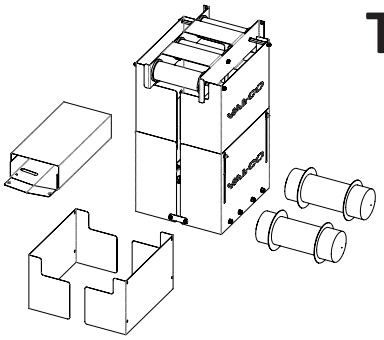
8” Polypropylene Egg Belt Take-Up Kit (413539) & Belt Instruction



990180
Quick Sheet

Installing the Take-Up

The take-up is pre-assembled and easily attached to the egg collection table (425002). *Instructions for attaching to the egg belt drive (413461) can be found in Step 11.*

1. Begin by placing the take-up assembly at the proper location toward the back of the egg collection table. (If this is a retro-fit installation you will need to disconnect the table from the trough covers and pull away from the wall to allow room for the take-up.)
2. Use (4) 5/16-18 x 5/8” hex bolts (010642), (4) 5/16” lock washers (010252), and (4) 5/16-18 nuts (010603) to secure the the take-up to the back of the egg collection table (Figure 1).
3. If necessary shorten or lengthen the take-up by loosening 1/4-20 nuts (012793) on covers and slide up or down either direction as required for correct height (Figure 2). Do this to both sides (front and back) of take-up. When finished, the guards MUST be resting on the floor.

Figure 1

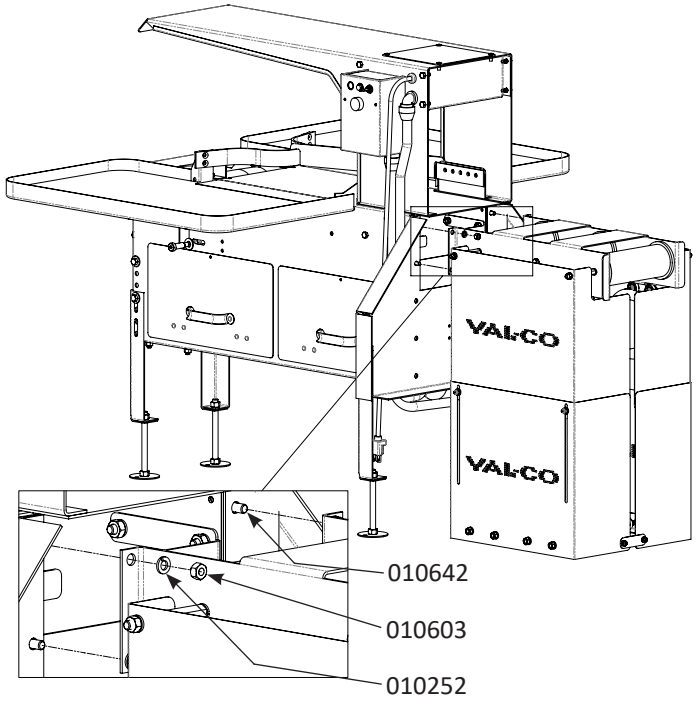
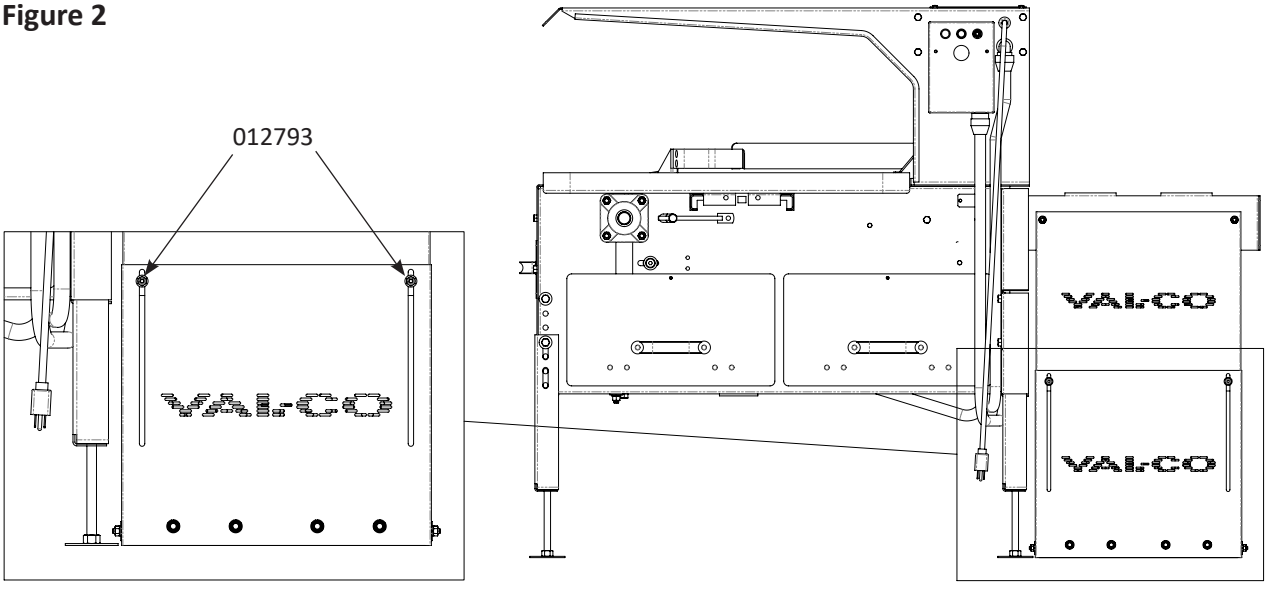


Figure 2

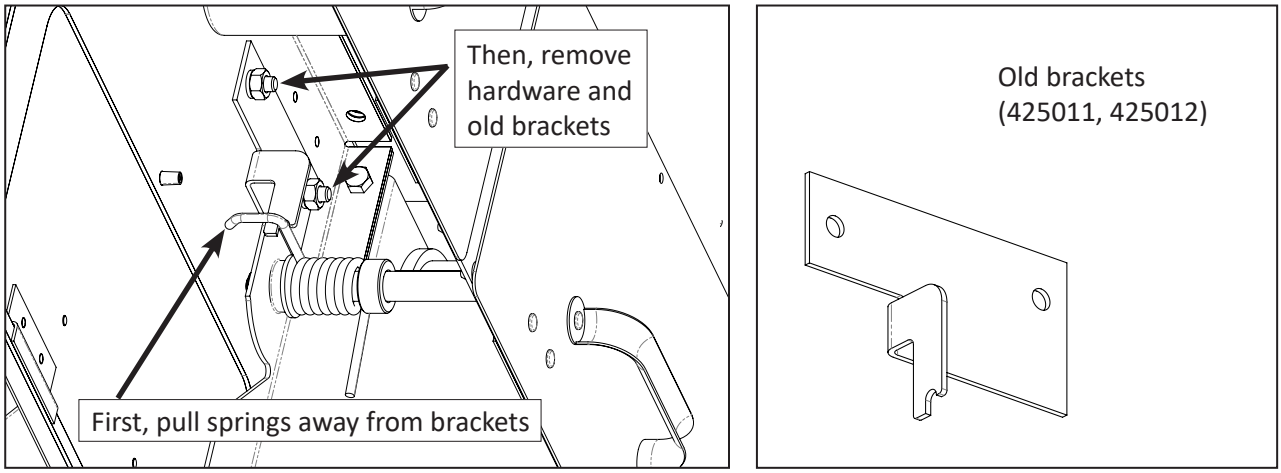


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Removing and Replacing Spring Tensioner Brackets

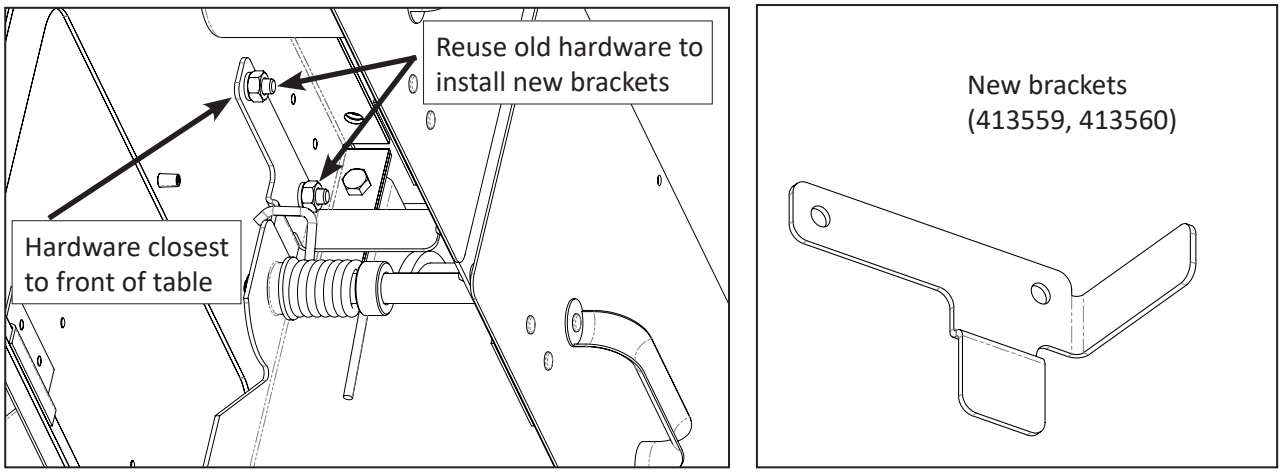
4. Remove spring tension on tensioner assembly by releasing pressure on springs. Use pliers to pull on the spring's 90° bend and pull it away from the spring tensioner bracket. Do this to both springs (Figure 3).

Figure 3



5. Remove old spring tensioner brackets (and hardware) from table, and replace with new spring tensioner brackets, reusing original hardware and hole locations. Temporarily secure brackets loosely with only 1 bolt, lock washer and nut closest to the front of the table (Figure 4).

Figure 4



6. Pivot the spring tensioner brackets so they apply tension back to the 90° bend on the springs until the bolt holes line up with bolt holes in table sides.

7. Secure spring tensioner brackets with remaining hardware and tighten.

8. Place take-up bracket against back of table and secure with 3/8 x 1-1/4 bolts included with hardware bag and previously removed lock washers and nuts.

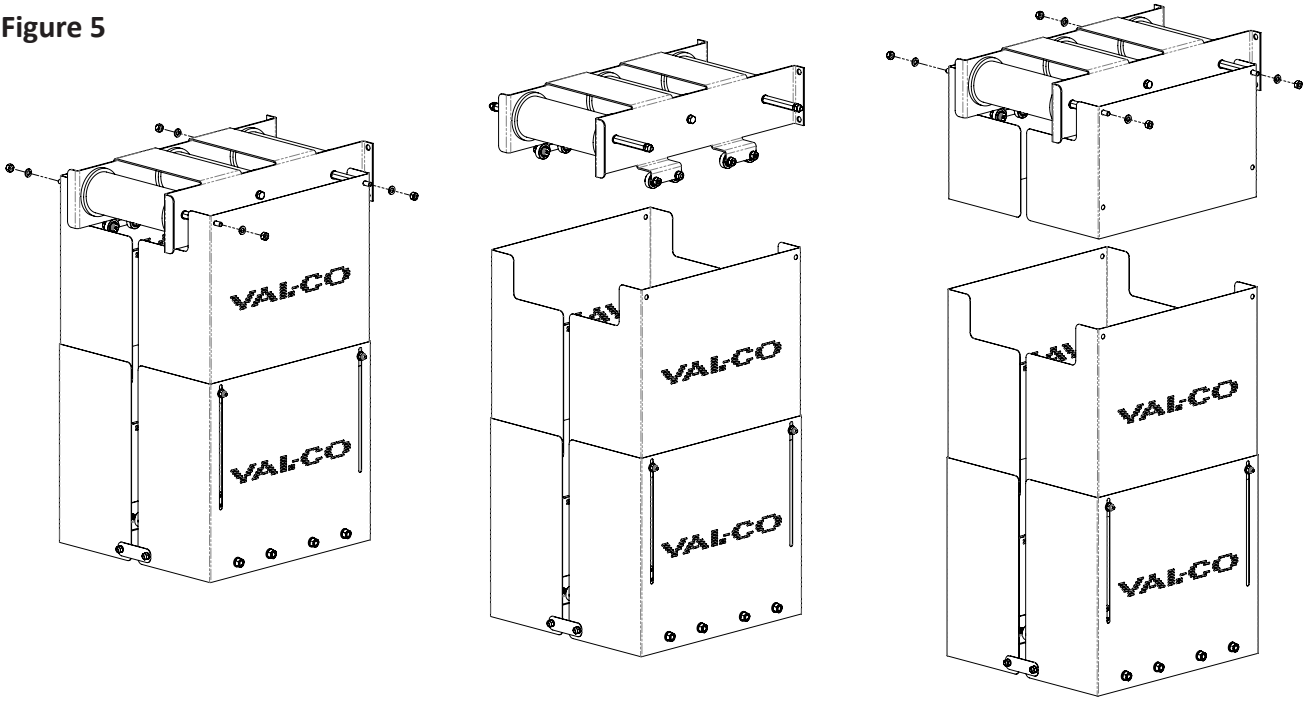
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Extending the Take-Up

Extra panels are included with kits for additional lengthening.

9. To extend panels, remove the top nuts (010603) and lock washers (010252) to release the take-up at top covers from the roller bracket. Attach extension panels to each side of roller bracket using same hardware. Now attach the take-up, at top of covers, to extension panels. Match panel holes and use supplied hardware. **THIS STEP MAY BE PERFORMED AFTER THE BELT IS THREADED OR YOU MAY LEAVE THE TOP FRONT COVER OF THE EXTENDED OR NON-EXTENDED TAKE-UP UNTIL AFTER THE BELT IS THREADED (Figure 5).**

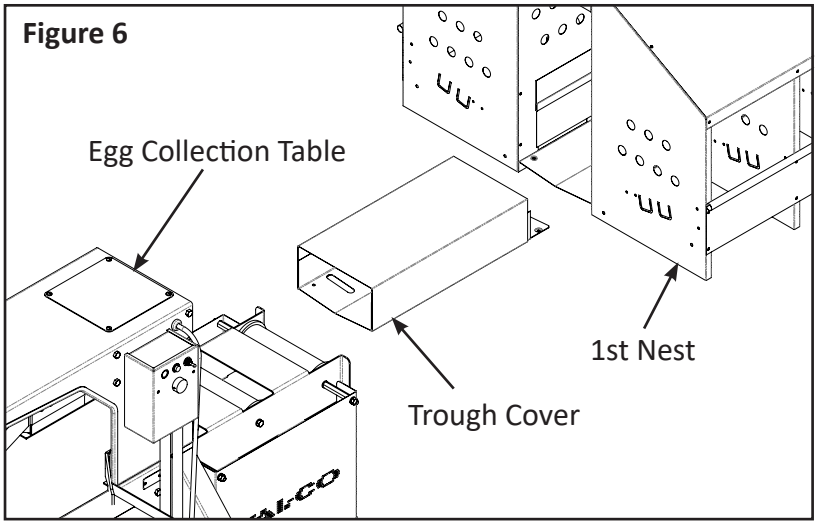
Figure 5



Installing the Connector Troughs and Covers

10. Before the belt is threaded, install connector troughs and covers. Retro fit installations may need additional trough covers to make up for the added distance, which are included in the take-up kit. If this is a retro fit install you will need to detach the trough cover from the table and pull the table away from wall to allow room for the take-up. Attach the trough covers (410943) at the 1st nest (Figure 6). Then attach to existing trough covers using rivets also included in the take-up kit. **THREAD THE BELT THROUGH THE TROUGH COVERS AND THROUGHOUT THE NESTS.**

Figure 6



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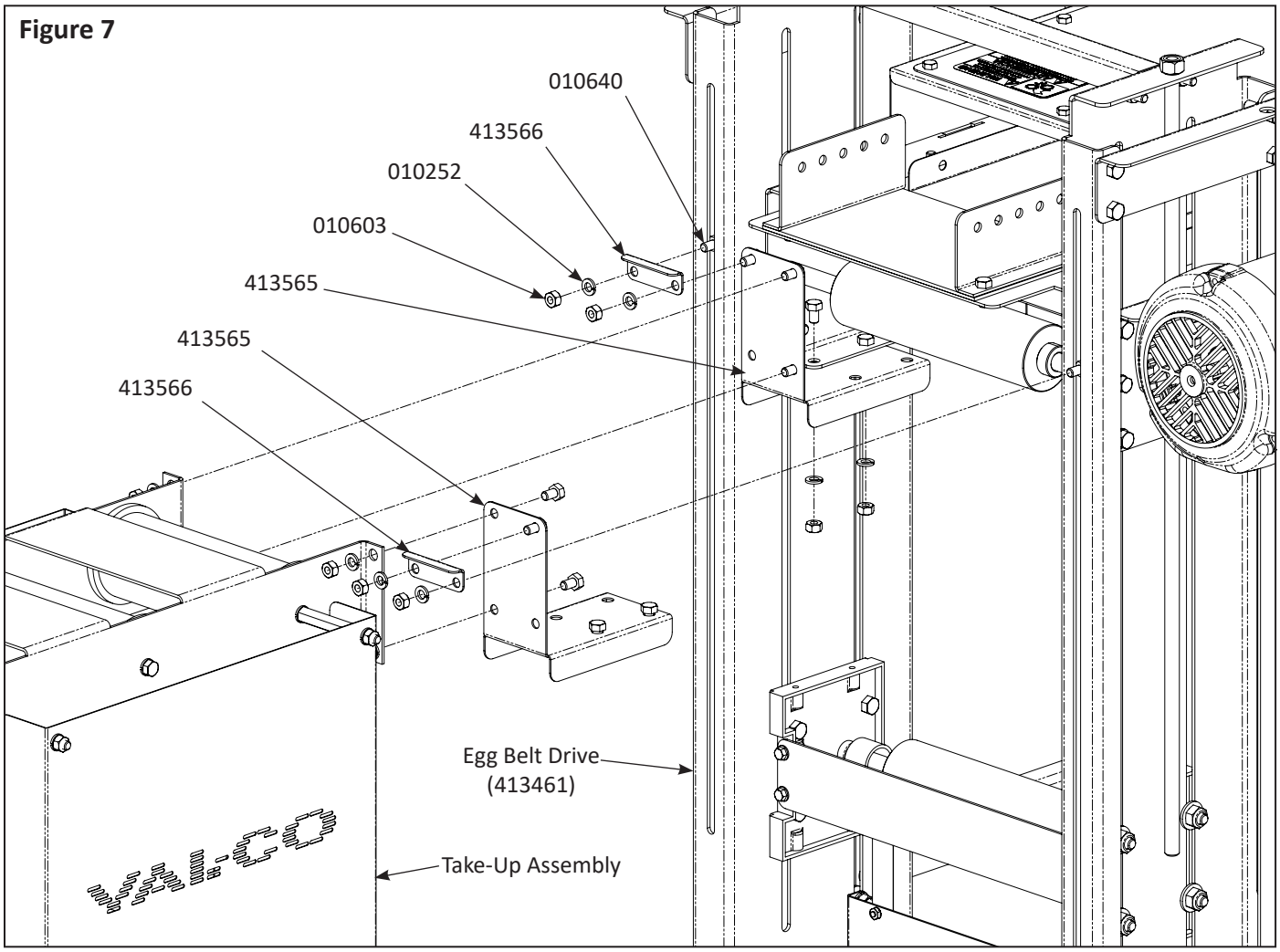
Assembling the Take-Up to the Egg Belt Drive (413461)

NOTE: If installing a egg belt drive (413461), follow the assembly instructions in Step 11 before threading the belt through the trough covers and throughout the nests, otherwise continue to Step 12.

Parts bag 413553 contains all the items needed to attach the take-up to the egg belt drive (413461).

11. Before the belt is threaded through the trough covers and throughout the nests, attach the take-up assembly to the egg belt drive (413461) using a pair of belt drive take-up brackets (413565) and a matching pair of take-up support brackets (413566) using (12) 5/16-18 x 1/2" hex bolts (010640), (12) 5/16" lock washers (010252), and (12) 5/16-18 hex nuts (010603) from the parts bag (413553). Figure 7 shows how the brackets assemble to the take-up and egg belt drive in detail.

Figure 7

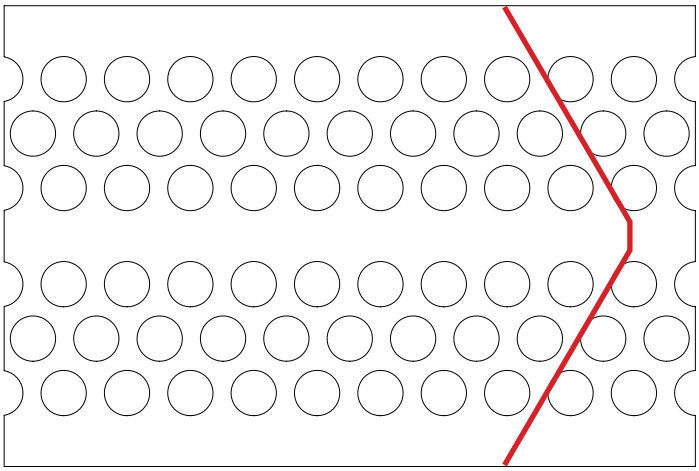


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Installing the Polypropylene Egg Belt

12. Trim end of polypropylene egg belt in an arrow form, with a straight edge at the center of the end (Figure 8).

Figure 8



Leave some edge around holes then discard trimmed edge piece.

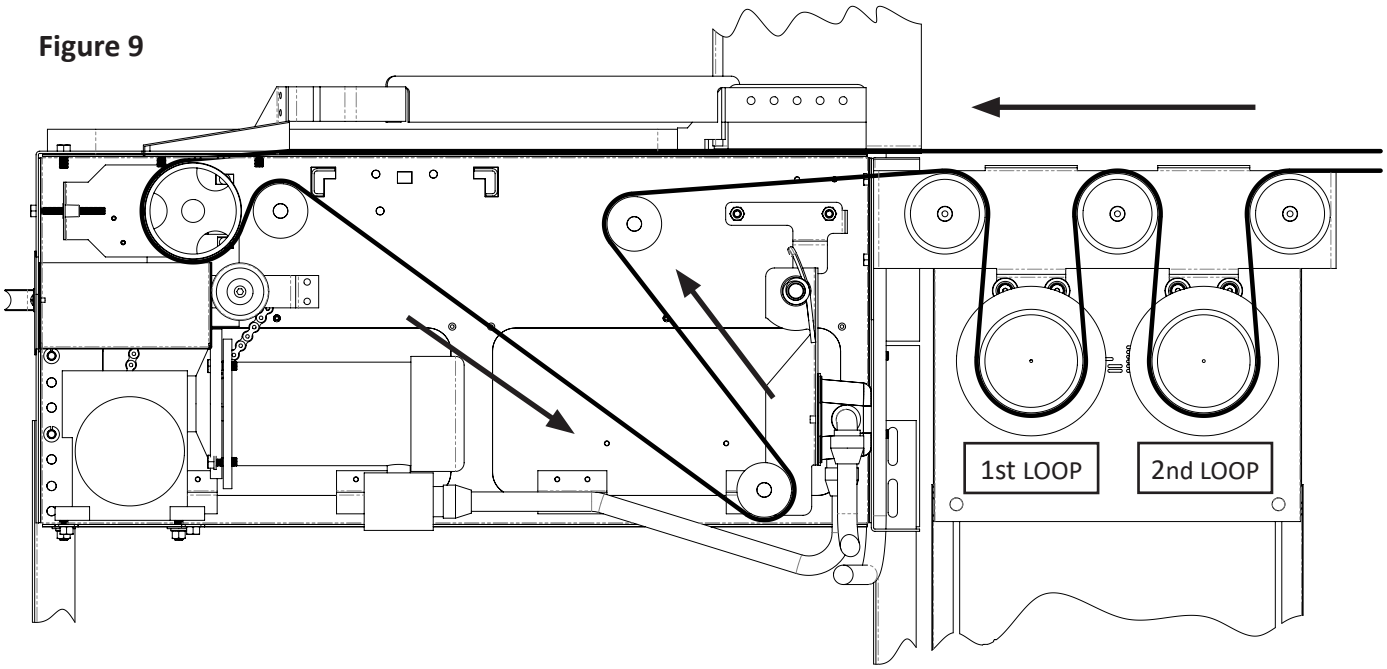
TRIM BELT END AS SHOWN HERE

13. Remove the side panel on the egg collection table housing and the top cover on the take-up.

14. Thread belt with both weights installed (Figure 9) for table end belt threading. Continue threading as detailed in step 15, on the next page.

If belt is installed at warm temperatures such as 80° OR WARMER, the belt may contract enough to become tight if the temperature in the barn becomes much lower. The take-ups MUST be checked periodically to know where the weights are. If they are at the top during colder temperatures, the belt may need lengthened by adding a section of belt, BUT NOT AT THE ORIGINAL JOINT.

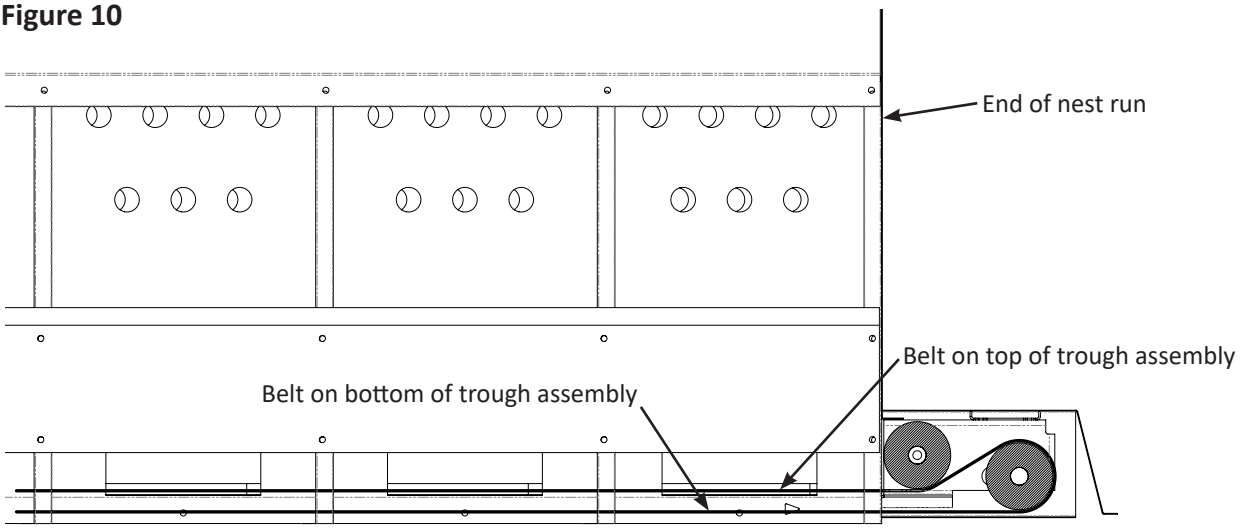
Figure 9



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15. After threading the polypropylene belt through the egg collection table, take-up, and pulling through nest trough assemblies, now thread through the end belt return (Figure 10) and pull the belt end back through to the other belt end at the egg collection table. Clamp belt ends into place and tighten belt so that both weights are at the top bearings. Connecting, trimming, lacing and securing the belt are detailed below and on the next page.

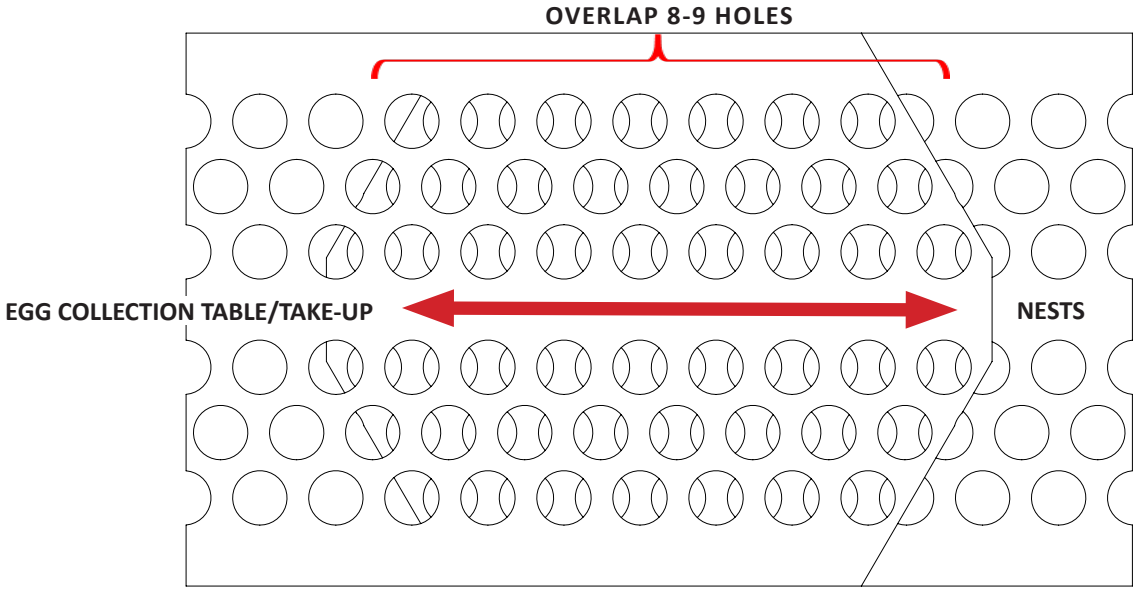
Figure 10



Connect the Belt Ends

16. After you have completely threaded the belt, BE SURE YOU HAVE ALLOWED ENOUGH BELT FOR THE 2 LOOPS AT THE TAKE-UP (Figure 9). Trim this belt end in the same manner as instructed before (Figure 8). Overlap the ends by 8-9 holes (at the side of the belt). **MAKE SURE THE TOP BELT IS POINTING AT THE NEST. When overlapping the holes make sure they are not directly above each other, they should be staggered (Figure 11).**

Figure 11

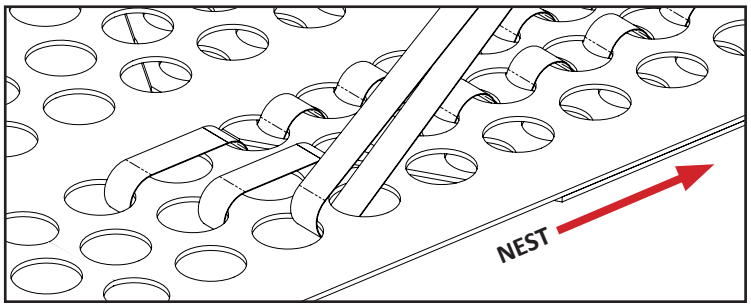


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Belt Lacing

17. Cut six pieces of belt strapping to a length of approximately 32” to weave through the belts, starting at the table end of the belt. Fold each piece of strapping in half, and thread each strap through the belt by placing the fold into a belt hole, two holes before the overlap (Figure 12).

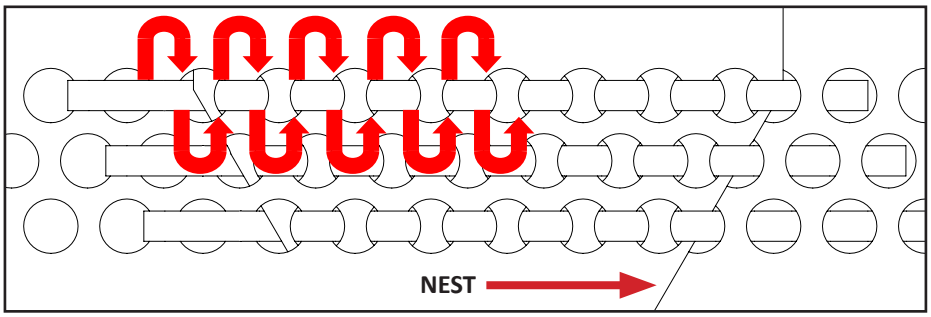
Figure 12



18. Then weave each half of each strap in and out of each belt hole opening, so that the strapping is doubled for double thickness (Figure 13).

NOTE: The lacing must hold the edges of the cut ends securely against the surface of the other belt end, in order to prevent the cut ends from getting caught on any obstructions while in motion.

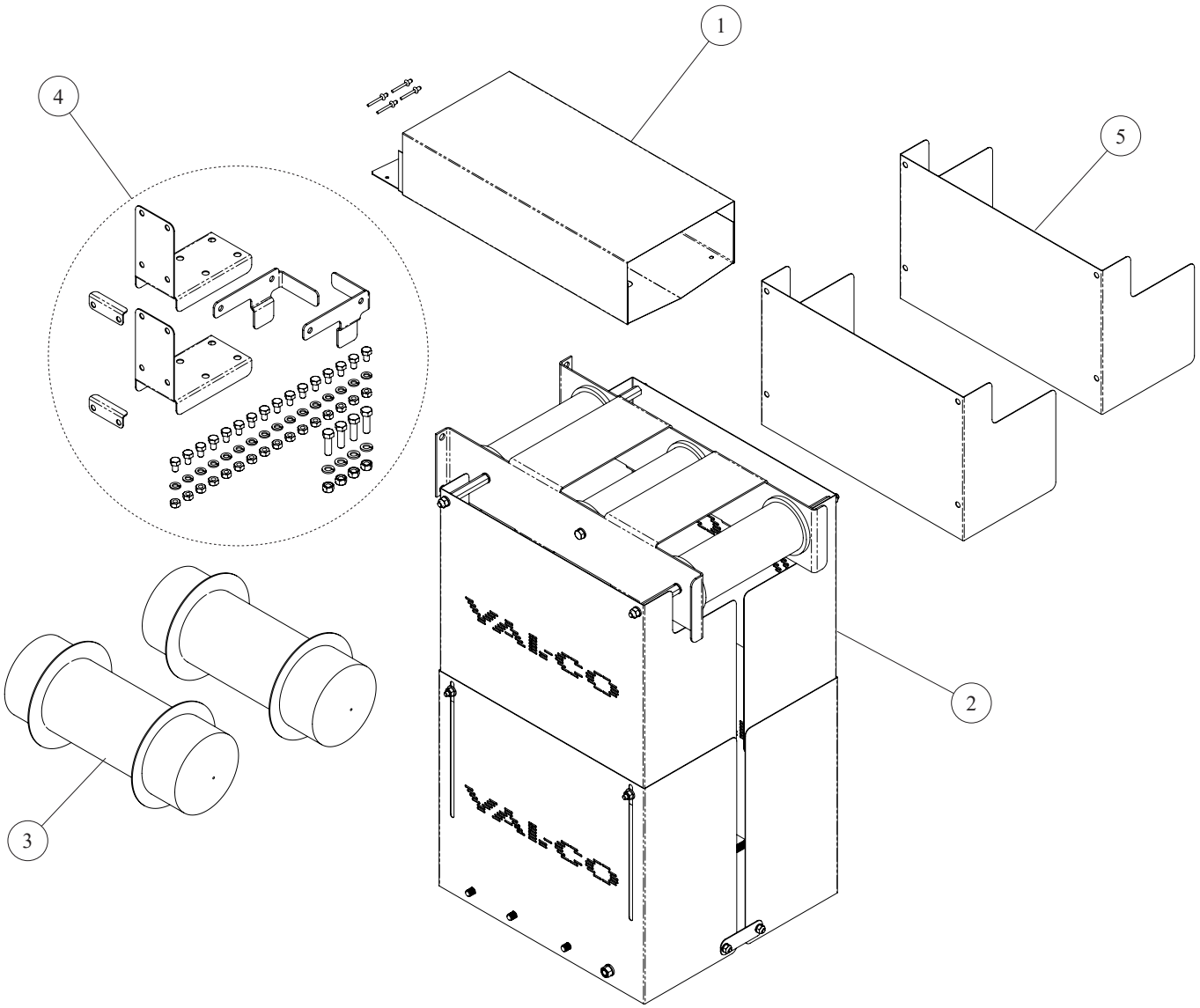
Figure 13



LACE AS SHOWN HERE

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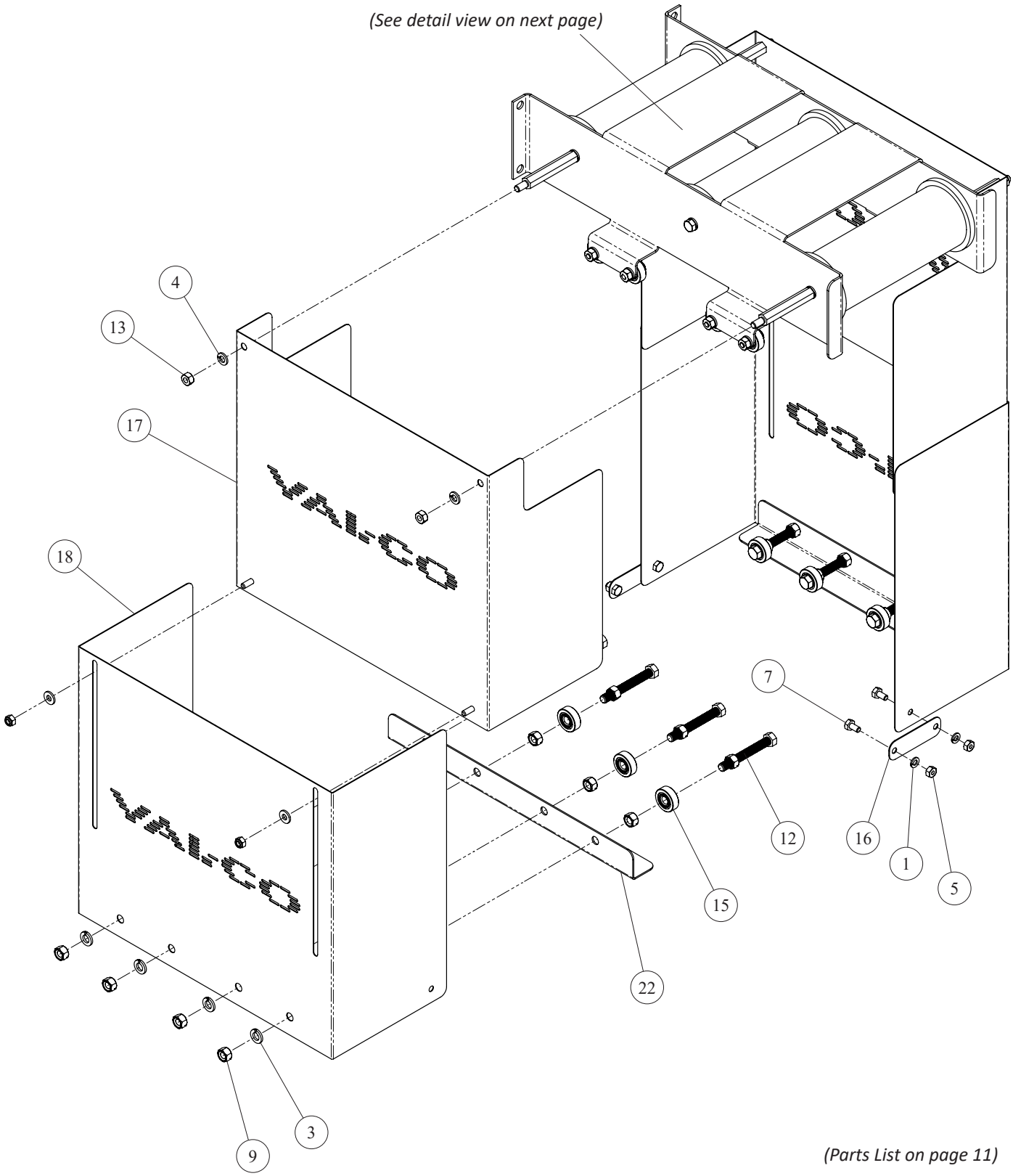
Take-Up Kit, 8” Poly Belt (413539) - Exploded View and Parts List



KEY	PART #	DESCRIPTION	QTY
TAKE-UP KIT, 8” POLY BELT (413539)			
1	410943	18” CONNECTOR TROUGH W/COVER	1
2	413540	8” POLY BELT TAKE UP ASSEMBLY	1
3	413545	WEIGHT, 8” TAKE UP	2
4	413553	HARDWARE BAG, 8” TAKE UP	1
5	413558	EXTENSION GUARD, 8” TAKE UP	2

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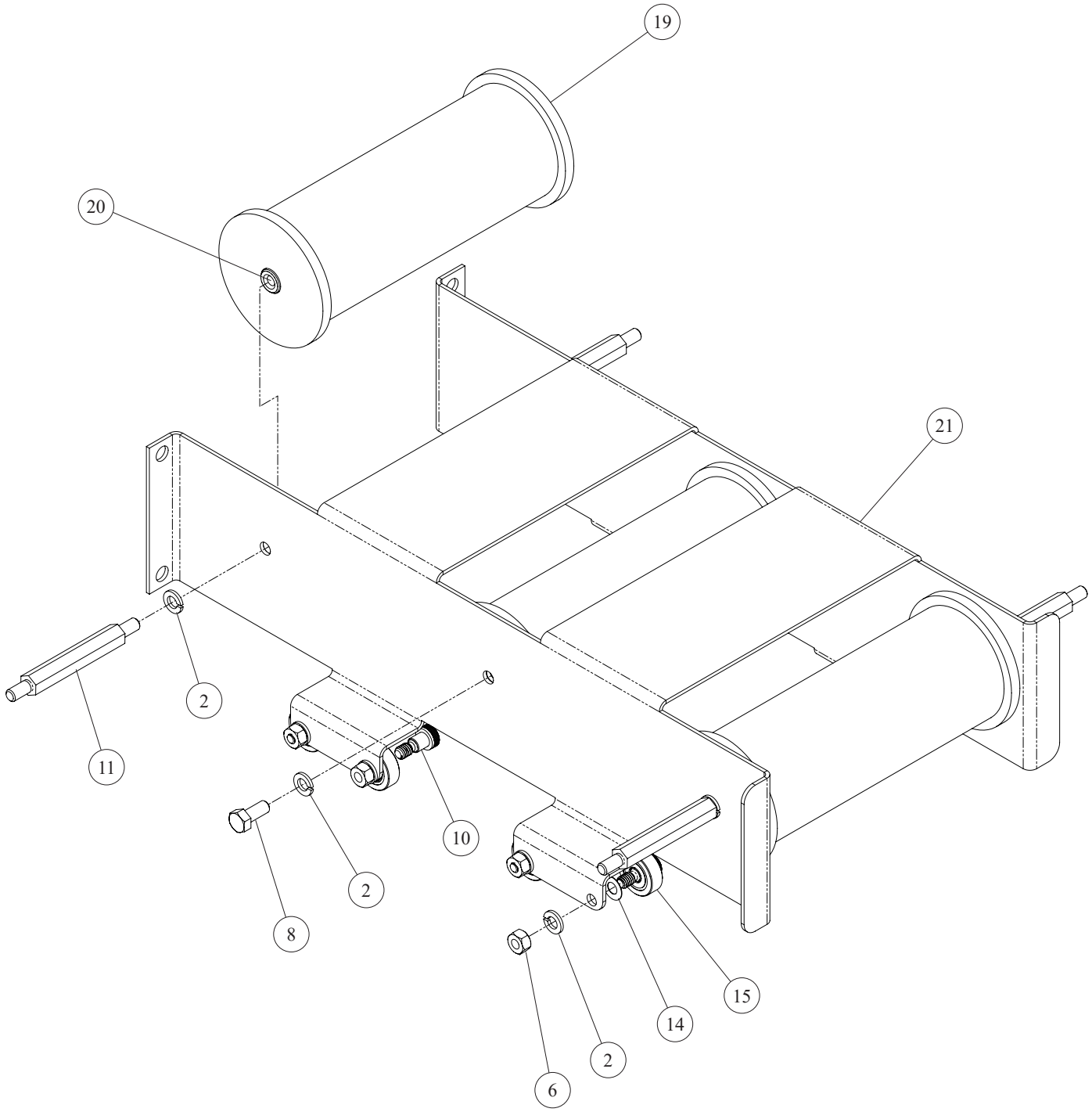
Take-Up Assembly, 8” Poly Belt (413540) - Exploded View



(Parts List on page 11)

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Take-Up Assembly, 8” Poly Belt (413540) - Exploded View (Detail)



(Parts List on page 11)

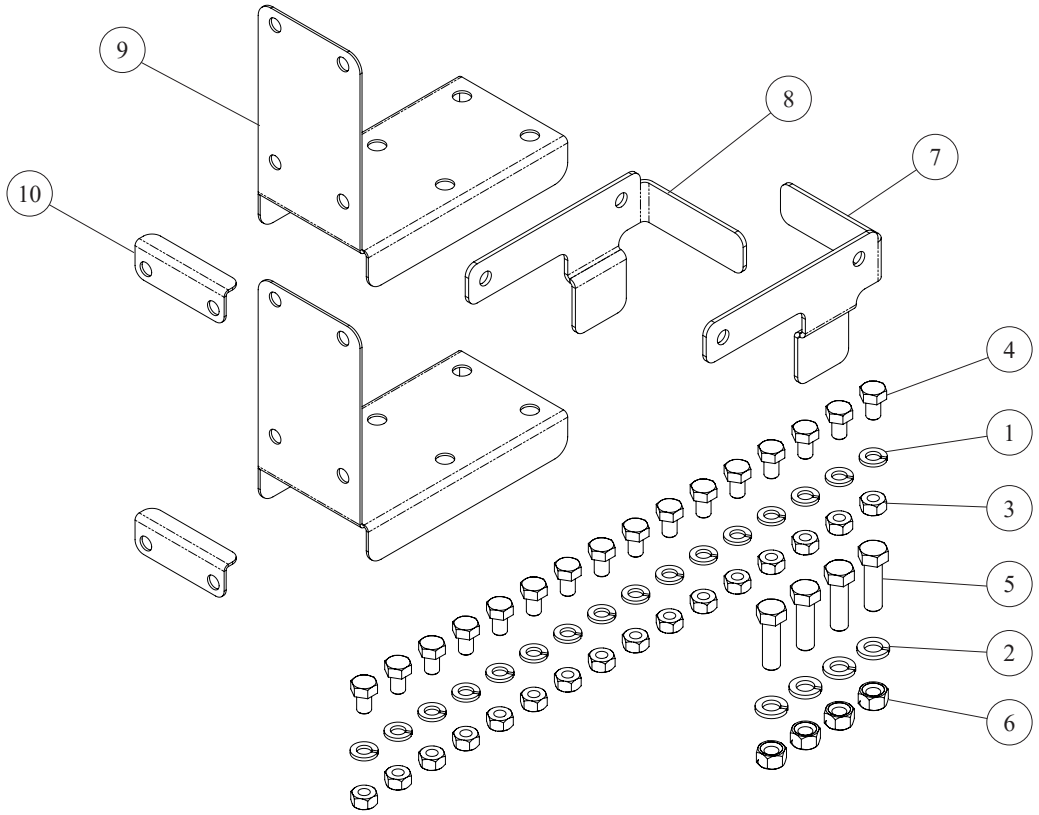
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Take Up Assembly, 8” Poly Belt (413540) - Parts List

KEY	PART #	DESCRIPTION	QTY
TAKE-UP ASSEMBLY, 8” POLY BELT (413540)			
1	010251	1/4” SPLIT LOCK WASHER	4
2	010252	5/16” SPLIT LOCK WASHER	18
3	010253	3/8” SPLIT LOCK WASHER	8
4	010424	1/4” FLAT WASHER	4
5	010602	1/4-20 HEX NUT	4
6	010603	5/16” FINISHED NUT	12
7	010615	1/4-20 X 1/2” HEX BOLT	4
8	010643	5/16-18 X 3/4” HEX BOLT	2
9	011115	3/8-16 HEX NUT	24
10	011393	.375” X .375” SHOULDER BOLT	8
11	011398	5/16-18 X .500” X 3” MALE/MALE STANDOFF	4
12	011399	3/8-16 X 3” FULL THREAD HEX BOLT	8
13	012793	1/4-20 NYLOCK NUT	4
14	412424	.313” X .625” X .015” SHIM	8
15	412548	.375” X 1.125” BEARING	16
16	412558	CONNECTOR PLATE, GUARD	2
17	413541	UPPER GUARD, 8” TAKE-UP	2
18	413542	LOWER GUARD, 8” TAKE-UP	2
19	413543	3.5” X 8.44” PULLEY	3
20	413544	.625” X 8.55” PULLEY SHAFT	3
21	413547	BRACKET, 8” TAKE-UP	1
22	413561	ANGLE, SUPPORT, GUARD	2

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Hardware Bag, 8” Take-Up (413553) - Parts List



KEY	PART #	DESCRIPTION	QTY
HARDWARE BAG, 8” TAKE-UP (413553)			
1	010252	5/16” SPLIT LOCK WASHER	16
2	010253	3/8” SPLIT LOCK WASHER	4
3	010603	5/16” FINISHED NUT	16
4	010640	5/16-18 X 1/2” HEX BOLT	16
5	010666	3/8” X 1-1/4” HEX BOLT	4
6	011115	3/8-16 HEX NUT	4
7	413559	SPRING TENSION BRACKET, RIGHT	1
8	413560	SPRING TENSION BRACKET, LEFT	1
9	413565	BRACKET, BELT DRIVE, TAKE-UP	2
10	413566	BRACKET SUPPORT, TAKE-UP	2

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