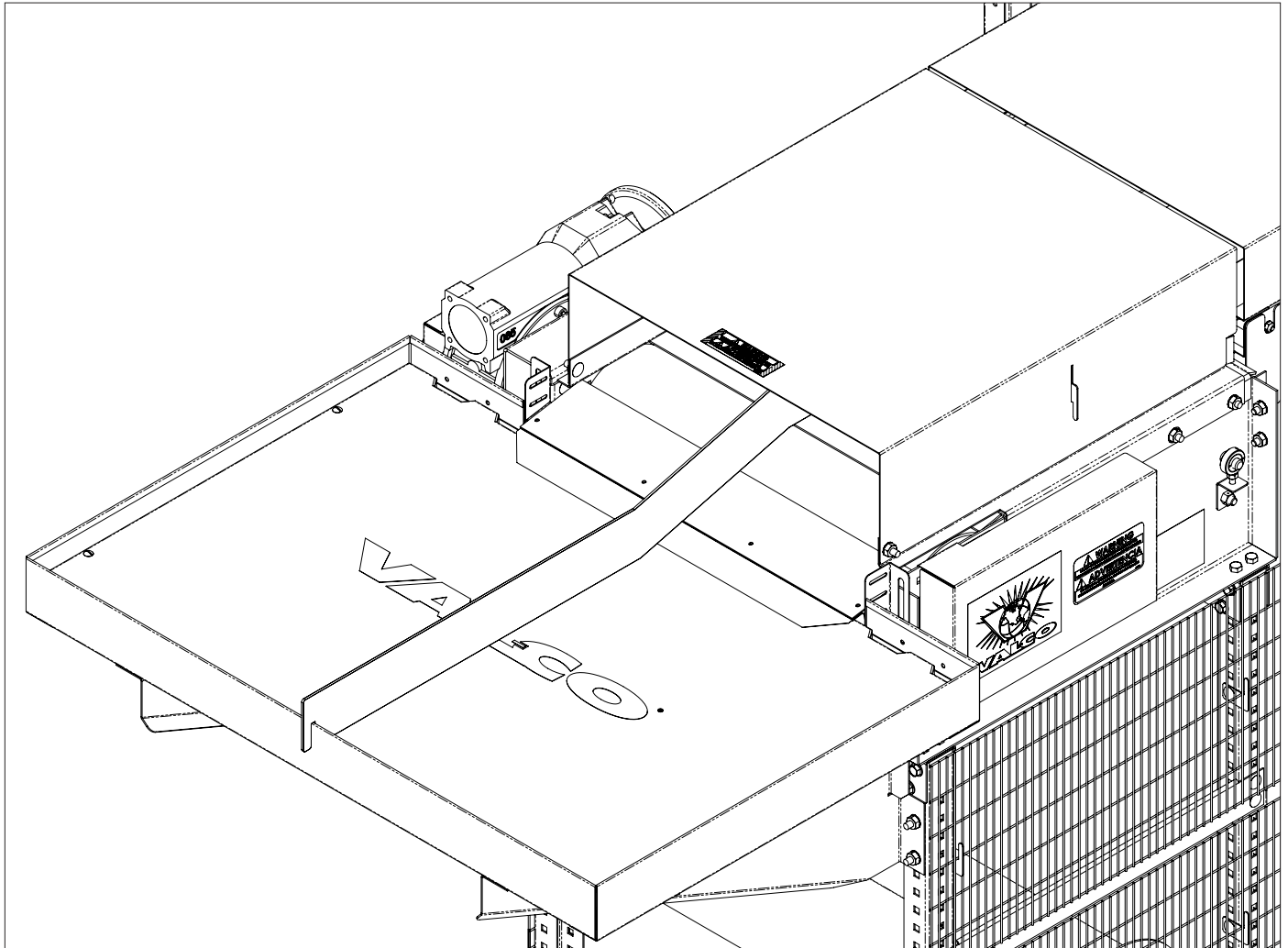




Belt Divider System

Installation Quick Sheet



The Belt Divider System is designed to work with Community Nest Systems manufactured after March 2024. If installing the Belt Divider System into a Community Nest System manufactured before March 2024, please contact your Val-Co® Sales representative for details as to what new parts to order and/or details on how to field retrofit your current install to enable the installation of the Belt Divider System.

Belt Divider System Assembly

Limitations

The belt divider system is not currently compatible with the following community nest options:

PART #	DESCRIPTION
INCOMPATIBLE COMMUNITY NEST OPTIONS	
631390	EGG COLLECTION TABLE, DOUBLE NEST
631524	EGG ELEVATOR (<i>and all Two-Tier Nests</i>)
631707	DOUBLE NEST, FLAT TOP, WITH EXTENDED BACKS
631709	DOUBLE NEST, SHINGLED, WITH EXTENDED BACKS
631721	5' BELT TRANSFER, STANDARD
631722	5' BELT TRANSFER WITH SLAT SUPPORTS
631727	EGG COLLECTION TABLE, STANDARD

Belt Divider Kit Descriptions and Ordering

NOTE: All kits are ordered on a 1:1 basis unless otherwise noted. For example, if ordering (20) 631706, one would also order (20) 631779.

PART #	DESCRIPTION	PART #	DESCRIPTION
BELT DIVIDER KITS		USED WITH EXISTING KITS/ASSEMBLIES	
631779	NEST, BELT DIVIDER KIT	631706	DOUBLE NEST, FLAT TOP, STANDARD
		631708	DOUBLE NEST, SHINGLED, STANDARD
631780	EXPELLER, BELT DIVIDER KIT	631724	EXPELLER, FLAT ROOF
		631725	EXPELLER, SHINGLED ROOF
		631726	EXPELLER, FLAT TOP, NO ROOF
631781	CROSSOVER, BELT DIVIDER KIT	631730	CROSSOVER, 4', PLASTIC
		*631787	FRAME, TAKE-UP, EGG ROOM, 4'
631782	BELT DRIVE, BELT DIVIDER KIT	-	(Order 1 per system)
631783	12" FEOR, BELT DIVIDER KIT	630601	KIT, EGG BELT, FEOR, 12"
631784	24" FEOR, BELT DIVIDER KIT	630602	KIT, EGG BELT, FEOR, 24"
631785	48" FEOR, BELT DIVIDER KIT	630603	KIT, EGG BELT, FEOR, 48"
631786	72" FEOR, BELT DIVIDER KIT	630604	KIT, EGG BELT, FEOR, 72"

NOTE: The 4' egg room take-up frame (631787) takes the place of a FEOR through-wall kit (630601-630604) and uses the belt divider crossover kit (631781).



The following instructions pertain to installations that have an Egg Belt Drive Unit (631790), which incorporates a weighted roller into its design for belt tensioning. Instructions for how to install the Belt Divider System on other versions of the Egg Belt Drive Unit (630855), which do not include a weighted roller in its design (the roller system is in another location), can be found at the end of this quick sheet.

Assembly Instructions

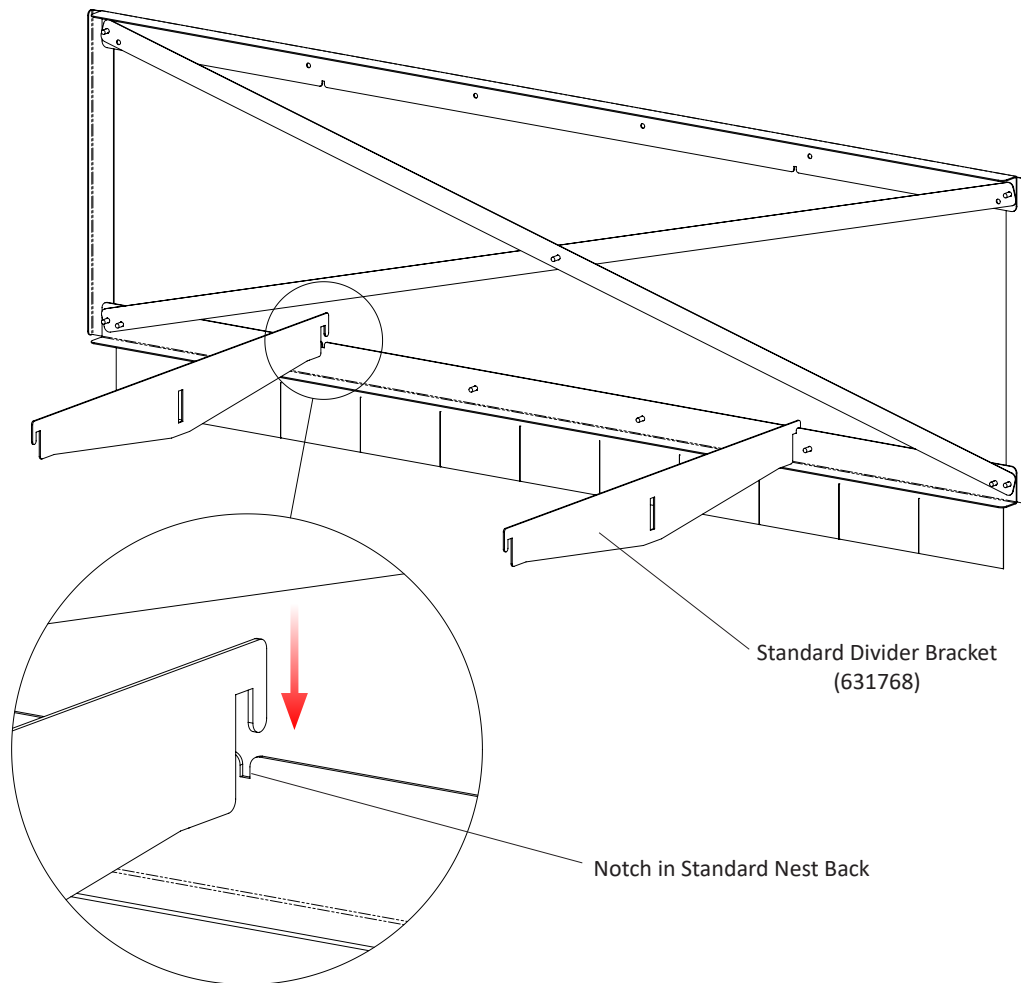
Bracket Installation

In these instructions, brackets are considered metal parts that either cross the belt or support others that do.

Nest Bracket Installation (631779)

The standard divider brackets (631768) hook into notches in the standard nest backs (631597) that are located approximately 12" [30.5cm] in from each side of the nest, with (2) notches per 4' nest section, as shown in Figure 1.

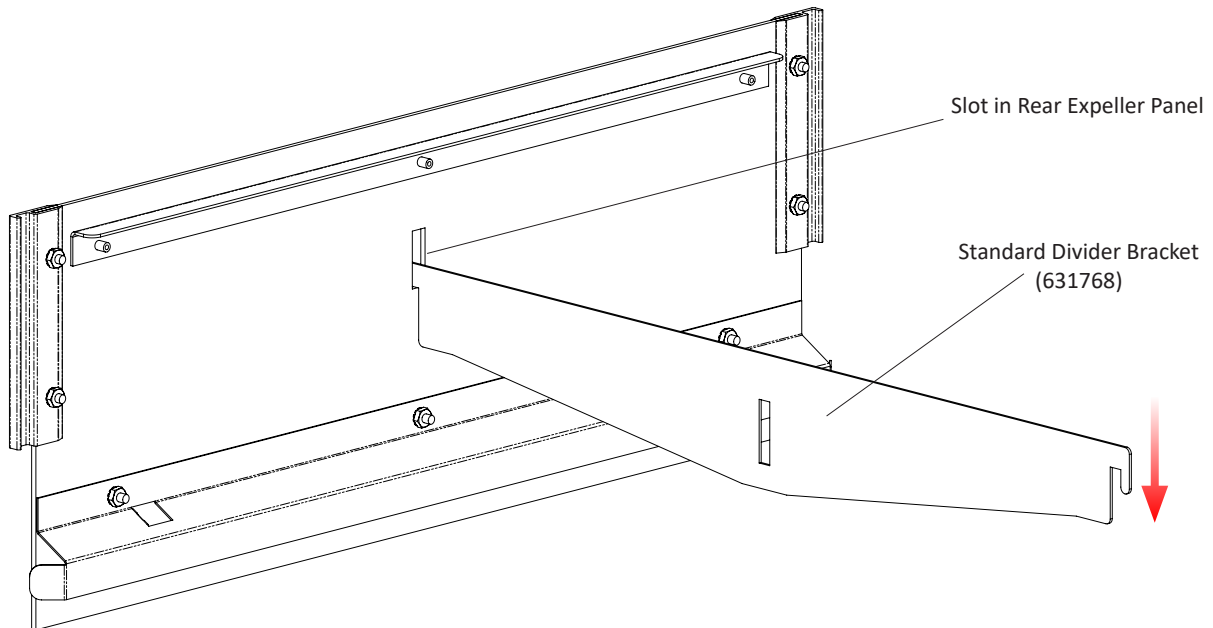
Figure 1



Expeller Bracket Installation (631780)

The standard divider brackets (631768) hook into the slots in the rear expeller panel (631298) on either side of the belt, with (1) notch per 2' expeller section, as shown in Figure 2.

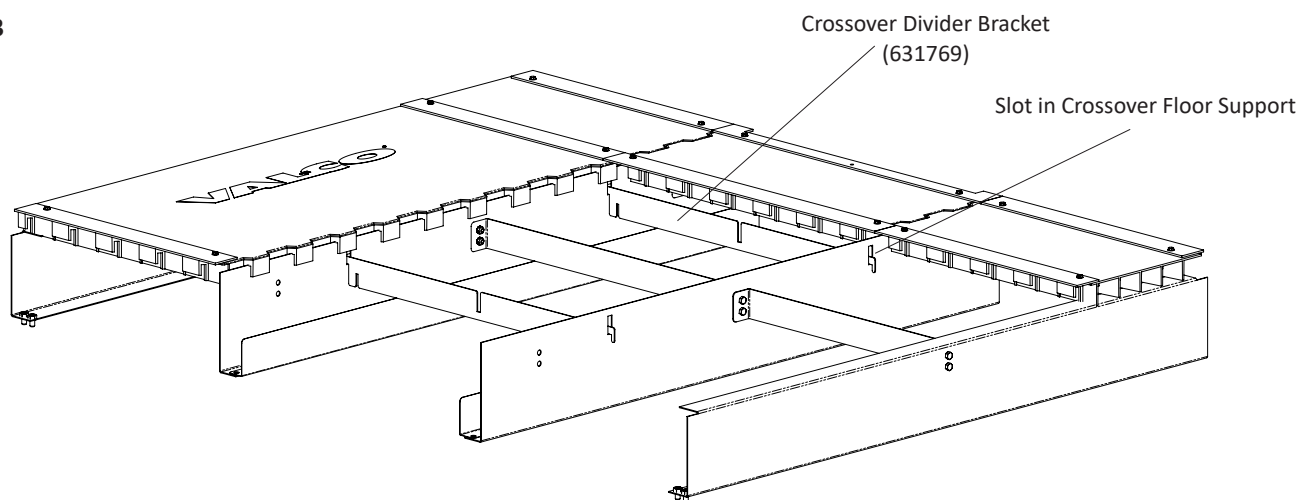
Figure 2



Crossover Bracket Installation (631781)

The crossover divider brackets (631769) hook into the slots in the crossover floor support (631448) on either side of the belt, with (2) notches per 4' crossover section, as shown in Figure 3.

Figure 3

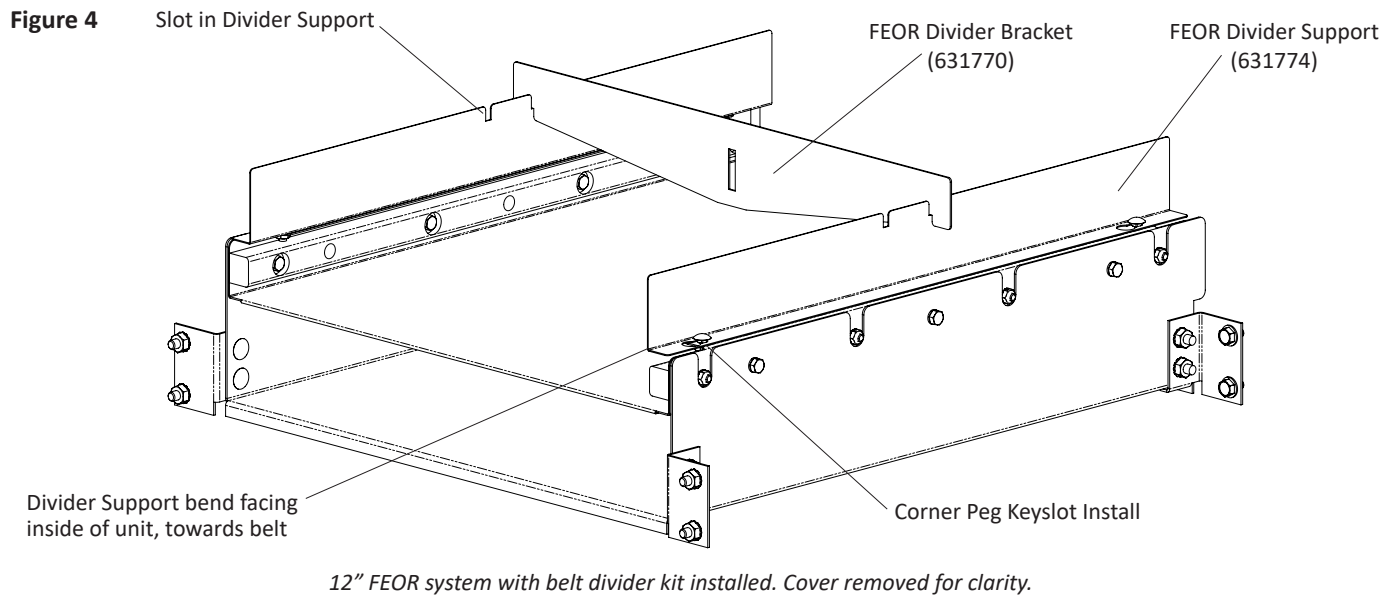


NOTE: The 4' egg room take-up frame (631787) also uses crossover divider brackets (631769), which hook into the slots in the crossover floor support (631448) on either side of the belt, (2) per 4' crossover section, and installed the same as above.

Through-Wall Bracket Installation (631783-631786)

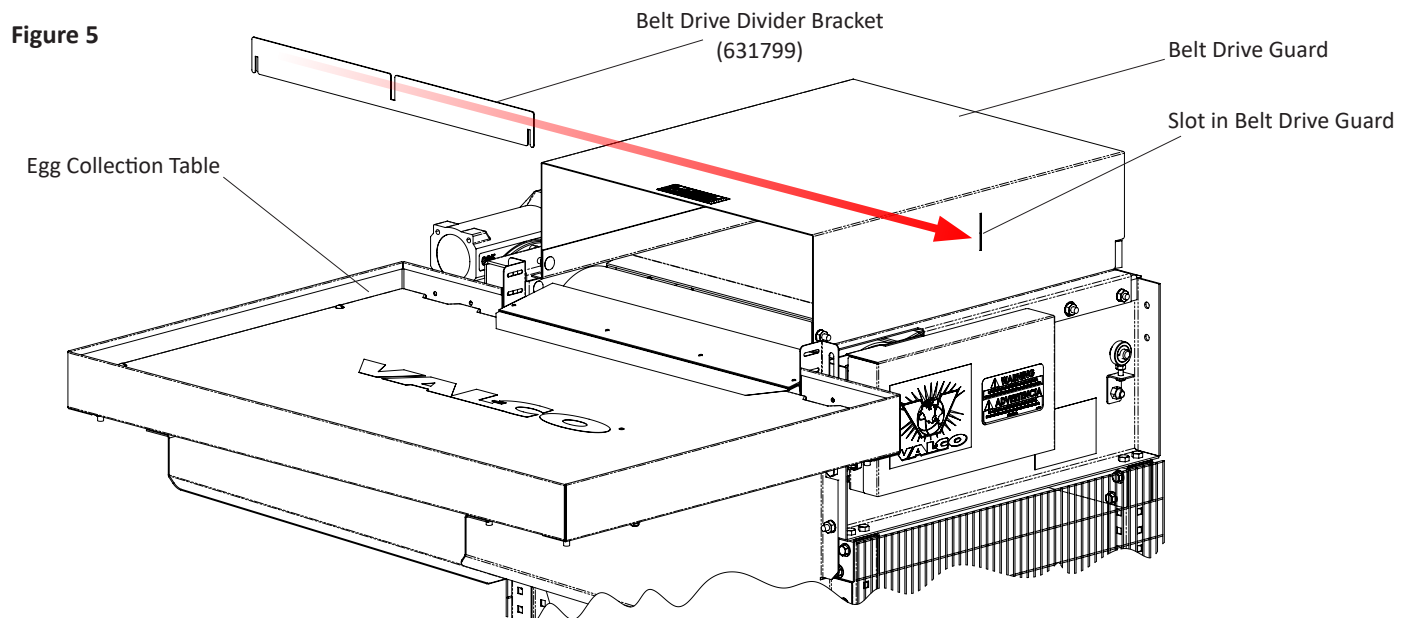
Assembly varies depending on the type of through-wall option being installed.

Each kit (631783-631786) includes (2) divider supports unique to the FEOR kit length ordered (631774-631777). These divider supports have pre-punched keyslots that assemble to the four corner pegs of the FEOR unit that the cover hooks onto. Remove the cover and locate the bends of the divider supports inside, towards the belt, and install them *underneath* the FEOR unit cover so that it isn't necessary to disassemble the belt divider to remove the cover. Once installed, the FEOR divider brackets (631770) can be assembled onto the notches in the divider supports. 12" and 24" EOR systems use (1) bracket, 48" systems use (2) brackets, and 72" systems use (3) brackets. Figure 4 shows how the divider brackets attach to the divider supports.



Belt Drive Bracket Installation (631799)

The egg belt drive unit (631790) has a belt drive guard (631798). It contains (2) slots to support a belt drive divider bracket (631799). Install the belt drive divider bracket by sliding it through one slot of the belt drive guard and into the second slot on the opposing side, locking down the bracket into the slot by matching up its slots with the slots in the belt drive guard, as shown in Figure 5.



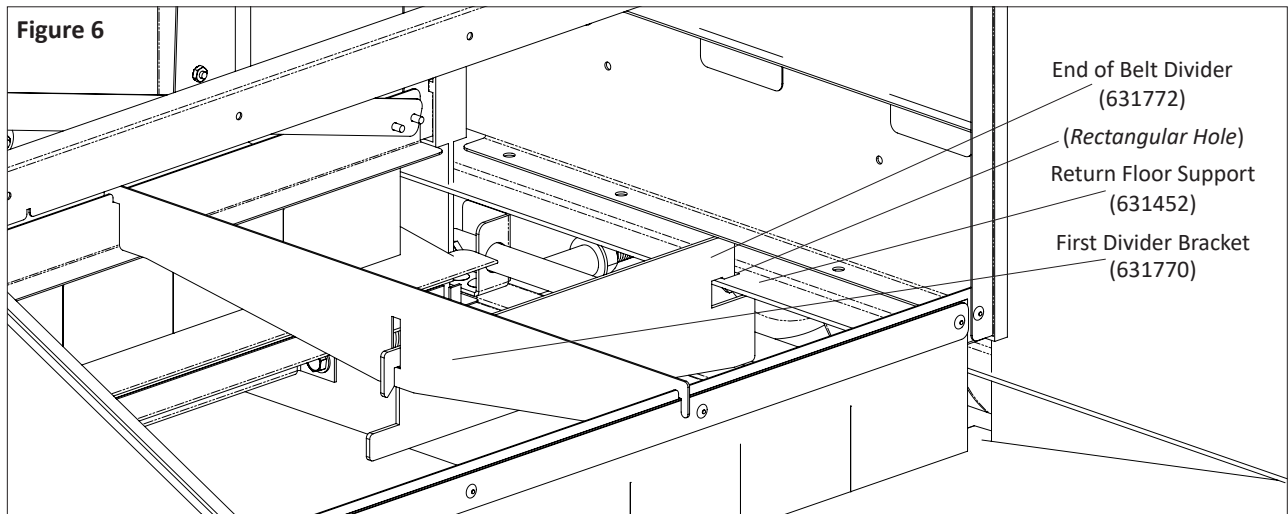
Divider Installation

In these instructions, dividers are considered flat plastic pieces that run parallel to the belt, doing the belt division.

End of Belt Divider Installation (631772)

The short end of belt divider (631772) hooks into the small rectangular hole in the return floor support (631452), in the end of belt kit. The other end hooks into the first divider bracket (631770), as shown in Figure 6.

NOTE: Crossing “x-braces” have been hidden in the nest back shown in Figure 6 for clarity.

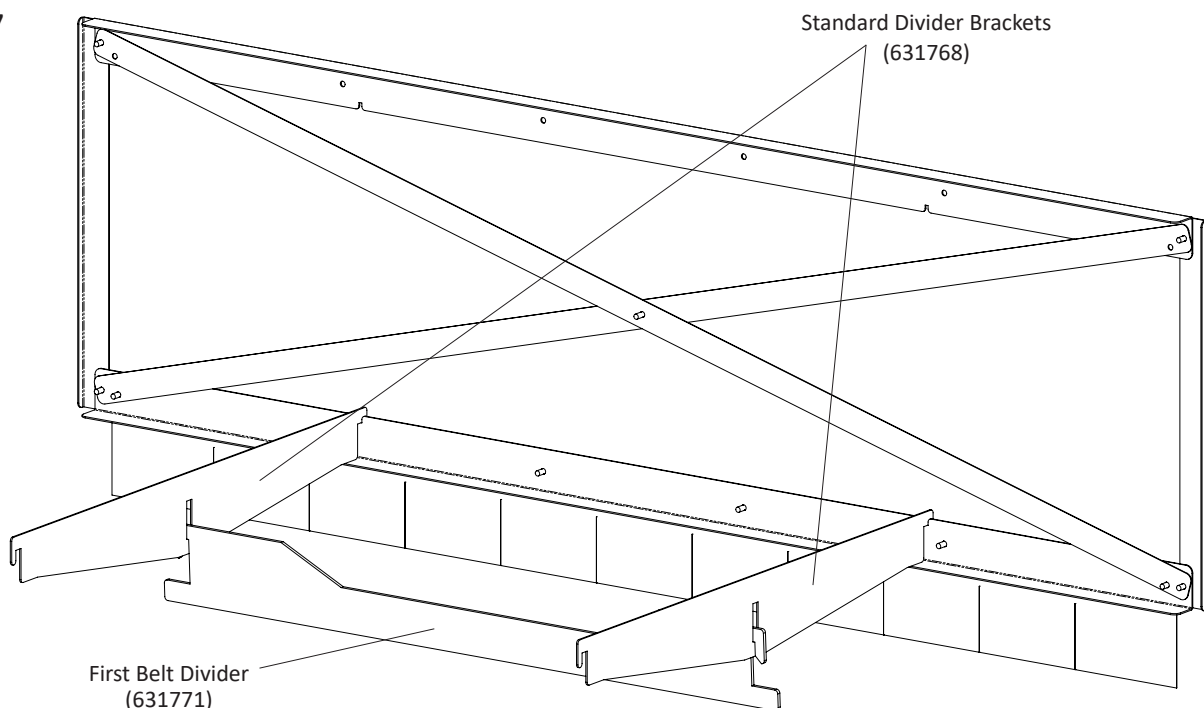


NOTE: The end of belt divider (631772) is installed where the elevation of the belt changes. It is critical to inspect for belt interference once installed. Trim end of belt divider to size as needed to prevent contact with the belt. If trimming is necessary, sharp edges and burrs should be removed.

Standard Belt Divider Installation (631771)

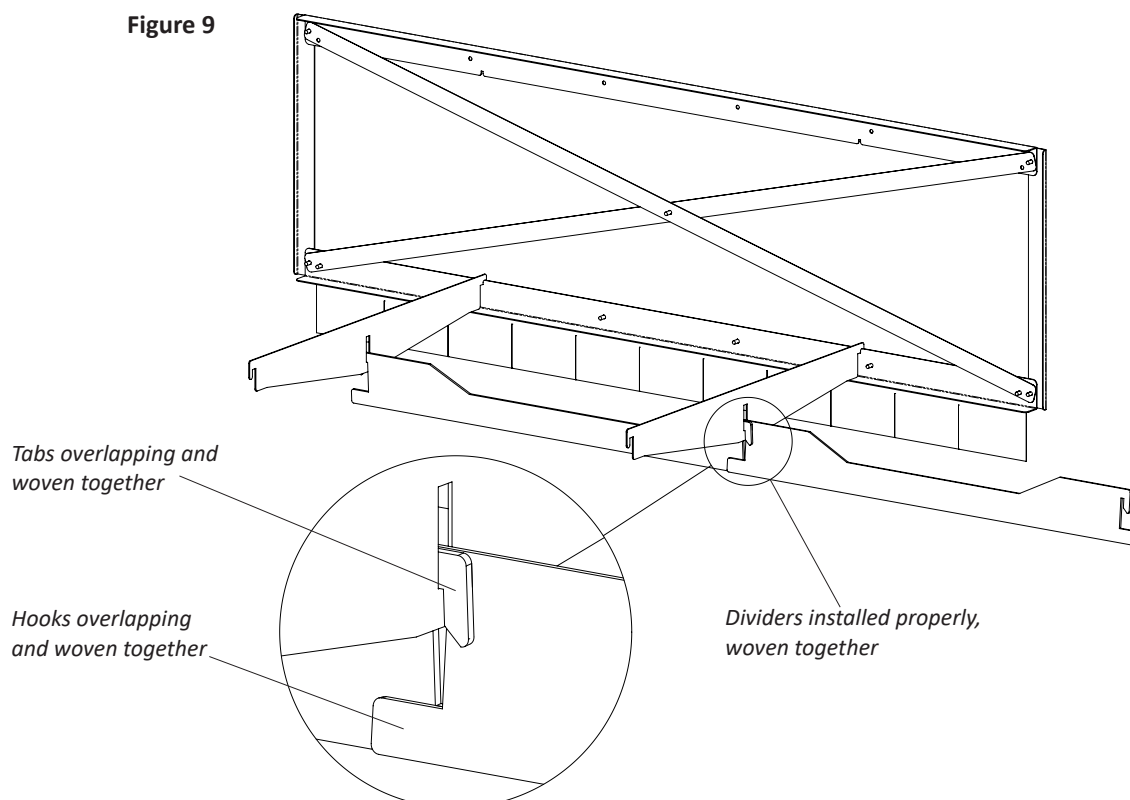
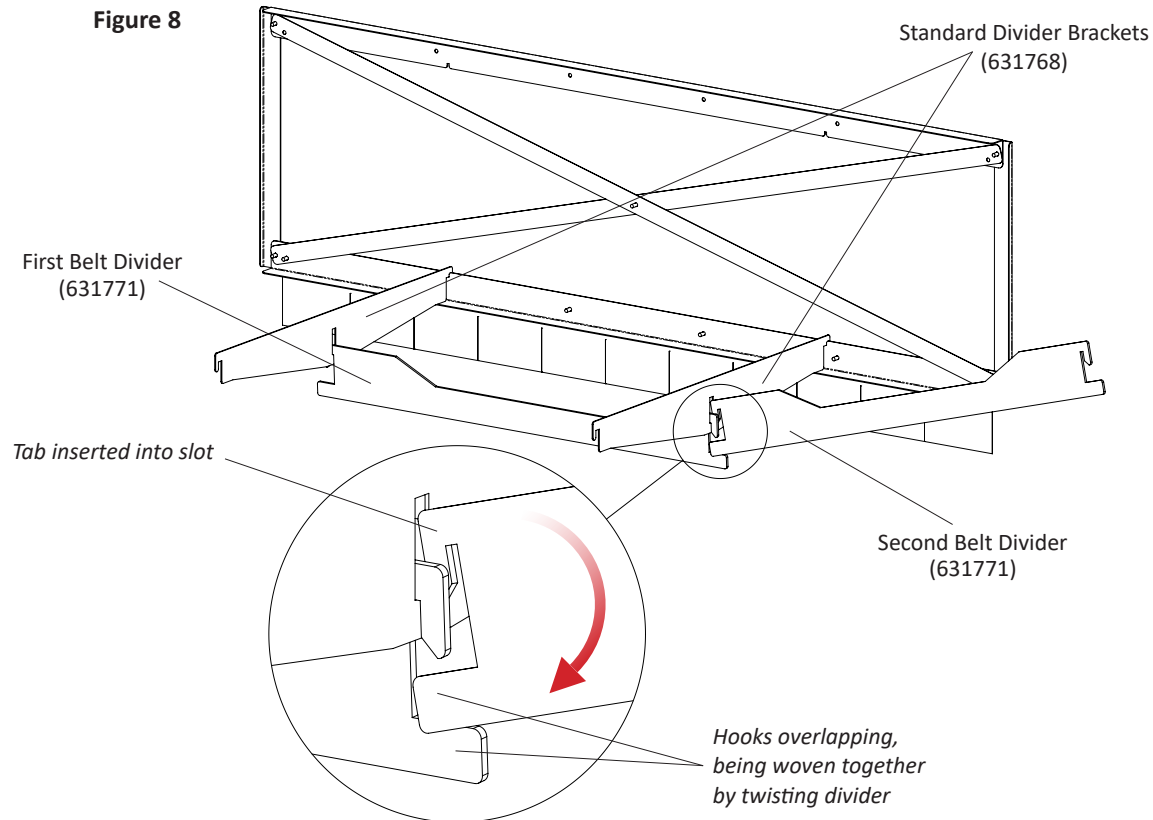
1. The standard belt divider (631771) is used throughout the nest; it connects the same way to each type of divider bracket used in the nests, crossovers, and expellers. Install the tabs of the first belt divider into the slots of (2) standard divider brackets (631768), as shown in Figure 7.

Figure 7



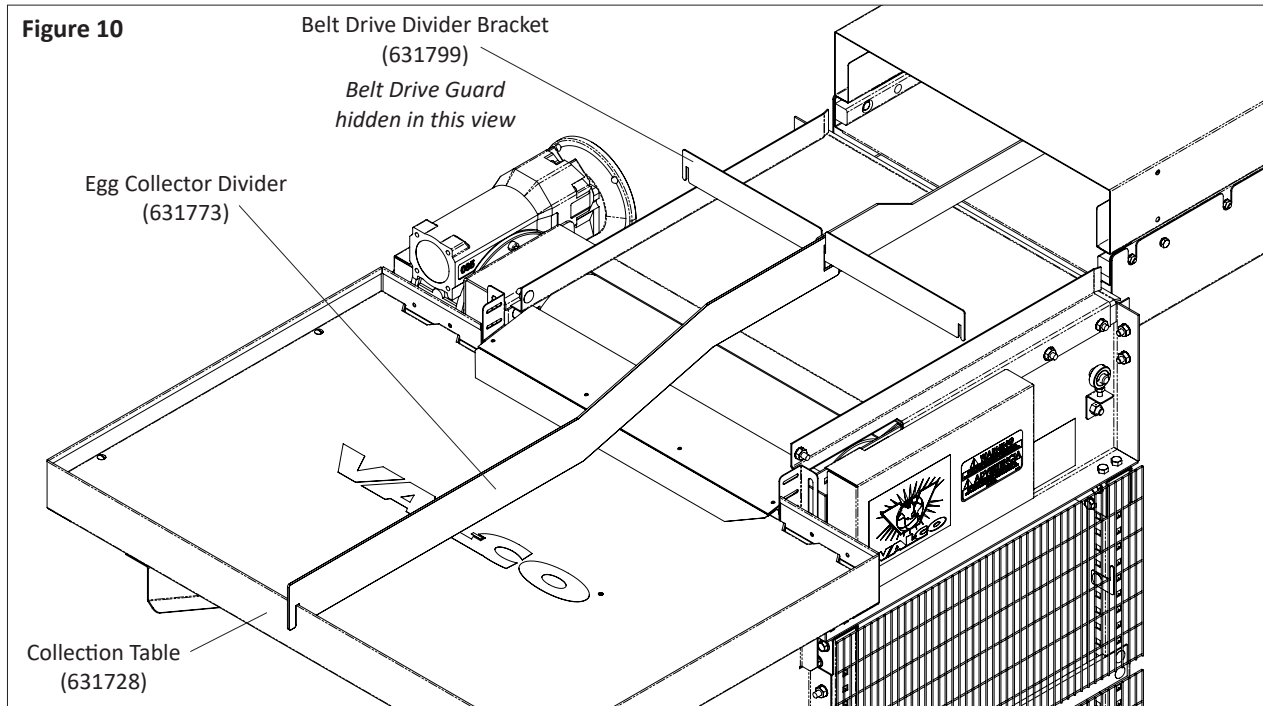
Standard Belt Divider Installation (631771) - continued

2. Continue installing standard belt dividers (631771) as shown in Figures 8 and 9. Install the dividers so that they are woven together to prevent eggs from pushing through the joints. After installing the first divider, insert the tabs of the second divider into the slot in the divider bracket at an upward angle and twist it into place, so that the hooks overlap and are woven together, as shown in Figure 8. Continue installing dividers as shown in Figures 8 and 9.



Egg Collector Divider Installation (631773)

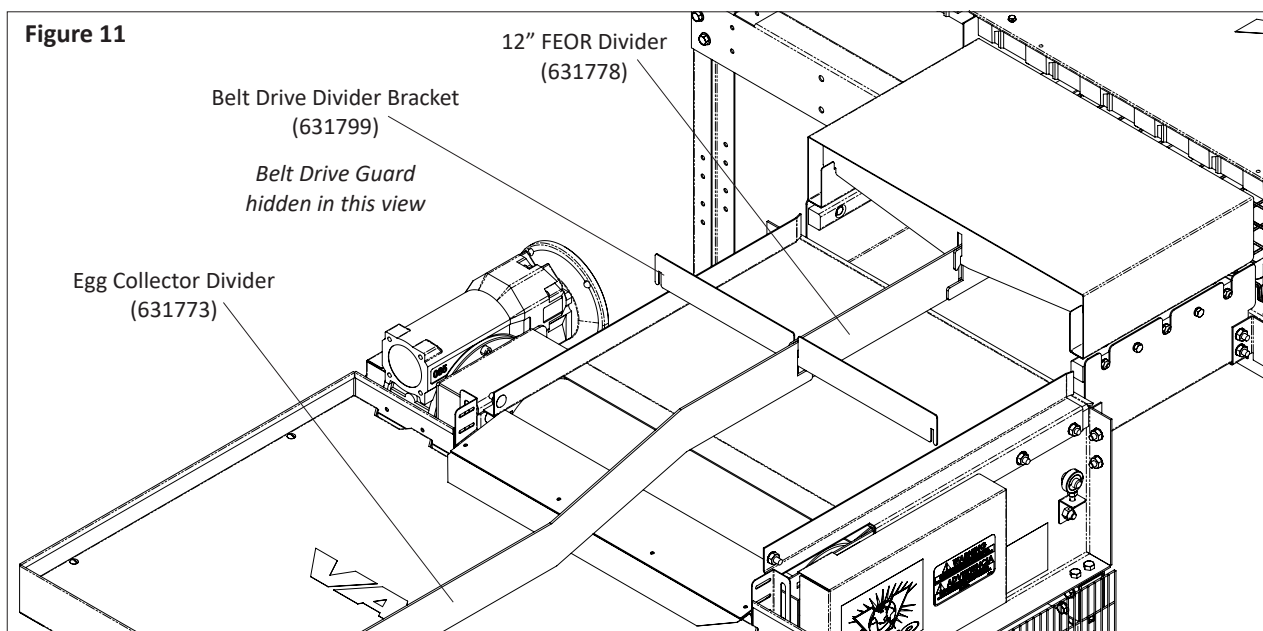
The egg collector divider (631773) installs onto the belt drive divider bracket (631799), located on the belt drive and hooks onto the far edge of the collection table (631728), as shown in Figure 10. **NOTE:** The egg belt drive unit's belt drive guard (631798) that the belt drive divider bracket attaches to, is hidden for clarity in Figure 10.



NOTE: The egg collector divider (631773) is installed where the elevation of the belt changes. It is critical to inspect for belt interference once installed. Trim egg collector divider to size as needed to prevent contact with the belt. If trimming is necessary, sharp edges and burrs should be removed.

12" Through Wall Divider Installation (631778)

In most FEOR kit options (631787, 631602-631604), standard belt dividers are used up to the belt drive. If using the 12" FEOR kit (631783) however, there is a short, 12" FEOR divider (631778) to be placed between the bracket within the FEOR kit and the belt drive divider bracket (631799) on the belt drive, as shown in Figure 11. **NOTE:** The egg belt drive unit's belt drive guard (631798) that the belt drive divider bracket attaches to, is hidden for clarity in Figure 11.



Belt Drive Bracket and Divider Installation for 630855

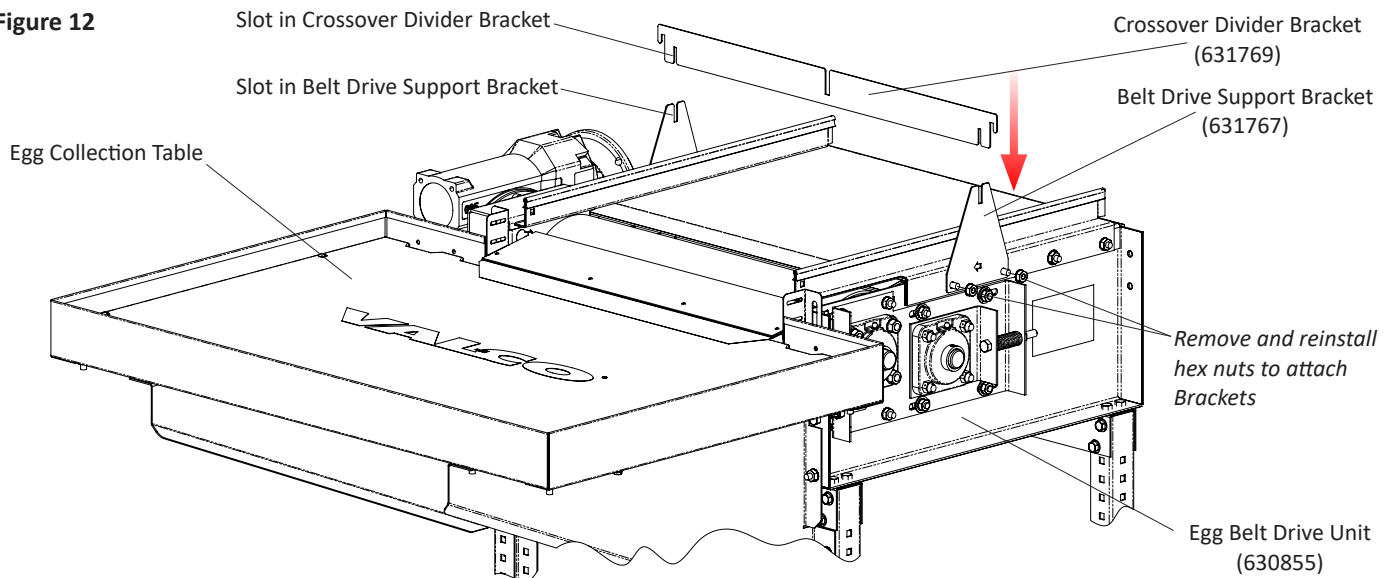


The following instructions pertain to installations that have an Egg Belt Drive Unit (630855), which does not include a weighted roller in its design (the take-up roller system is in another location). All other instructions previously given that relate to the installation of the Belt Divider System throughout a nest row still apply.

Belt Drive Bracket Installation (631782)

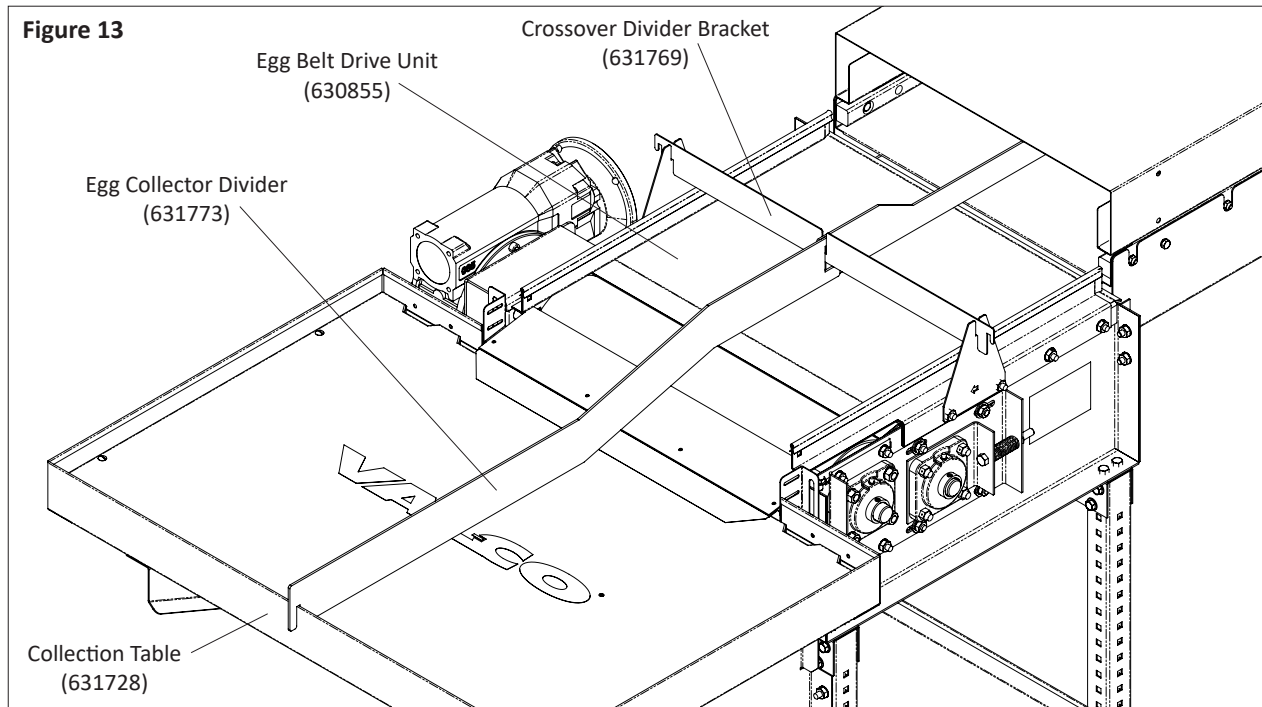
The belt drive bracket installation kit comes with (2) belt drive support brackets (631767). They are assembled to the belt drive unit by removing and reusing (2) of the (4) horizontally located nuts (and bolts) at the top of the unit, on each side. Use the nuts and bolts toward the center of the unit, not the ends. These brackets are to be installed so that the arrows are pointing toward the egg collection table. A crossover divider bracket (631769) is then installed, by matching up its slots with the slots in the belt drive support brackets, as shown in Figure 12.

Figure 12



Egg Collector Divider Installation (631773)

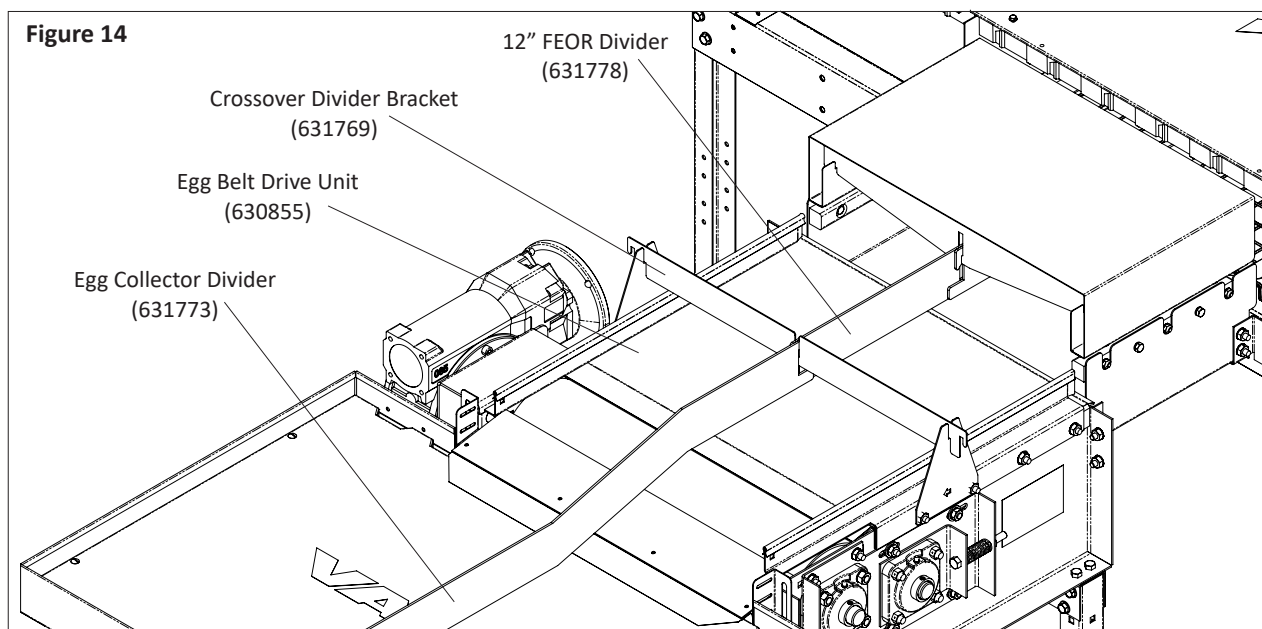
The egg collector divider (631773) installs onto the crossover divider bracket (631769), located over the belt drive and hooks onto the far edge of the collection table (631728), as shown in Figure 13.



NOTE: The egg collector divider (631773) is installed where the elevation of the belt changes. It is critical to inspect for belt interference once installed. Trim egg collector divider to size as needed to prevent contact with the belt. If trimming is necessary, sharp edges and burrs should be removed.

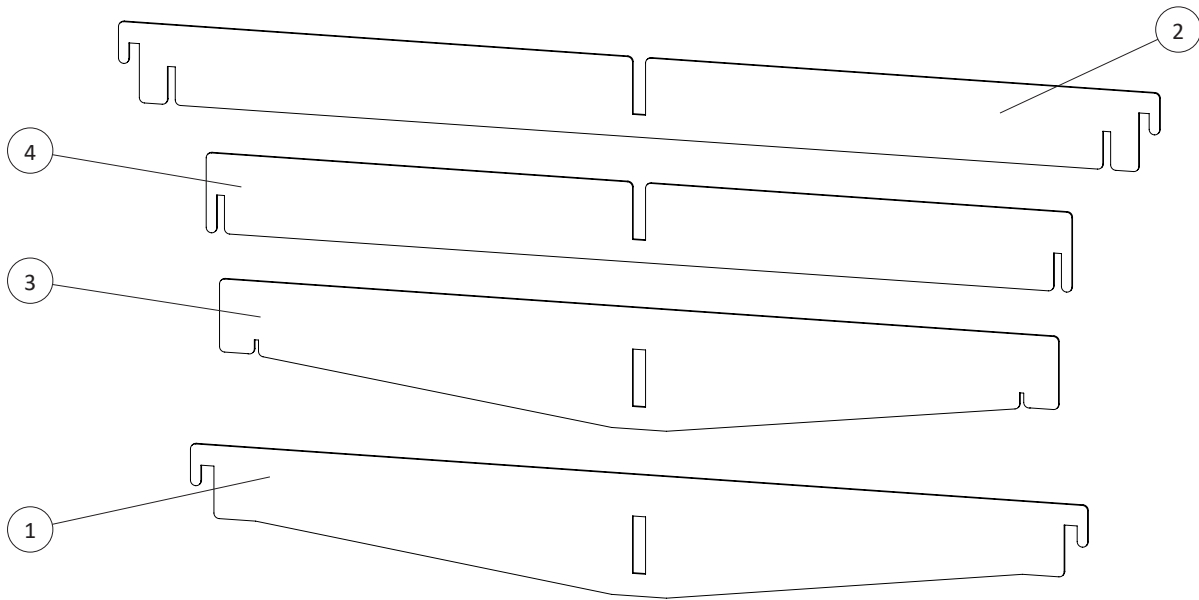
12" Through Wall Divider Installation (631778)

In most FEOR kit options (631787, 631602-631604), standard belt dividers are used up to the belt drive. If using the 12" FEOR kit (631783) however, there is a short, 12" FEOR divider (631778) to be placed between the bracket within the FEOR kit and the crossover divider bracket (631769) over the belt drive, as shown in Figure 14.



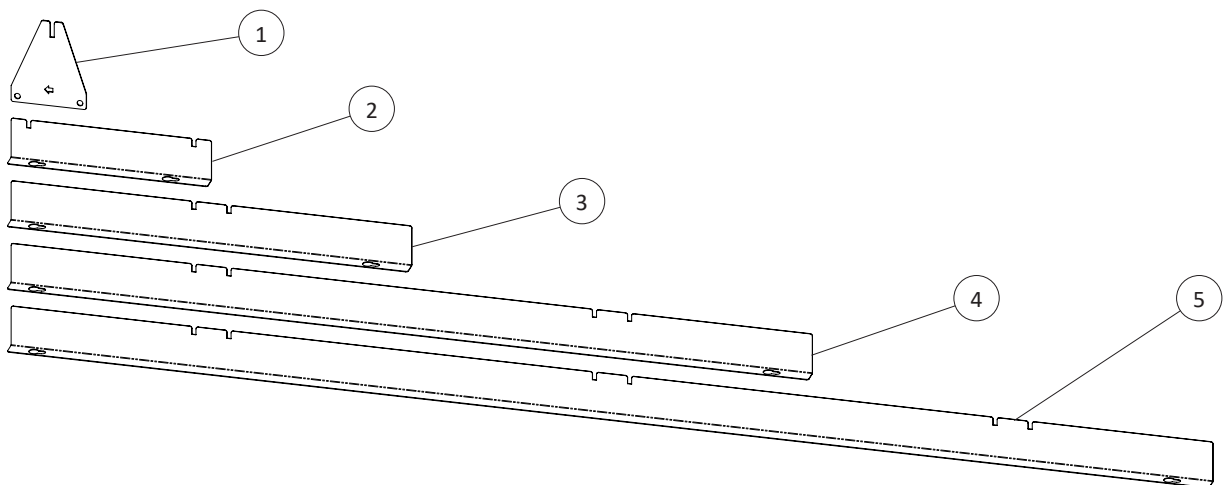
Repair Parts

Divider Brackets



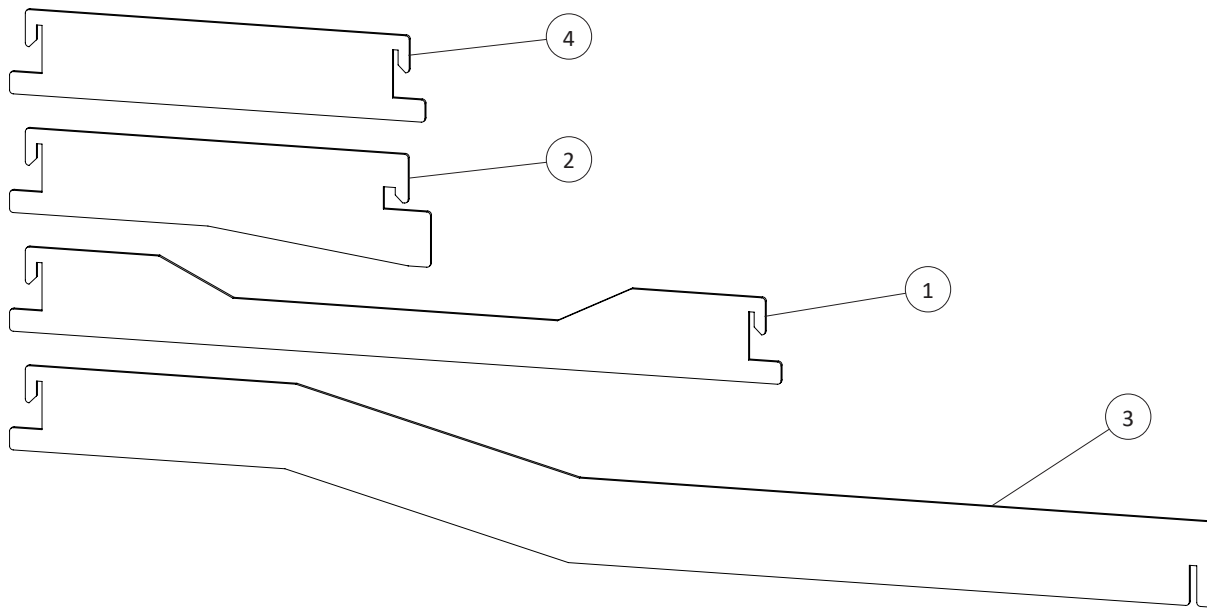
ITEM #	PART #	DESCRIPTION
EGG DIVIDER BRACKETS		
1	631768	STANDARD DIVIDER BRACKET
2	631769	CROSSOVER DIVIDER BRACKET
3	631770	FEOR DIVIDER BRACKET
4	631799	BELT DRIVE DIVIDER BRACKET

Divider Support Brackets



ITEM #	PART #	DESCRIPTION
DIVIDER SUPPORT BRACKETS		
1	631767	BELT DRIVE SUPPORT BRACKET
2	631774	12" FEOR DIVIDER SUPPORT BRACKET
3	631775	24" FEOR DIVIDER SUPPORT BRACKET
4	631776	48" FEOR DIVIDER SUPPORT BRACKET
5	631777	72" FEOR DIVIDER SUPPORT BRACKET

Belt Dividers



ITEM #	PART #	DESCRIPTION
BELT DIVIDERS		
1	631771	STANDARD BELT DIVIDER
2	631772	END OF BELT DIVIDER
3	631773	EGG COLLECTOR BELT DIVIDER
4	631778	12" FEOR BELT DIVIDER

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