in partition goes to the second hole in top of the back. The bottom two holes of the Partition overhang the lower edge of the Back.

If plastic fronts are used, install them at this step using rivets.



**End Partitions are NOT installed until Step 8.**

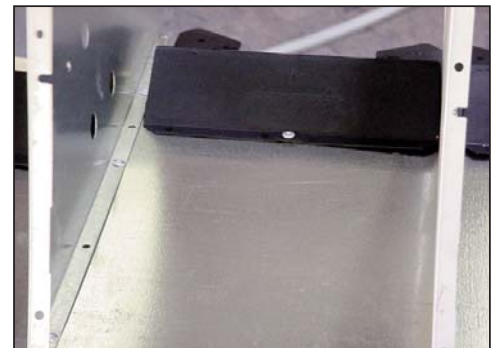


## STEP 2

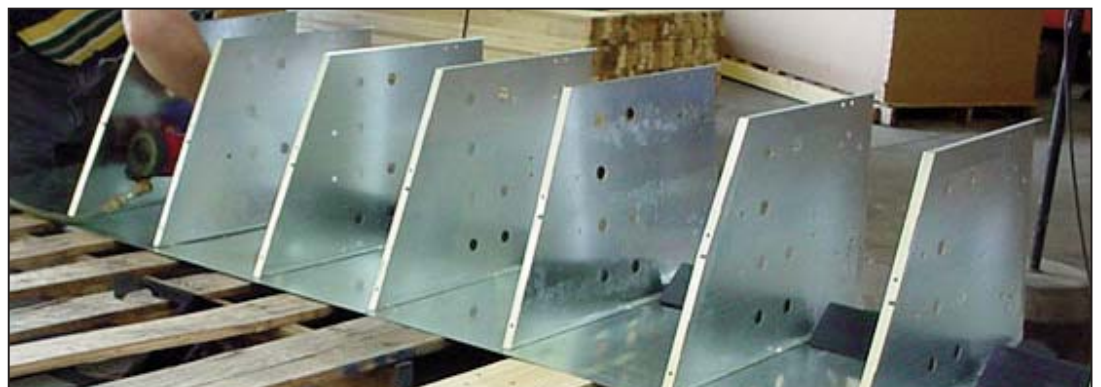
Install plastic fronts to nest backs between partitions.

### NOTE:

If Plastic Fronts are NOT used, skip to step 3.

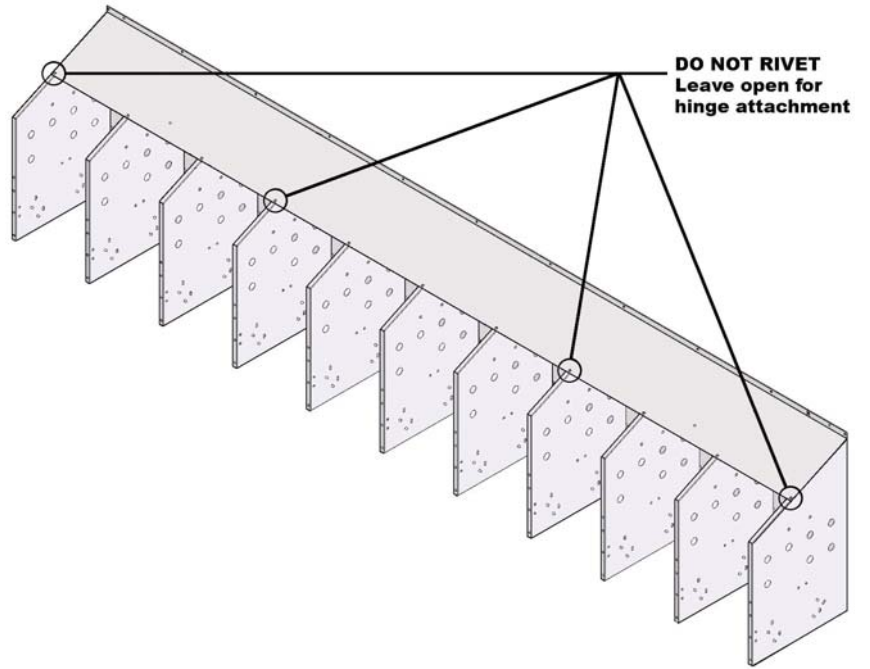
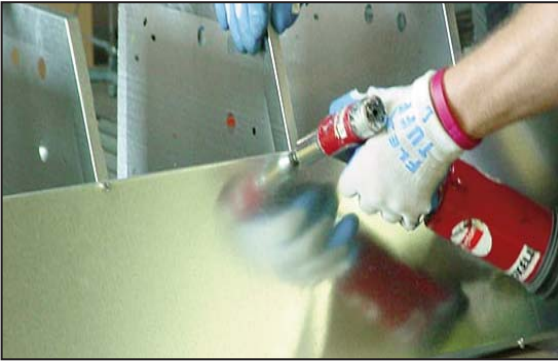
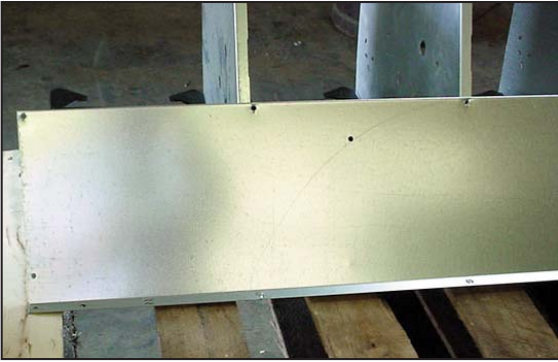


Partitions, Plastic Fronts installed on backs.



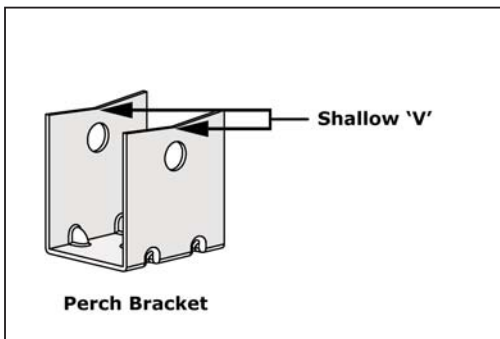
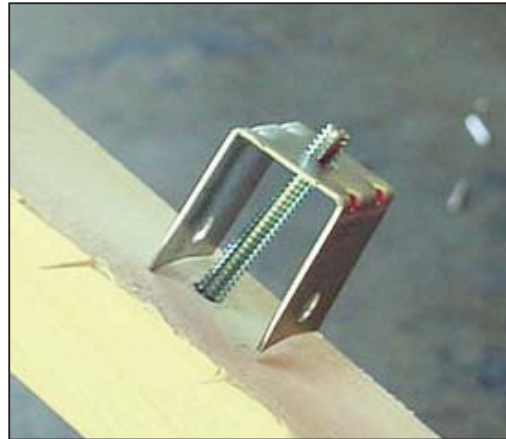
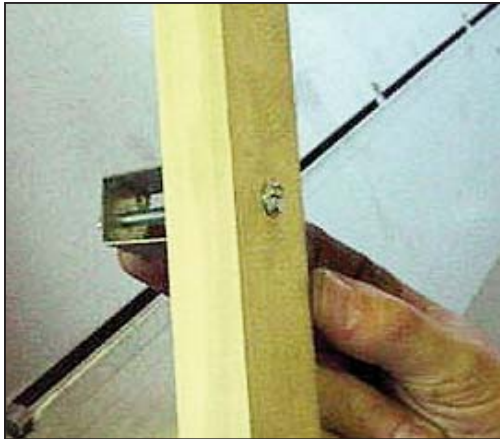
## STEP 3

Install tops as shown by riveting tops to partitions and to back. **DO NOT RIVET** holes on end partitions or on partition numbers three and seven (both sides). Leave these holes open for attachment of hinges.



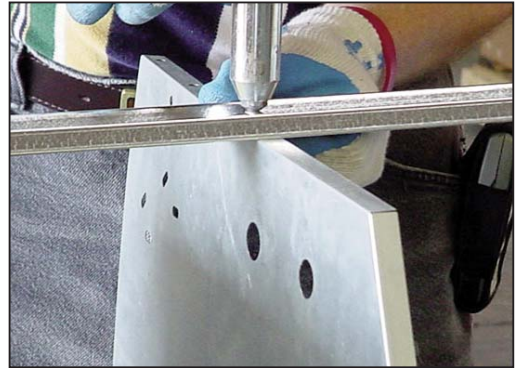
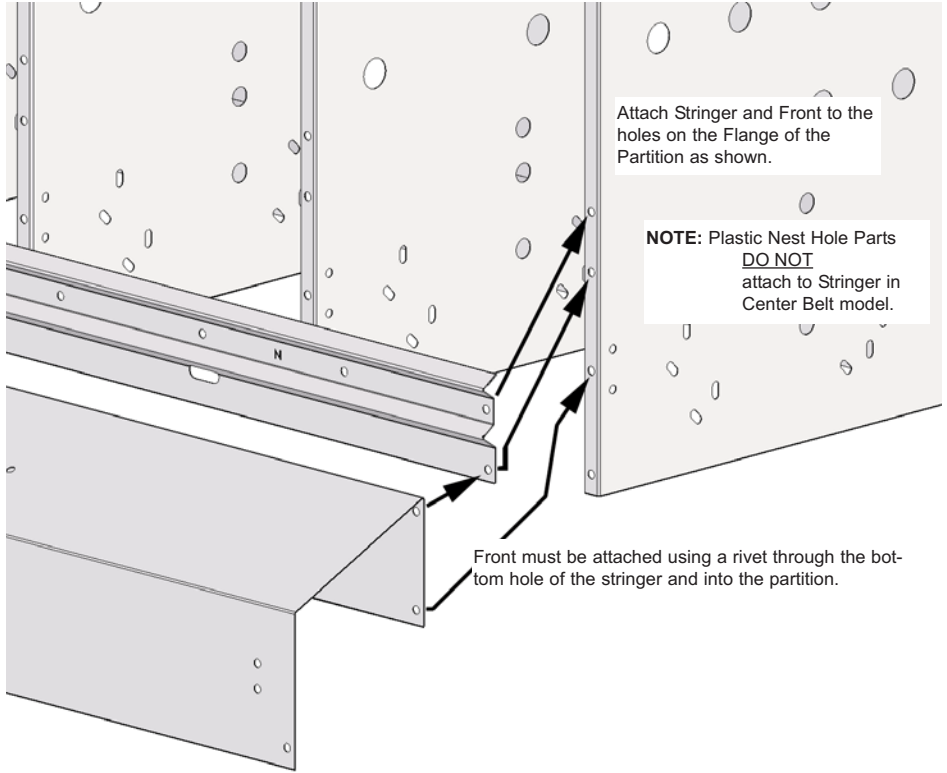
## STEP 4

Install Perches on Fronts. "V" edge of bracket must face wooden perch. Attach perches to fronts using 10-24 hardware as shown.

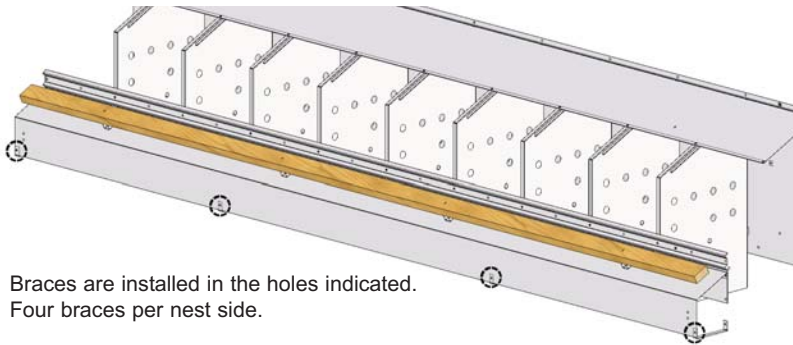
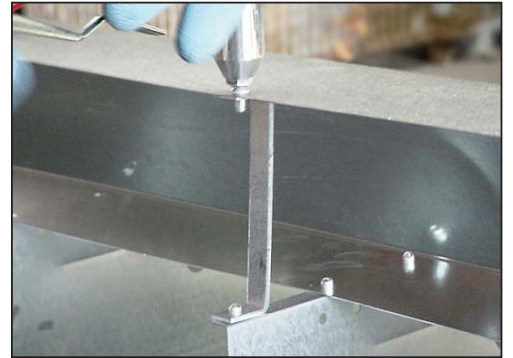
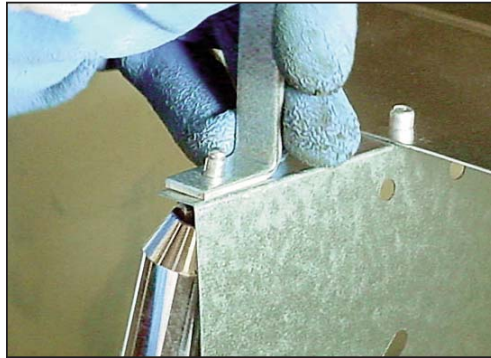


# STEP 5

Install Stringers and Fronts to nest partitions using rivets.



Install braces underneath the Fronts for stability. Four Braces required per Nest Front.



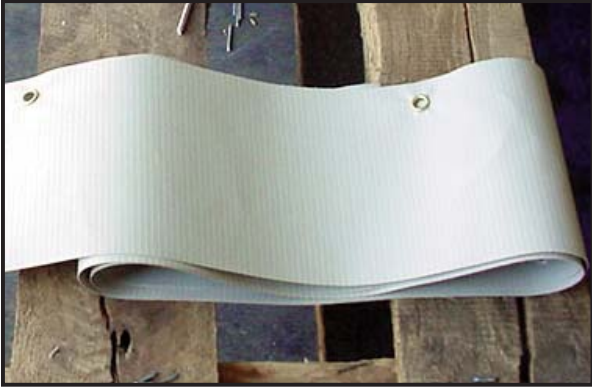
View showing Partially Assembled nest half-body. Note that End Partitions are not yet installed.



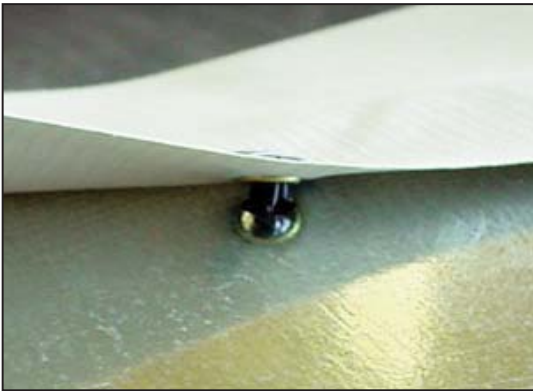
## STEP 6

Attach vinyl curtain strip to rear panel using 12 plastic "T" retainers.

**TIP:** Use needle nose pliers to squeeze "T" clips for easier assembly.



Attach curtain to back as shown using clips supplied.





## STEP 7

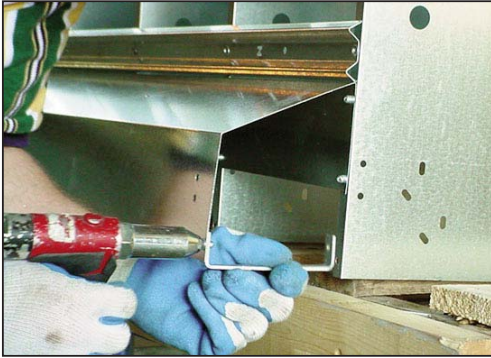
Attach End Partitions with Rivet to Fronts, Tops and Stringers.

DO NOT RIVET END PARTITIONS TO BACK UNTIL STEP 10.

End Partitions must be riveted to the back at the same time as the End Panel.



Attach braces to Front and End Partitions.



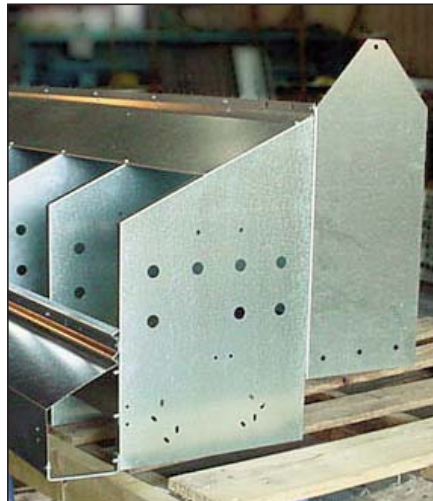
## STEP 8

Attach End Panels with End Partitions to Back.

DO NOT RIVET BOTTOM TWO HOLES IN END PARTITIONS

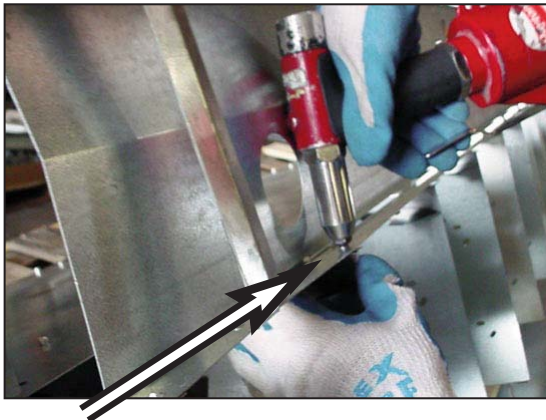
LEAVE OPEN FOR PASSAGEWAY AND EGG TRAY ATTACHMENT.

DO NOT RIVET  
IN THESE  
TWO HOLES.

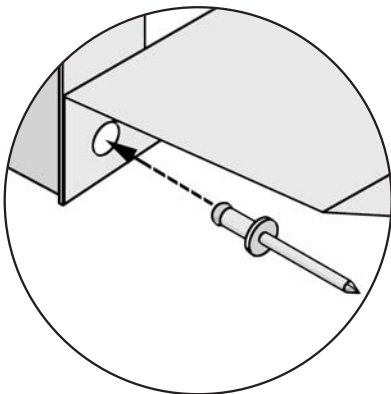
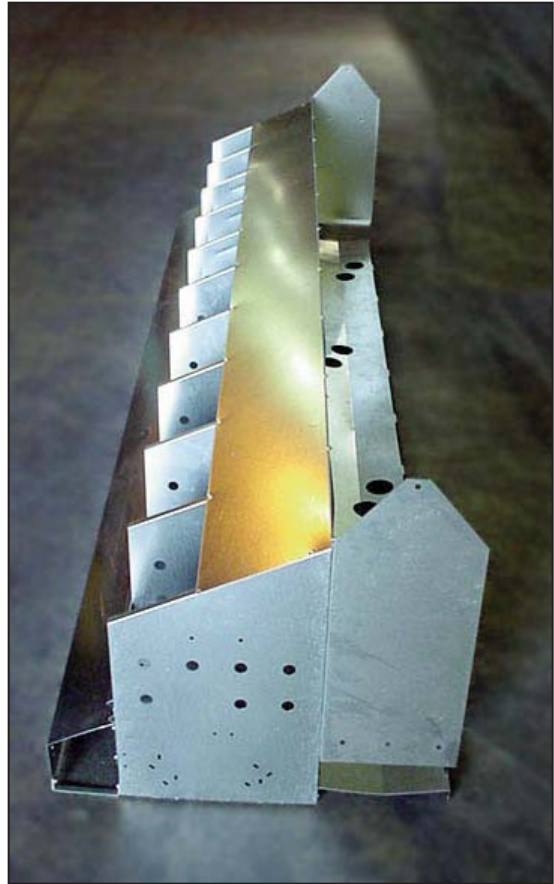


## STEP 9

Attach Egg Tray Assembly to one half of Nest Body



Attach egg tray to **BOTTOM HOLE** in Partitions using rivets.



### **IMPORTANT!**

The stem of the installed rivet should be away from the egg belt on the return side in order to avoid snagging and/or damage of the egg belt.

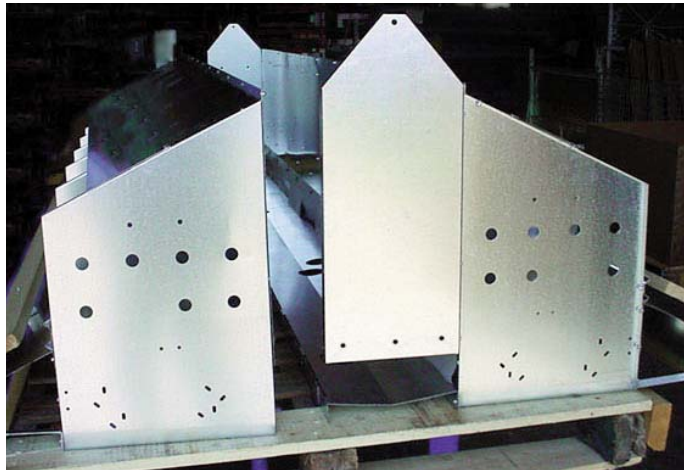


## STEP 10

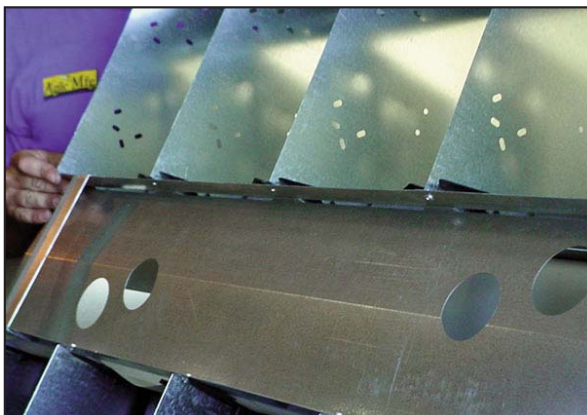
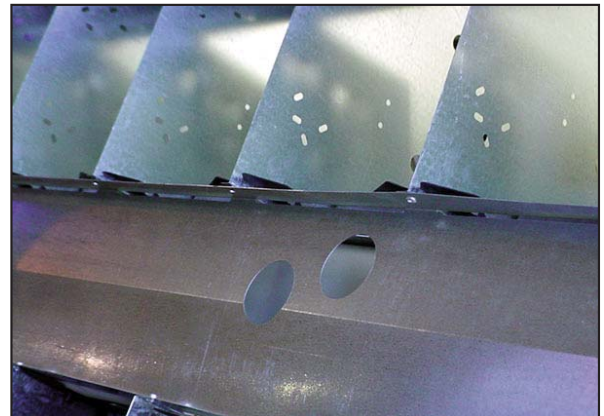
Assemble Halves by attaching ends to backs and partitions. Build opposite half of nest by repeating steps 1 through 7.



Fasten End Panels to 2nd half, fasten Egg Tray to Partitions underneath

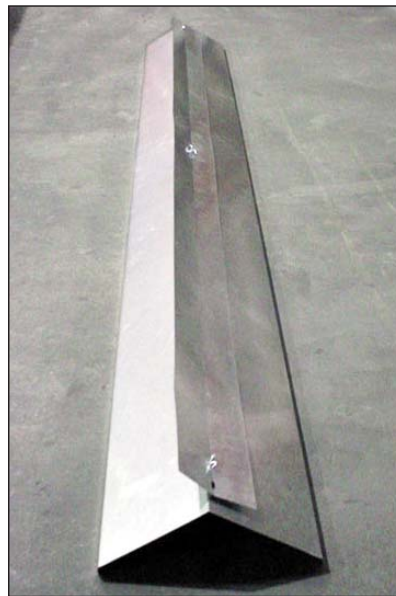
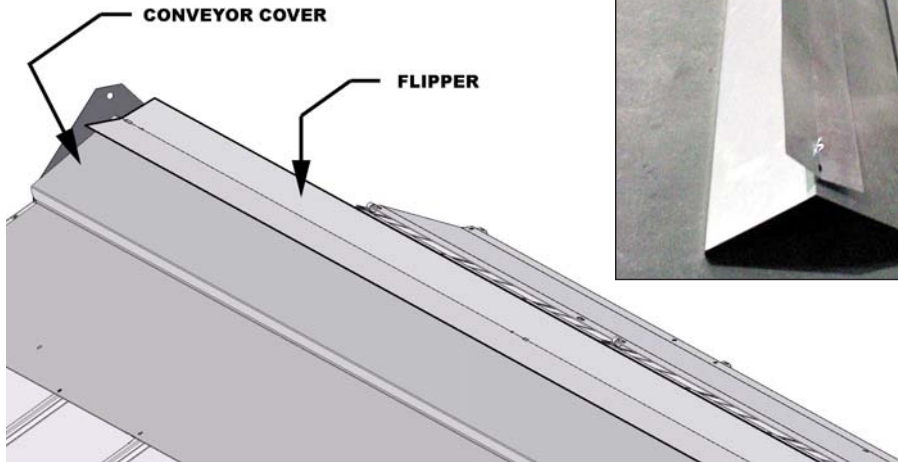


Join the two halves of nest body on the underside partitions to egg tray assembly.



# Step 11

Attach flipper to conveyor cover using cotter pins.



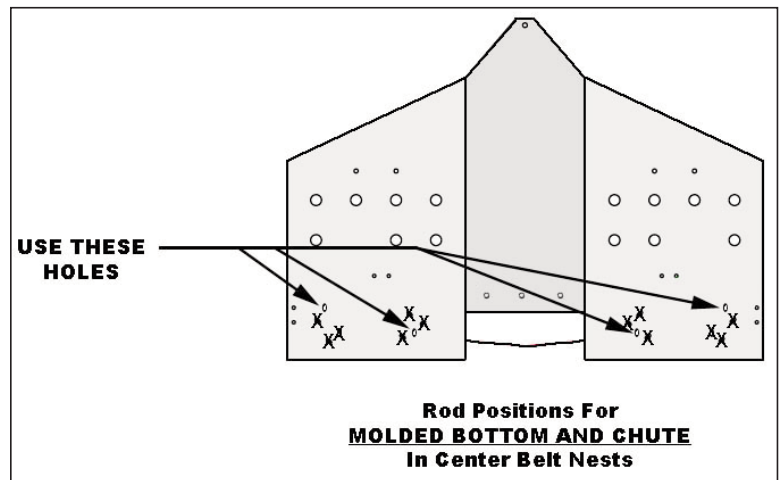
Attach conveyor cover to nest.

# STEP 12-A

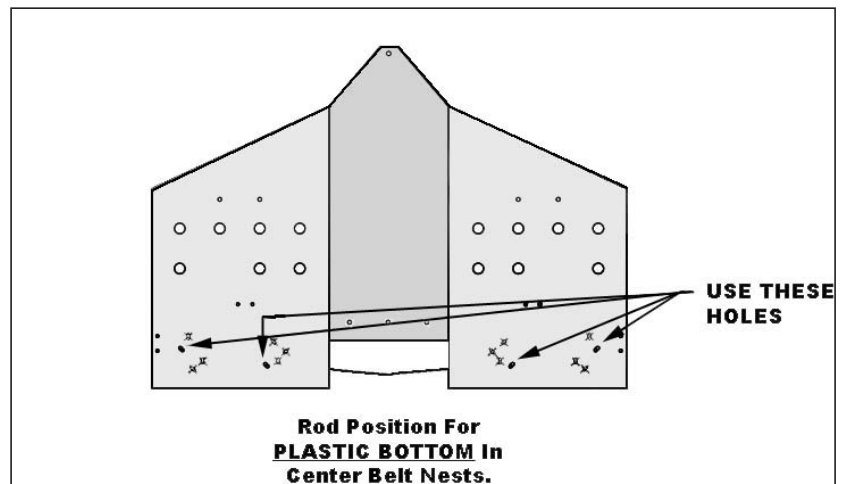
Slide **Support Rods** through the appropriate positioning slots in the end partition. See Diagrams below.



For this Style Bottom →



For these Style Bottoms →

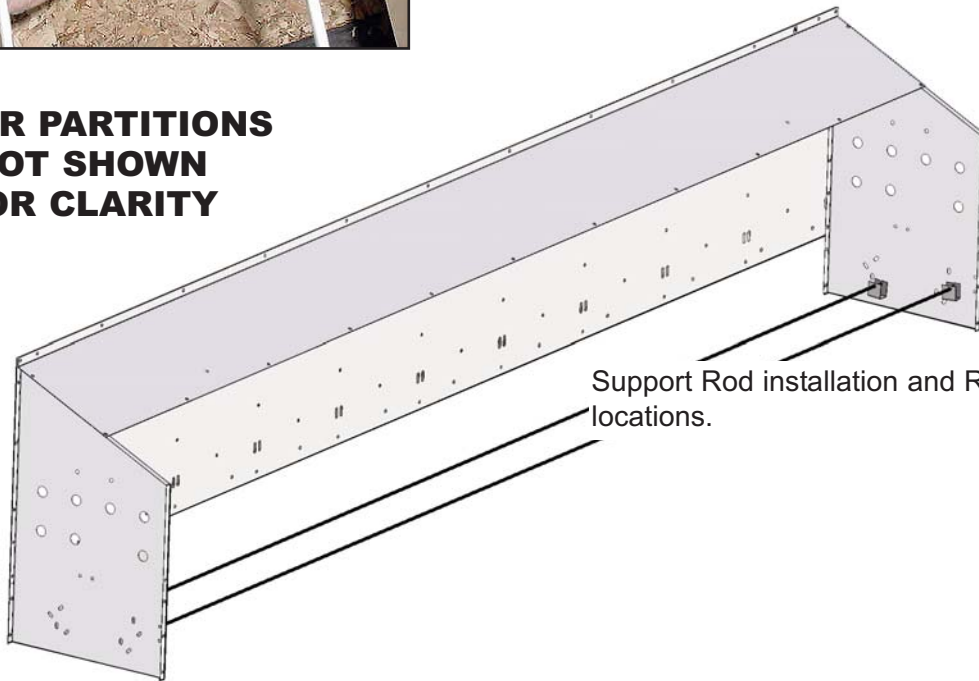


# STEP 12-B

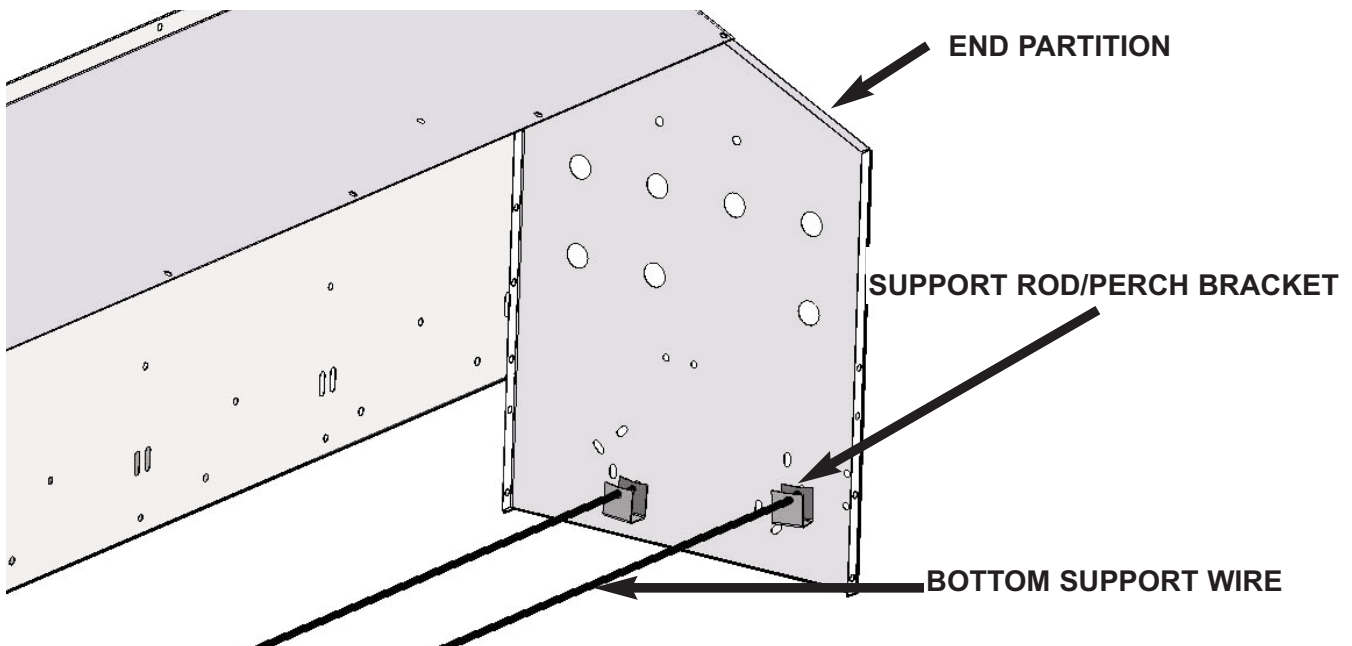
Install Bottom Support Rods / Perch Brackets using rivets on End Partitions only.



**INNER PARTITIONS  
NOT SHOWN  
FOR CLARITY**



Support Rod installation and Rod Support Bracket locations.



END PARTITION

SUPPORT ROD/PERCH BRACKET

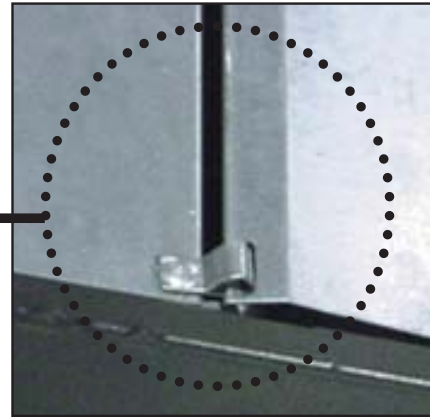
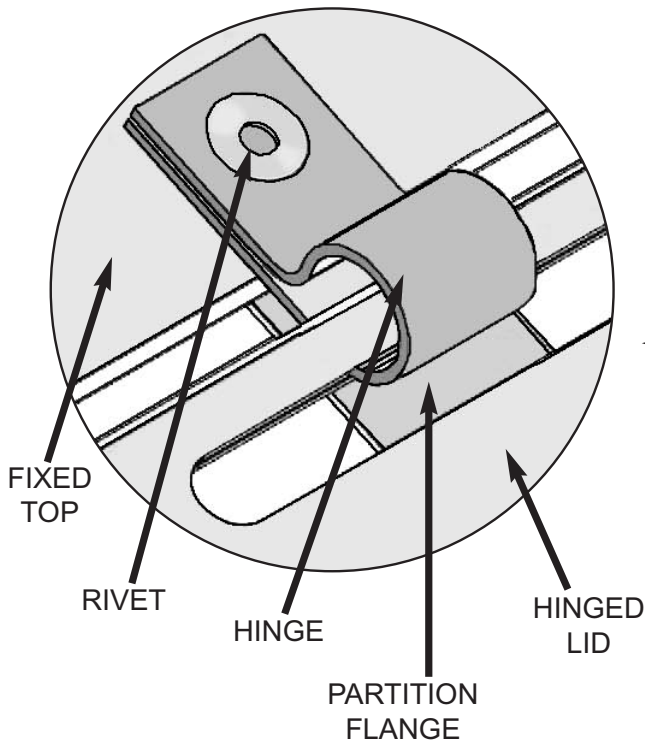
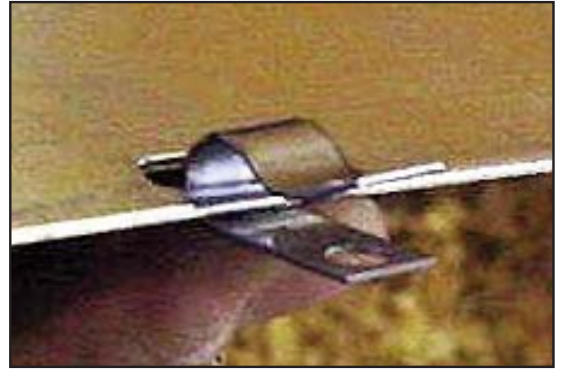
BOTTOM SUPPORT WIRE

## STEP 13

**NOTE:** For Nests without lids, skip to Step 15.

Attach the **Nest Upper Lid** as follows:

- Insert **Hinge Clamp** into middle slot on **Nest Lid**.
- Compress **Hinge Clamp** with pliers or guide nail and align with middle hole on **Top** and **Partition**. Fasten with rivet through **Hinge** and **Top** into **Partition**.
- Repeat for **Lid/Hinge/Partition** connection on each end of **Lid**.



## STEP 14

Attachment of lower lid.

When riveting the hinge on the closeout lid the hinge is placed under the lip of the nest top.



# STEP 15

## CONNECTING NESTS TO WINCHING SYSTEM

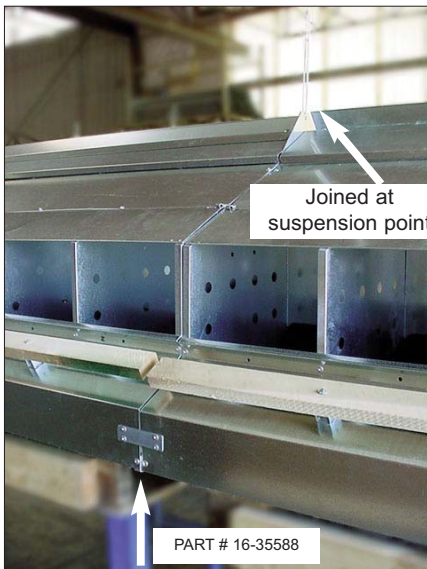
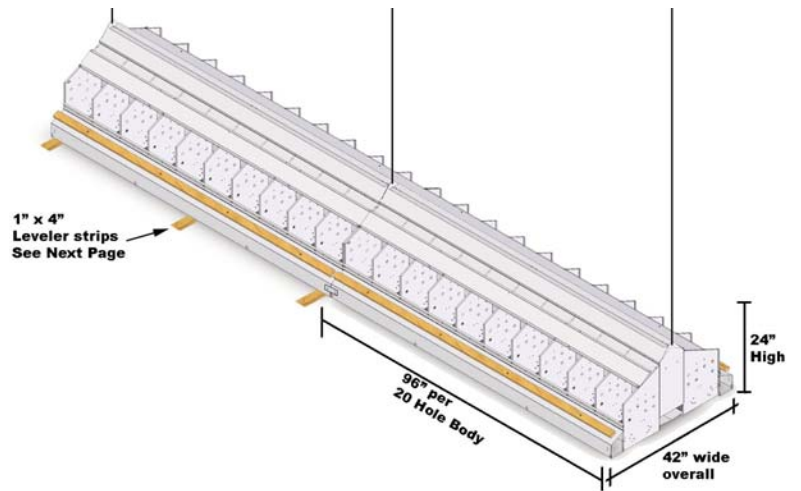
Select winches that will safely support the system. An 8' section weighs approximately 128-130 pounds.

**WE, THE NEST MANUFACTURER, CANNOT BE RESPONSIBLE FOR THE CAPABILITIES OF THE STRUCTURE TO SUPPORT THIS SYSTEM. FOR WEIGHT LOAD CAPABILITIES, CONTACT YOUR BUILDING CONTRACTOR.**

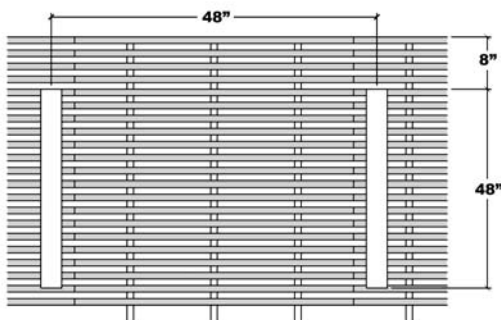
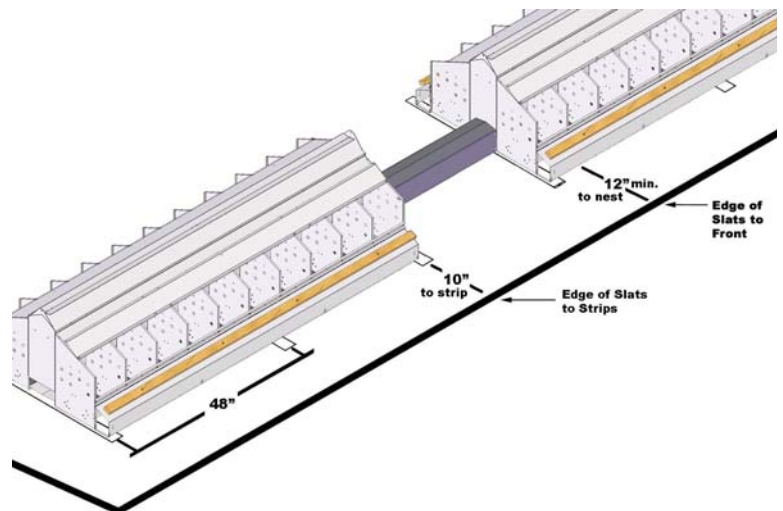
A cable drop is required at the end of each nest section. Cable saddles or 'S' hooks may be used to attach to the nest brackets.

Level the system from side to side as well as along the length of the line.

When placing the nest system on slats, whether wooden or plastic, Agile Mfg. requires that the nest line be level along the entire length of the line. This can be accomplished by placing 1" x 4" strips over the slats and underneath the nests as a base to shim the nests.



Two nest bodies joined using 16-35588 Connector Bracket (below) and Suspension Points (above).



8' Section Placement of 1" x 4" x 48" strips

**ATTENTION:**  
**Nest Line Alignment Notice**

**Nest Lines MUST be aligned and straightened after installation and before egg collection begins at the start of each flock. Once the nests are resting on the slats, the nest egg trays must be straightened with each other horizontally from side to side, and vertically. Shims may be required to lift the nests from underneath off the slats for vertical leveling the egg trays.**

**Failure to complete this alignment of the nest line WILL result in premature egg belt wear, belt edge fraying, eggs under belts, and possible belt breakage. In addition, badly frayed and worn belts can cause damage to the egg belt drive system and control.**

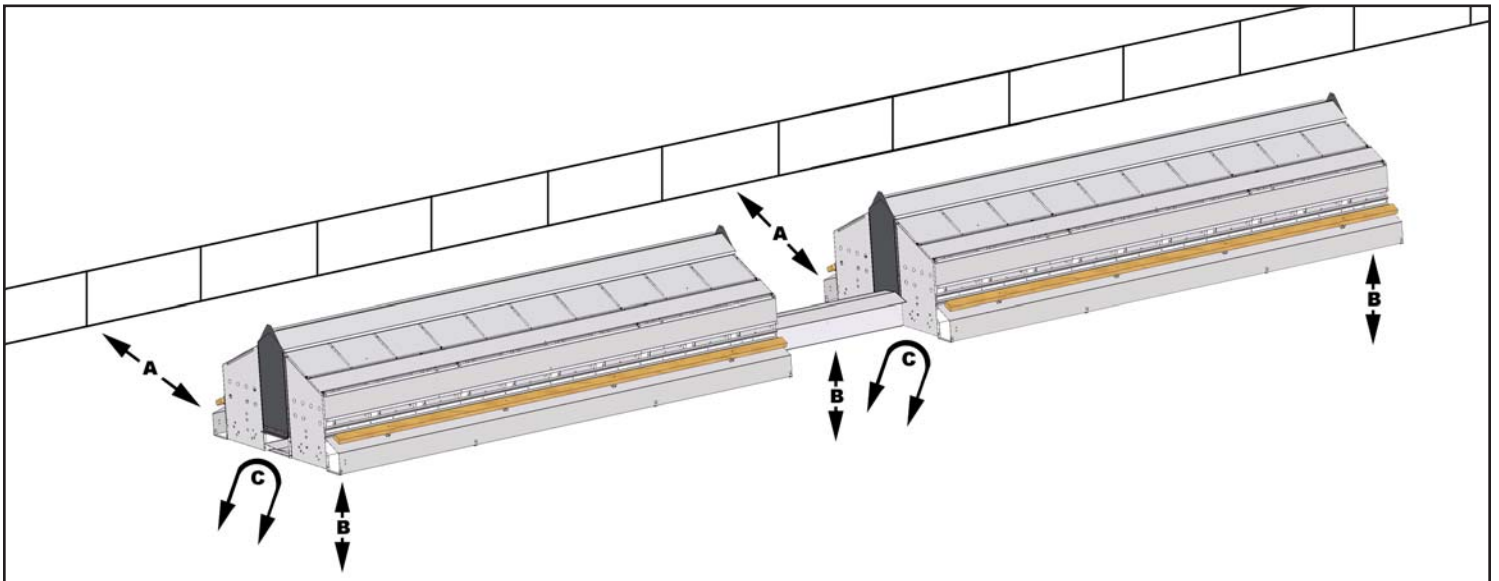
**Also, the nests must be adjusted to be level from side to side to insure the correct bottom and pad angle for proper egg roll-out from the nest pads to the egg belt and trays. Nests that are not level from side to side may have eggs remaining in the nest hole on one side of the line, while the other side will be too steep and may cause egg shell checks and cracks. Again, shims may be required to lift the nests from underneath off the slats for vertical leveling the nest bodies.**

**A** - Dimensions from nest to outer wall or slat system wall. Dimension "A" assumes supports on stem wall is straight. Buildings may vary. Adjust nest line side to side to make "A" dimension equal on all nests in the line.

**B**- Vertical adjustment. Shim nest lines on slats in "B" direction (up or down) as required to make egg tray surfaces between nest bodies and nest bodies and passageways flush at connection joints.

**C** - Line leveling. Egg trays should be level from side to side to insure correct floor angle in nest bodies.

**Note:** A laser level can be used for A,B, and C.





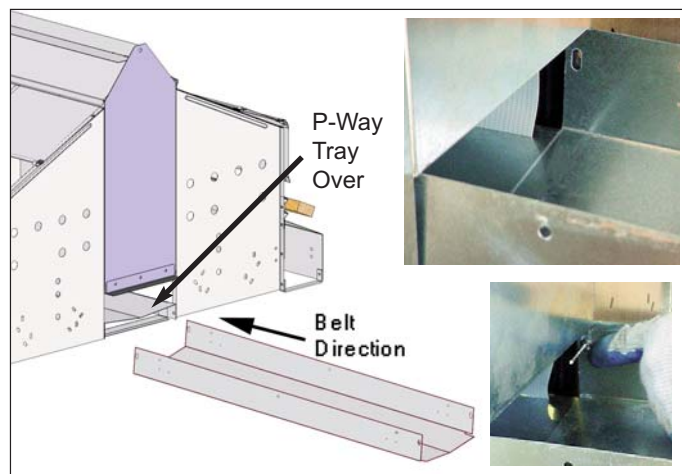
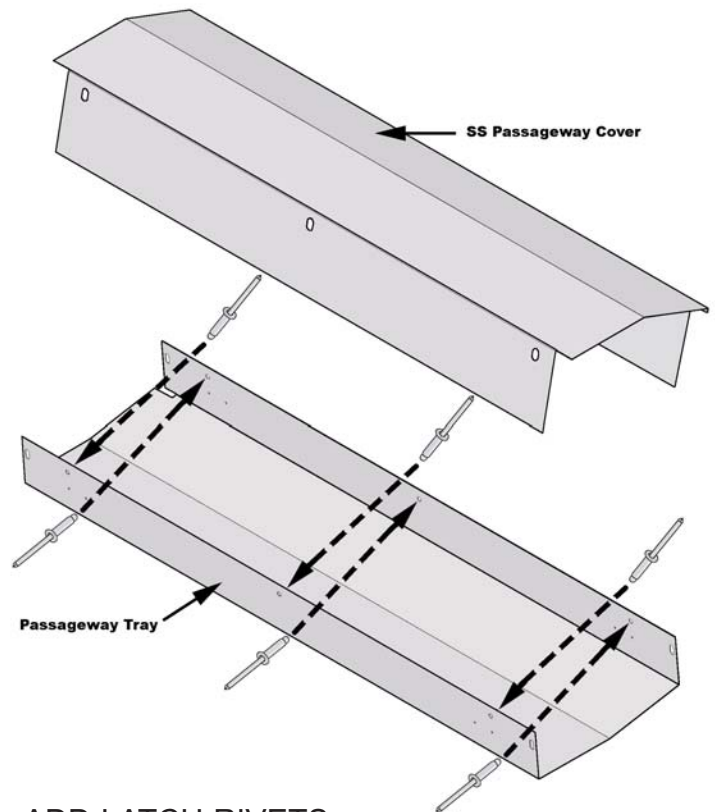
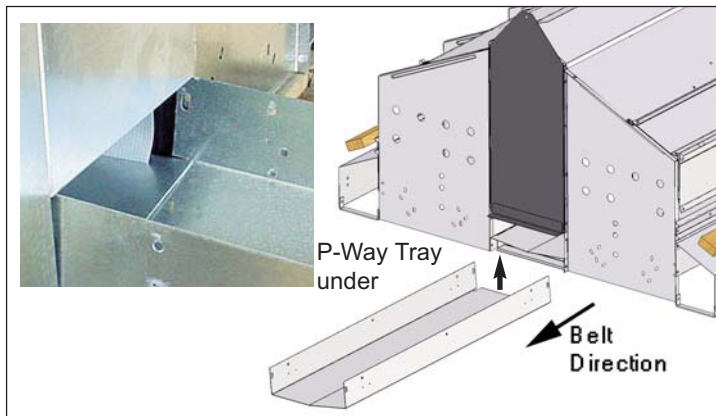
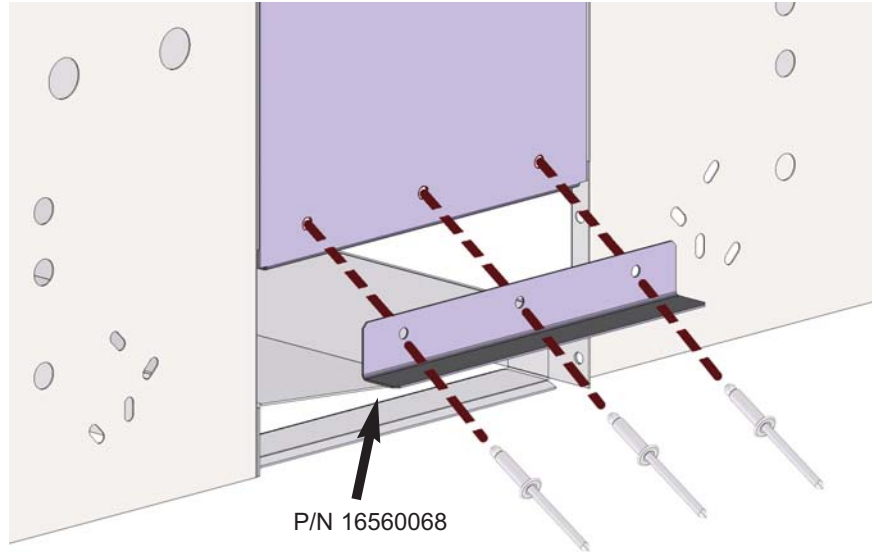
NOTE: It is essential that the sections be properly aligned and leveled to allow free movement of the conveyor belt.

Install conveyor passageways between nest sections as required. Be sure to follow instructions.

NOTE: improper assembly may cause excessive belt wear. Proper assembly provides a shingling effect for the belt to travel on the conveyor.

## STEP 16

Attach conveyor passage support to the End using three rivets as shown.



**ADD LATCH RIVETS**  
Place rivets through trays with shoulder inside out. Hook covers over rivets  
(Apply Rivets to BOTH sides)

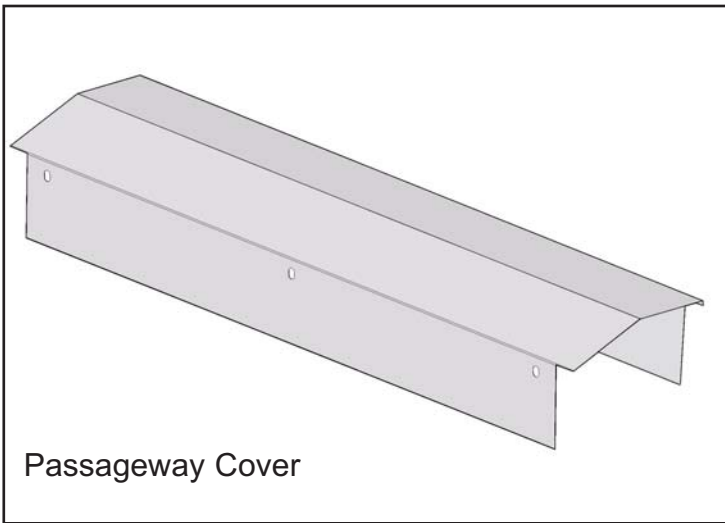
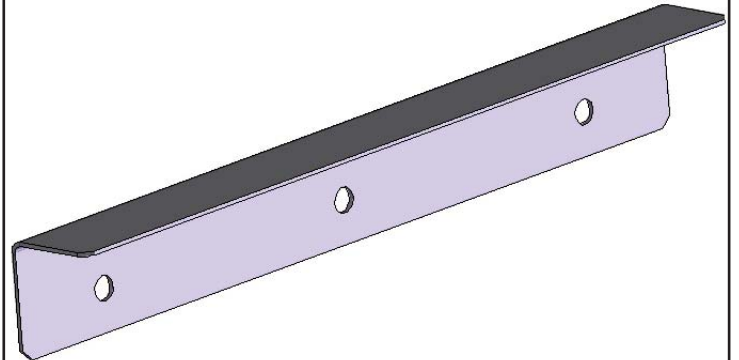
## PASSAGEWAY COMPONENTS

16-33139 RIVET: POP 3/16" AL AD64ABS LG

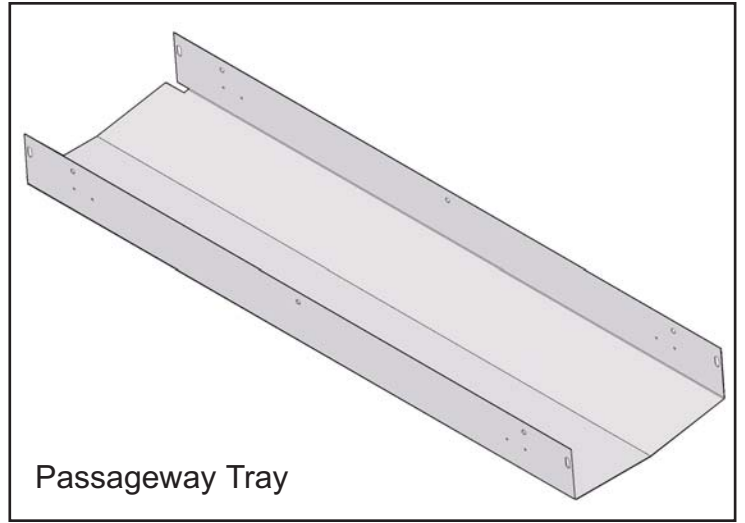


16-34096 RIVET: POP 3/16" AL AD62ABS SH

16560068 ANGLE, C.BELT P-WAY SPPT



Passageway Cover



Passageway Tray

16560071	<u>PASSAGEWAY,8" X 18" SS CBN KIT</u>
16-104169	COVER: PASSAGEWAY 18" SCBN1010
16-104163	TRAY: PASSAGEWAY 18" SCBN1010
16560072	<u>PASSAGEWAY,8" X 24" SS CBN KIT</u>
16-104170	COVER: PASSAGEWAY 24" SCBN1010
16-104164	TRAY: PASSAGEWAY 24" SCBN1010
16560073	<u>PASSAGEWAY,8x28-3/4 SS CBN KIT</u>
16-104171	COVER: PSSGWY SCBN 1010 28-3/4
16-104165	TRAY: PSSGWY SCBN 1010 28-3/4"
16560074	<u>PASSAGEWAY,8" X 36" SS CBN KIT</u>
16-104172	COVER: PASSAGEWAY SCBN1010 36"
16-104166	TRAY: PASSAGEWAY SCBN 1010 36"
16560075	<u>PASSAGEWAY,8" X 48" SS CBN KIT</u>
16-104173	COVER: PASSAGEWAY 48" SCBN1010
16-104167	TRAY: PASSAGEWAY 48" SCBN1010

## 61511100 for 9.6" holes

Kit: 20 Hole, Plastic Molded Btm w/Egg, chute, pad



16-37192 : Chute

16-37199 : Tie: Cable Outdoor 7-1/2"

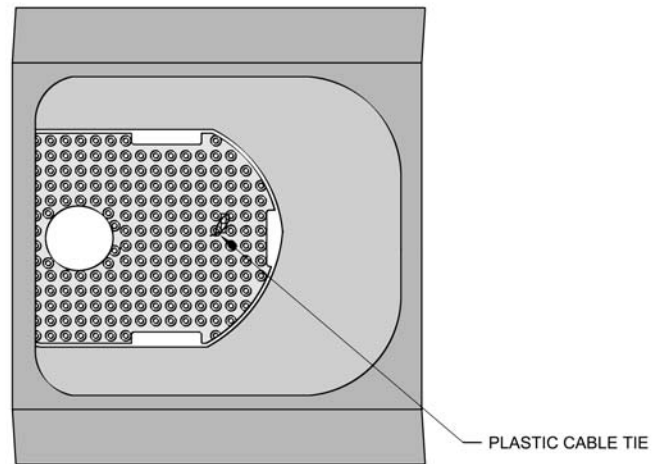
16-37184 : Molded Bottom

16-37187 : Decoy Egg

16-37186 : Finger Pad for Molded Bottom

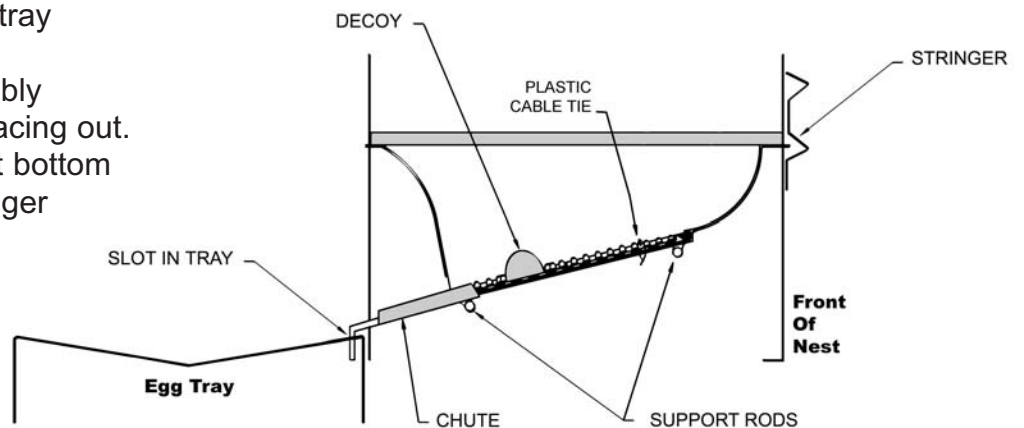
### MOLDED NEST BOTTOM ASSEMBLY

1. Assemble decoy egg, nest pad to molded nest bottom.
2. Secure Finger Pad with plastic cable tie. Insert Cable Tie from underside of Nest Bottom through small hole in Nest Bottom through matching hole in Finger Pad back down through adjacent hole in Finger Pad through larger hole in nest bottom. Close Plastic Cable Tie. Do not over tighten tie.



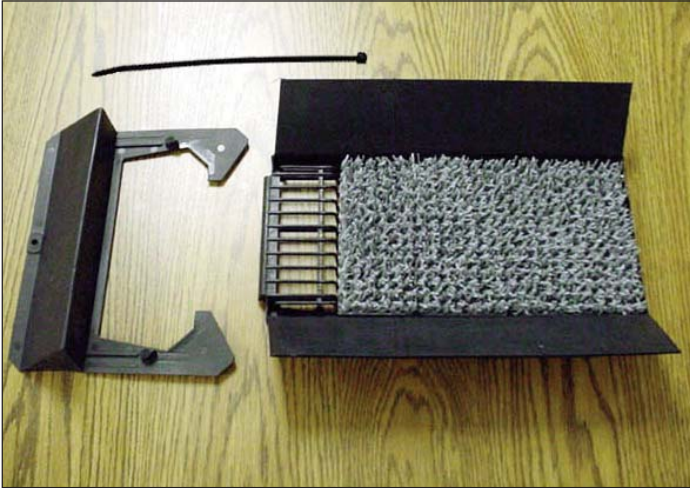
### CHUTE AND NEST INSTALLATION

1. Insert lip of chute into slot in tray and over front support rod.
2. Place the nest bottom assembly into nest opening with door facing out. Insert front lip of molded nest bottom into lower groove on the stringer then press back of molded nest bottom down so it rests on support rod.



# 61512301 for 9.6" holes

Kit: 20 Hole, Plastic btm w/grill, turf pad, front



16-37362 : Front

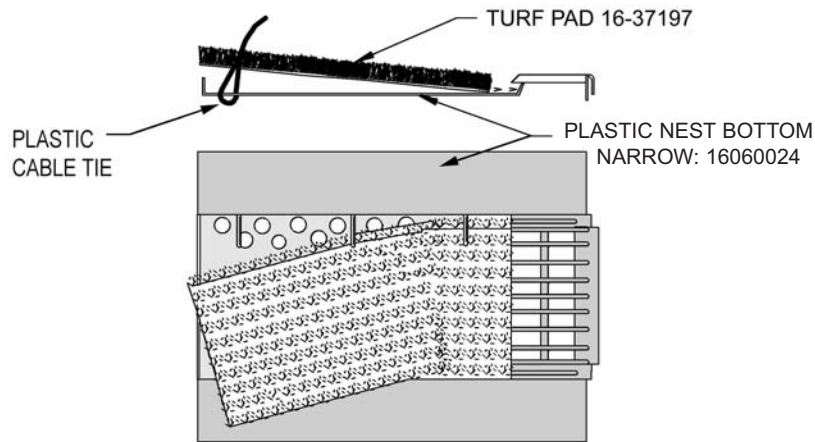
16060024 : Bottom with Grill

16-37197 : 5.63 x 9.63 Turf Pad

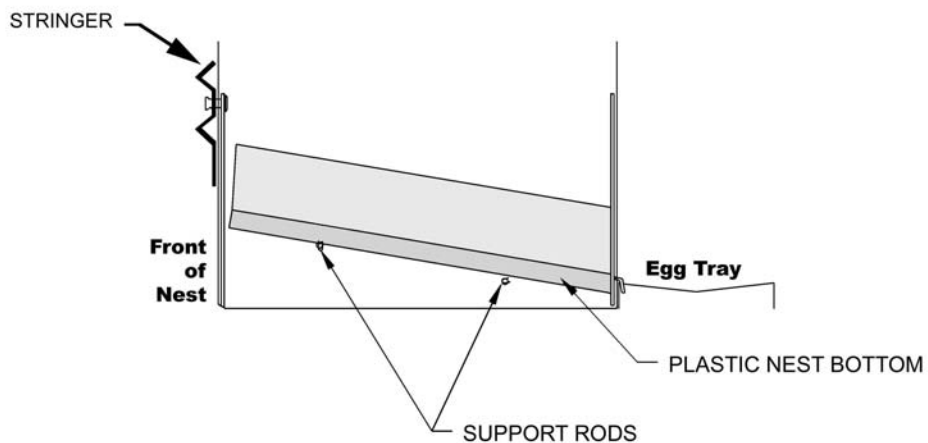
16-37199 : Tie: Cable Outdoor 7-1/2"

## ASSEMBLY OF TURF TO NEST BOTTOM

1. Insert turf under three fingers on right side.
2. Insert turf under three fingers on left side.
3. Be sure turf lays flat in bottom.



TURF SHOWN IN PLACE



## 61512201 for 9.6" holes

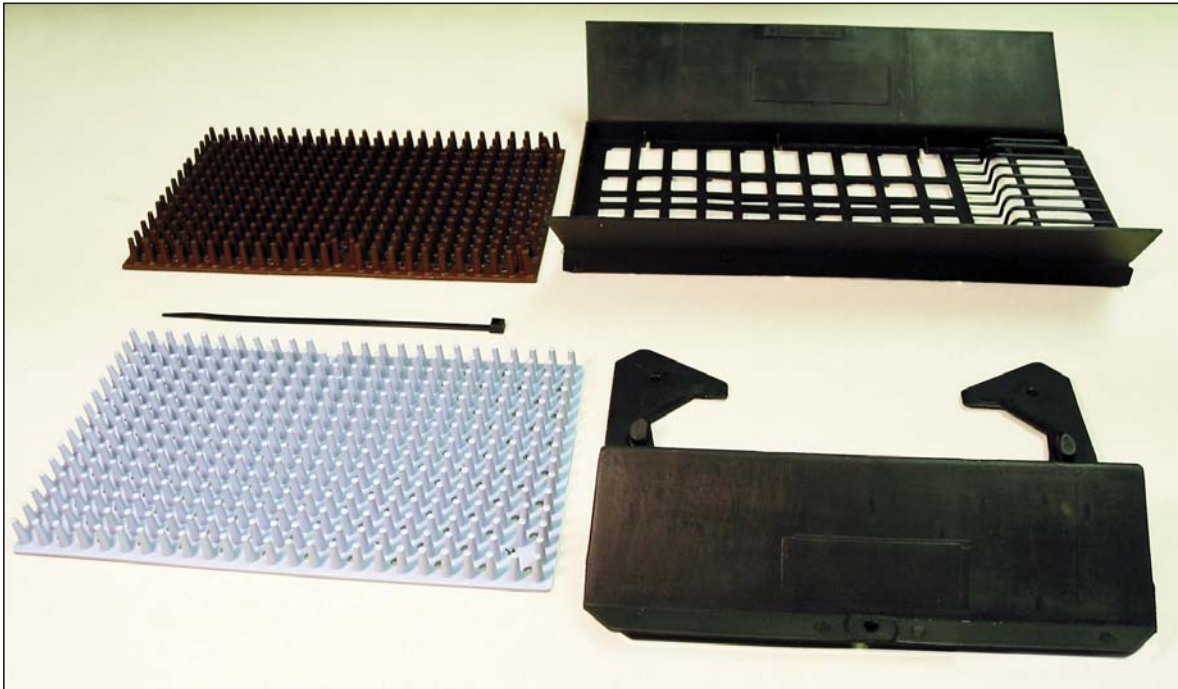
Kit: 20 Hole, Plastic btm w/grill, brown finger pad, front

16060024 : Bottom with Grill

16-13185720 : 5.63 x 9.63 Finger Pad

16-37199 : Tie: Cable Outdoor 7-1/2"

16-37362 : Front



## 61512601

KIT, 20 HOLE, BLUE FINGER PAD

16-37206 Pad: Nest Finger - Blue

16060024 Bottom: Nest-SEGS-Narr

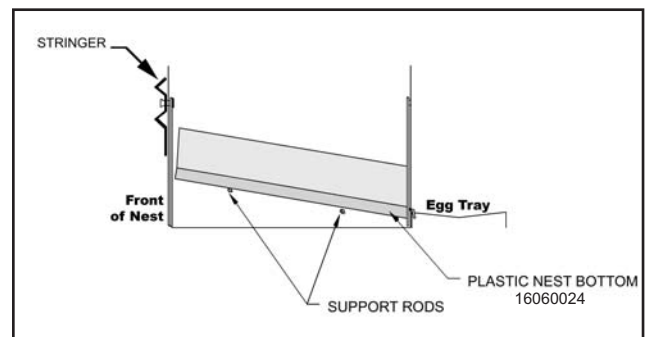
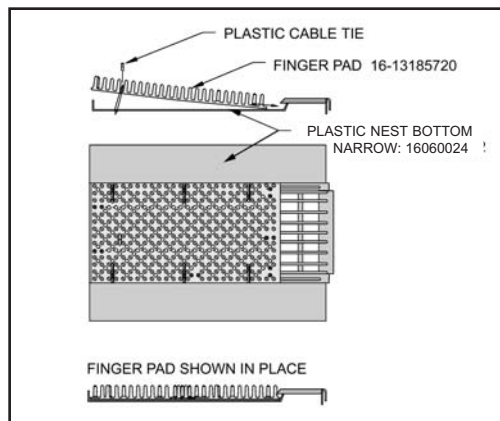
16-37362 Front: Nest-SEGS-Narr

16-37199 Tie: Cable Outdoor 7-1/2"

### ASSEMBLY OF FINGER PAD TO NEST BOTTOM

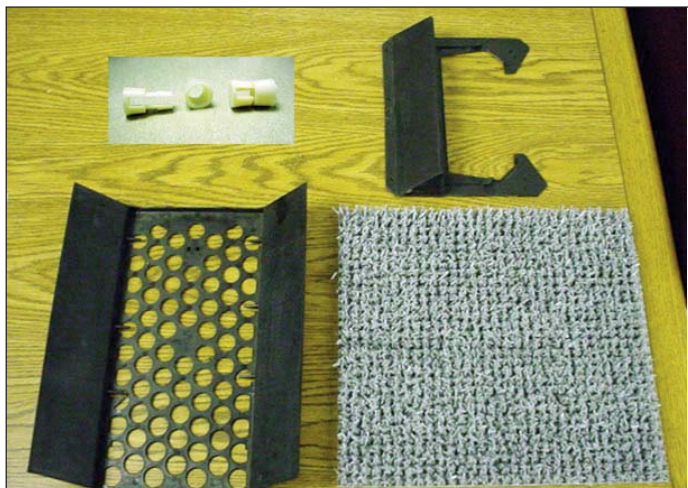
1. Insert pad under (3) fingers on right-hand side.
2. Insert pad under (3) fingers on left-hand side.
3. Insert plastic cable tie up from the underside of the plastic nest bottom through small hole (matching on the nest finger pad) through the finger pad, back down through adjacent hole in the finger pad, through large hole in the plastic nest bottom. Secure the plastic cable tie.

Do not over-tighten tie or pad may buckle.



## 61513402 for 9.6" holes

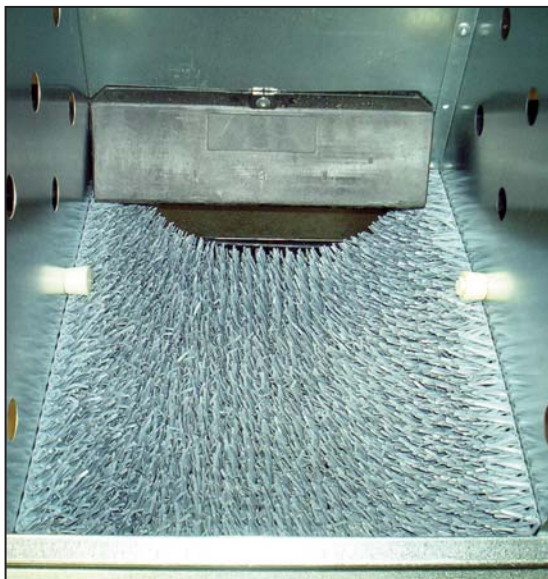
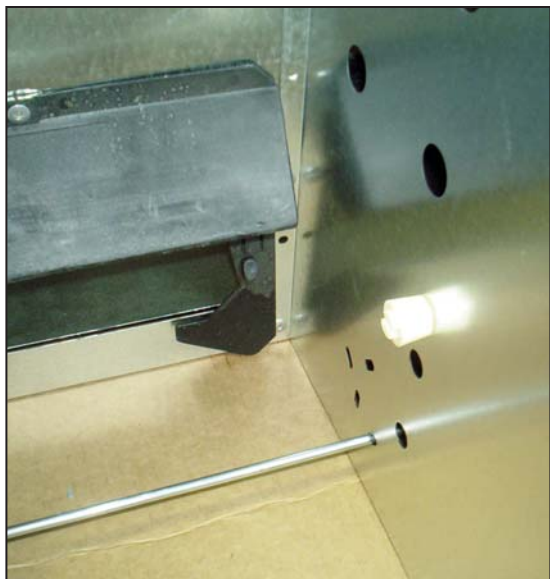
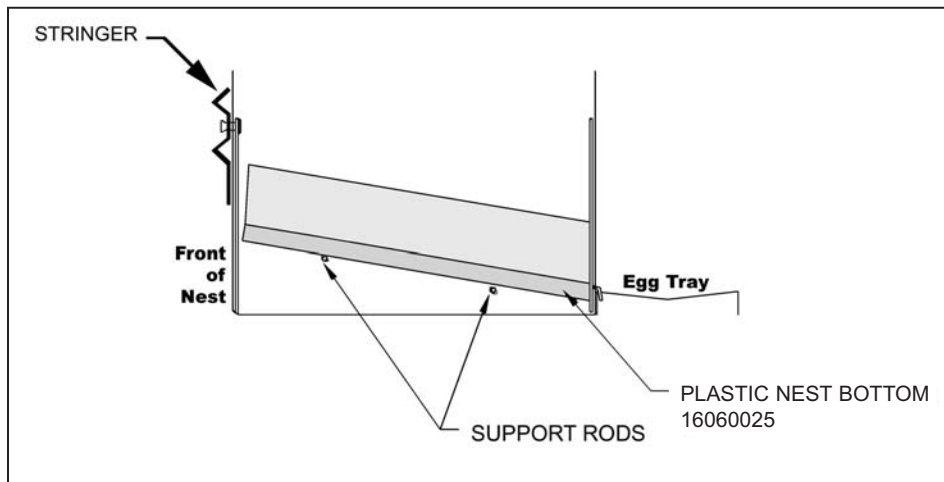
Kit: 20 hole, plastic btm. less grill, full turf 12x13, front



16-37193 PAD: NEST TURF GRAY 12  
16060025 BTM: NEST - NO GRID - N  
16-37362 FRONT: NEST-SEGS-NARR  
JD3922 RETAINER,BASKET

### ASSEMBLY OF FULL TURF AND NEST BOTTOM

1. Insert Nest Bottom in Nest Hole as shown
2. Install basket retainers into the nest partitions as shown.
3. Insert pad on bottom and clipped under basket retainer to secure.



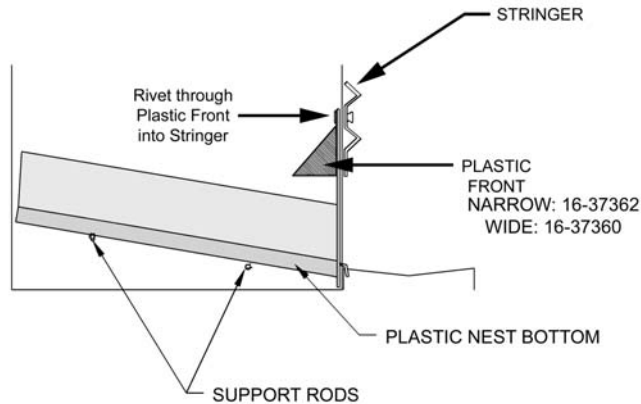
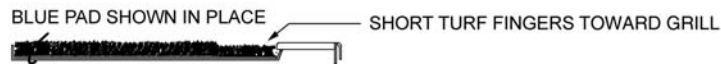
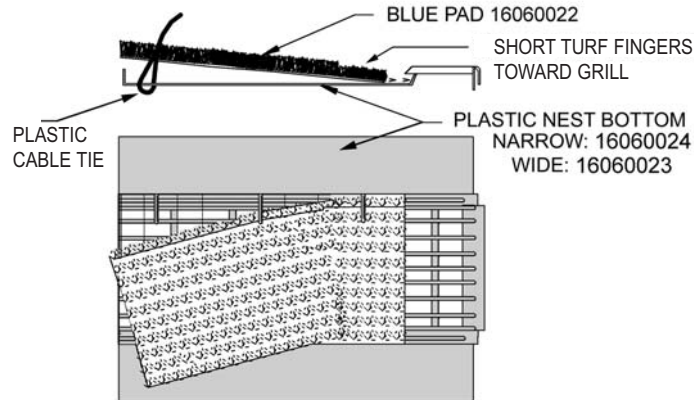
**61512701** for 9.6" holes  
 Kit: 20 hole, blue open pad dir



- 16-37362** : Front
- 16060022**: Pad,Blue PL 5.63"x 9.75" Dir
- 16060024**: Bottom, PL Nest Narr Open Base
- 16-37199** : Tie: Cable Outdoor 7-1/2"

**ASSEMBLY OF BLUE DIRECTIONAL PAD TO NEST BOTTOM**

1. Orient pad with bent fingers toward grill in bottom.
2. Insert blue pad under three tabs on right side.
3. Insert blue pad under three tabs on left side.
4. Be sure blue pad lays flat in bottom.



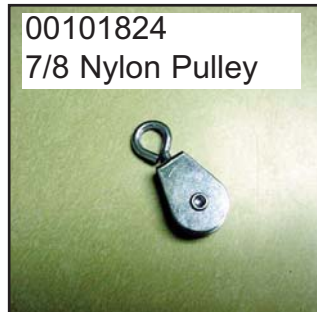
# SUSPENSION COMPONENTS



## Cable Sleeves



## Cable Clamps



- 00101865 HANDLE LONG ELEC. 8'
- 00101691 CABLE 3/16" 7 X 7 WEAVE
- 00101683 CABLE 1/8" 7 X 7 WEAVE