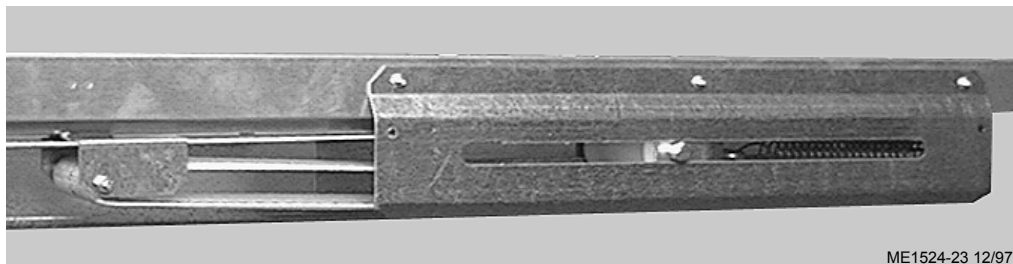


# **Slack Belt Take-Up Assembly**

## **Installation & Operator's Instruction Manual**



## Introduction

The Slack Belt Take-Up is designed to reduce the slack in the egg belt, and if necessary, to turn the collector off should the belt become too loose or too tight.

## Installation

**Note:** If the Egg Tray/Egg Tray Extensions are not installed at this point, please refer to the appropriate Egg Collector Manual before proceeding.

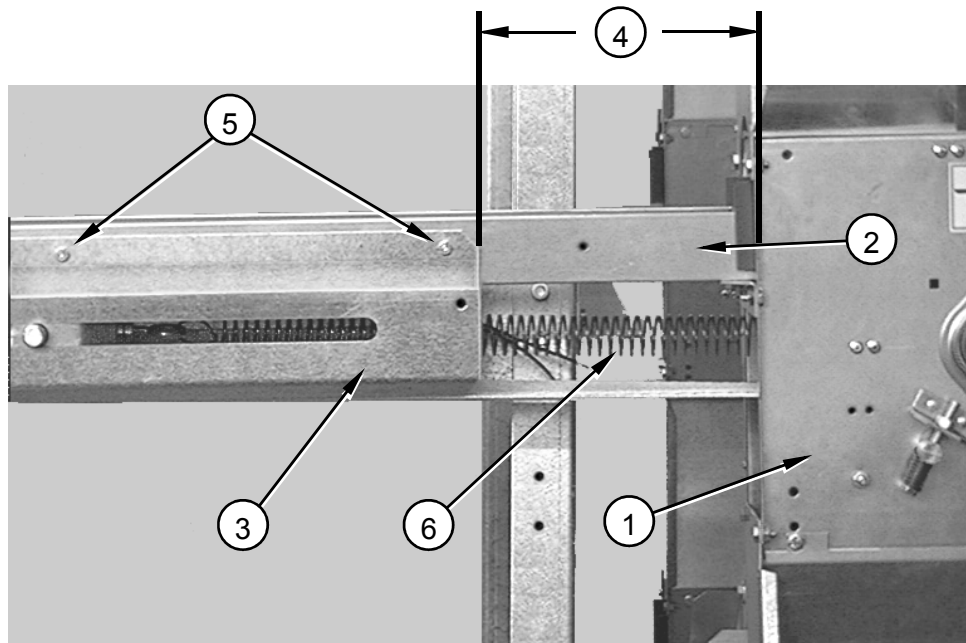
1. Locate the Take-Up Assembly the specified distance from the back edge of the Collector Module. See **Figure 1** below.

The Egg Trays and Egg Tray Extensions are punched to accommodate the Take-Up Assembly. If the holes do not align, it may be necessary to drill a 3/16" hole in the Egg Trays or Egg Tray Extensions for the hardware.

Use the #10-24x3/8" Press Studs (part no. 6156-1) to secure the Take-Up Assembly to the outside face of the Egg Tray or Egg Tray Extension.

Tighten hex nuts to draw the Press Studs flush with the inside of the Egg Tray.

**Important:** The location of the Take-Up Assembly will very depending on the kind of Collector. Make sure to refer to table below (Key 4) before going any further with the installation.



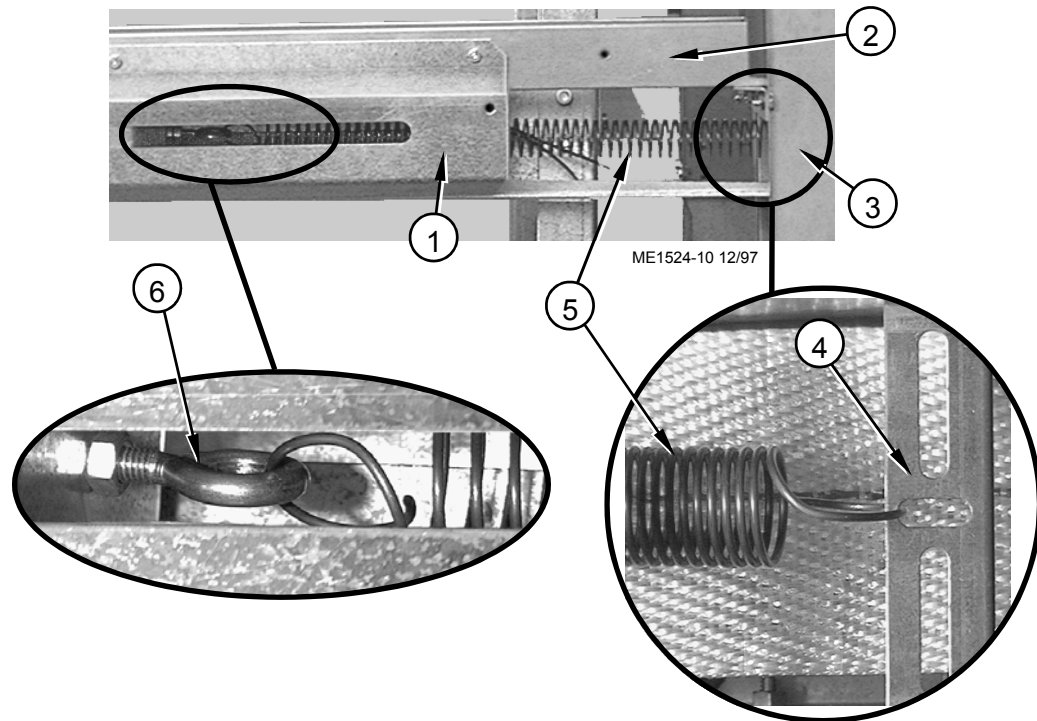
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Key	Description
1	Egg Collector Module
2	Egg Tray/Egg Tray Extension
3	Belt Take-Up Assembly
4	Distance from Egg Collector to Take-Up Assembly Ultra-Lift—4" Ultra-Lift XL—8" Soft Touch—4"
5	Punched Holes—Use Press Studs Here
6	Spring

**Figure 1. Egg Belt Take-Up Installation (side view/aisle side).**

**Important:** The Take-Up Assemblies must be mounted so that the Roller and Sensor Arm are on the inside of the Collector (*opposite the aisle*).

2. Fasten the Spring to the Eye Bolt in the Take-Up Assembly and to the Module Brace as shown in **Figure 2**.

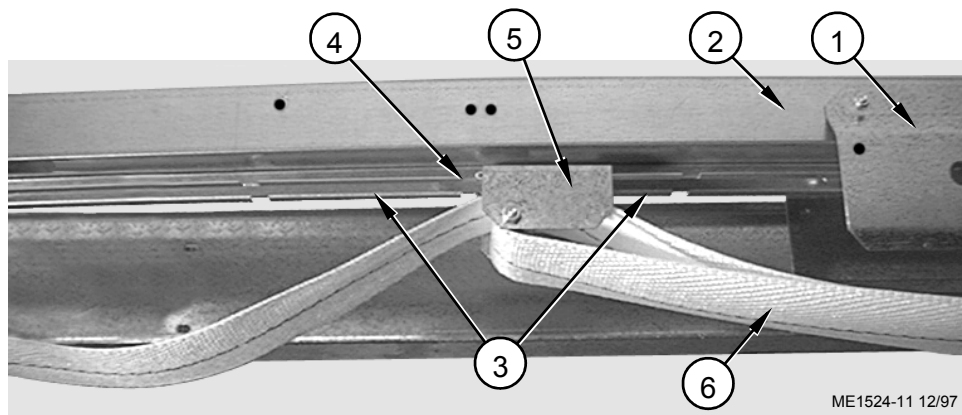


Key	Description
1	Take-Up Assembly
2	Egg Tray/Egg Tray Extension
3	Module
4	Module Brace
5	Spring
6	Eye Bolt

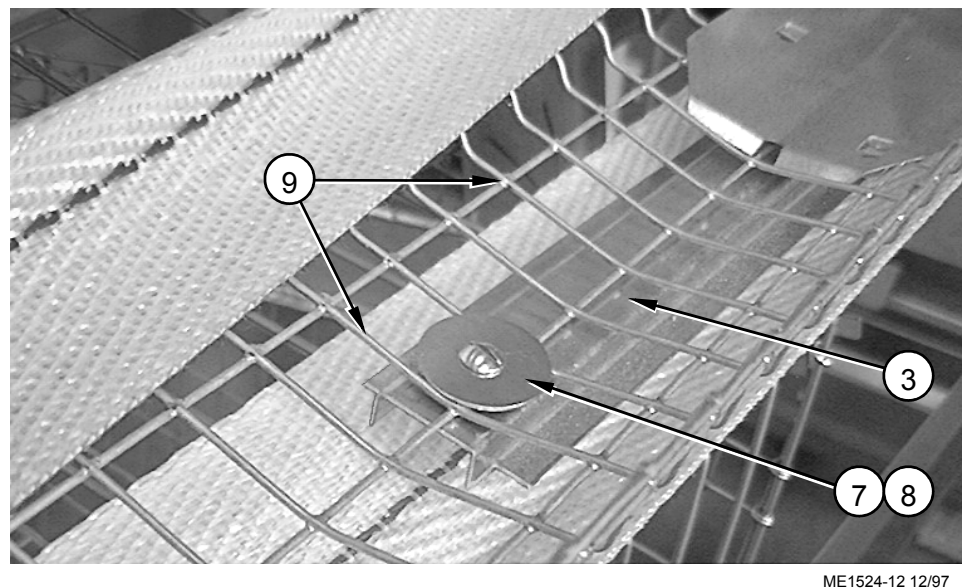
**Figure 2. Spring Installation (side view/aisle side).**

3. Install the Take-Up Belt Track against the Take-Up Assembly. Depending on the distance between the Collector and the cage row, the Track may partially extend into the cage row. **Figure 3 & 4**.
4. Secure the Track to the (metal) Egg Tray, using truss head hardware supplied. **Figure 3**.  
Use Truss Head Screw, Washer and Nut to attach the Track to the (cage) Egg Tray center wire. **Figure 4**.

5. Before sewing the Egg Belt, set the Idler Assembly in the second setting from the Take-Up Assembly, as shown in **Figure 3**.



**Figure 3. Take-Up Belt Track and Idler Assembly Location (side view/aisle side)  
Belt Shown Loose for Clarity.**



**Figure 4. Take-Up Belt Track (top view).**

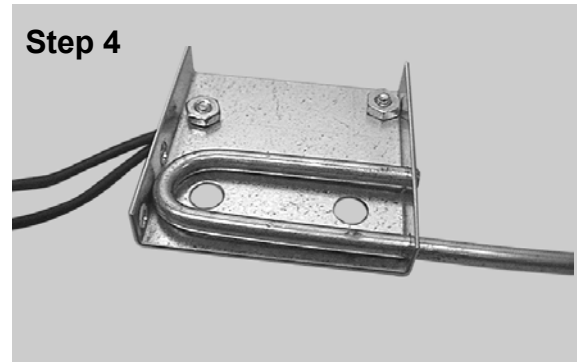
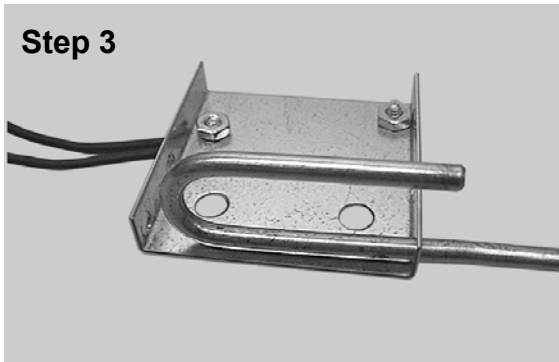
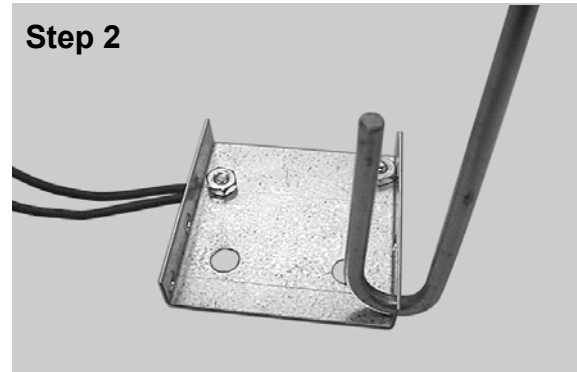
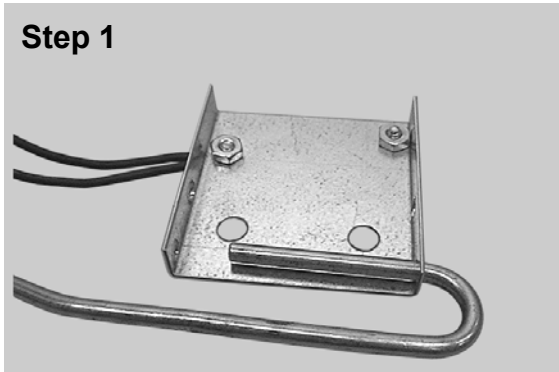
Key	Description
1	Take-Up Assembly
2	Egg Tray/Egg Tray Extension
3	Take-Up Belt Track
4	Idler Arm Setting Notch
5	Idler Assembly
6	Belt
7	Truss Head Screw
8	Washer
9	Wire Cage

## Slack Belt Switch Sensor Arm Installation

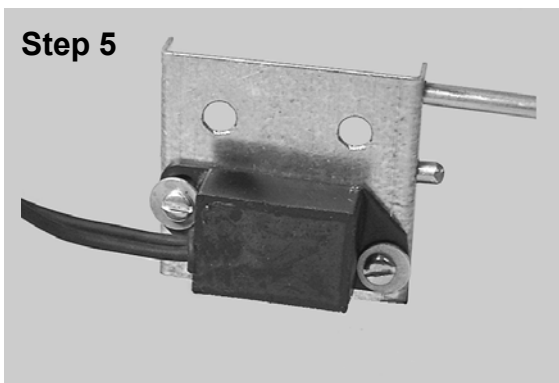
**Note:** The Switch Sensor Arm must be installed on the Switch Brackets in the field. The Tilt Switches are installed on the Switch Brackets in the factory.

1. Follow Steps 1-4 below to install the Switch Sensor Arm onto the Bracket.
2. Step 5 shows a completed Left Hand Arm Installation Bracket before it is mounted to the Slack Belt Assembly

See following page to continue with the installation.

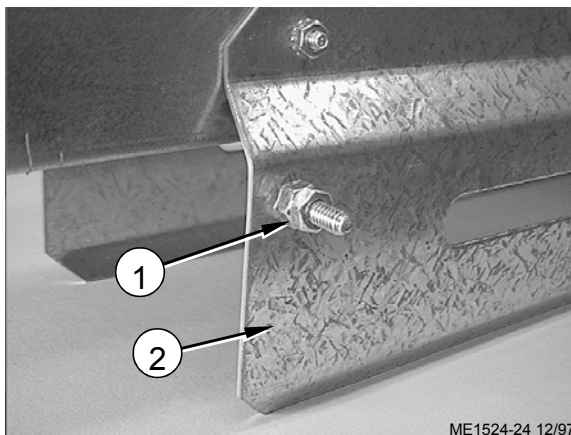


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3. **Before attaching** the completed Switch Sensor Arm Bracket from step 5, you must first install a 1/4x20 bolt onto the Slack Belt Side Panel using two (2) nuts provided. See **Figure 5**.

**Important:** Bolt is installed on the inside of Collector (opposite the aisle).



**Figure 5. Switch Sensor Arm Installation (inside of collector).**

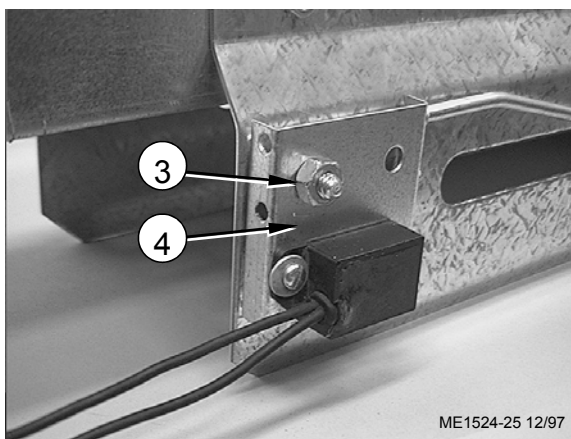
4. Fasten completed Switch Sensor Arm Bracket from Step 5 onto Slack Belt Assembly. Line up 1/4x20 bolt, with hole on Switch Sensor Arm Bracket and tighten with locknut. See **Figure 6** for a completed Assembly.

**Important:** Do not over tighten nut—bracket must be able to swing freely.

The Switch Wire installation is the same for both the left and right hand switches.

**Note:** The LH Switch is marked with a “Blue Dot.” The RH Bracket is marked with an “R” and the LH Bracket is marked with an “L”.

**Important:** After installation, test the switches for proper operation. Adjust if necessary.



**Figure 6. Switch Sensor Arm Installation (inside of collector).**

Item	Description
1	1/4x20 Bolt & Nuts
2	Slack Belt Side Panel
3	Lock Nut
4	Switch Sensor Arm Bracket

# Take-Up Belt Roller Locations

## Acceptable Belt Travel

This diagram represents the range of acceptable belt roller travel—the ideal location while the Egg Collector is in full operation.

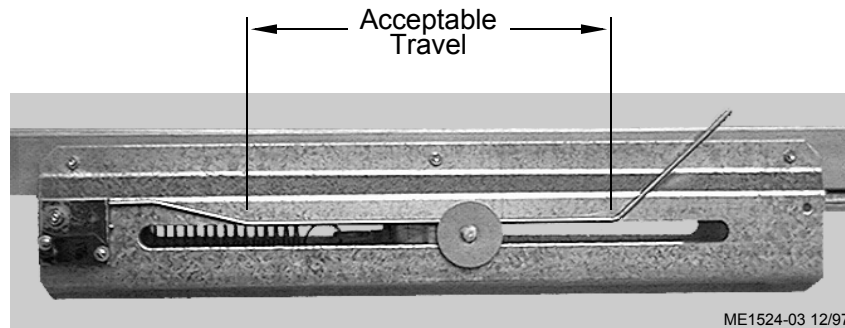


Figure 5 Take-Up Belt Assembly—Acceptable Belt Travel (Left Hand/inside view).

## Slack or Loose Belt Travel

This diagram represents slack or loose belt travel and the location of the Take-Up Roller when this condition occurs.

**Important:** When this condition occurs the Egg Collector will *Shut Down Automatically.*

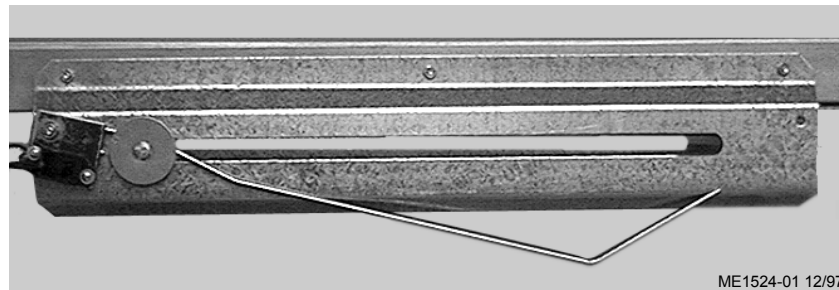


Figure 6 Take-Up Belt Assembly—Loose Belt Travel (Left Hand/inside view).

## Tight Belt Travel

This diagram represents an overly tight belt travel and the location of the Take-Up Roller when this condition occurs.

**Important** When this condition occurs the Egg Collector will *Shut Down Automatically.*

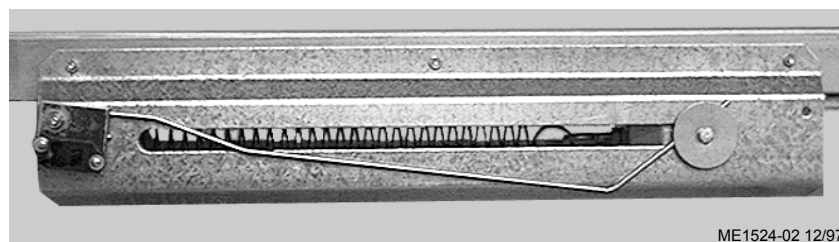
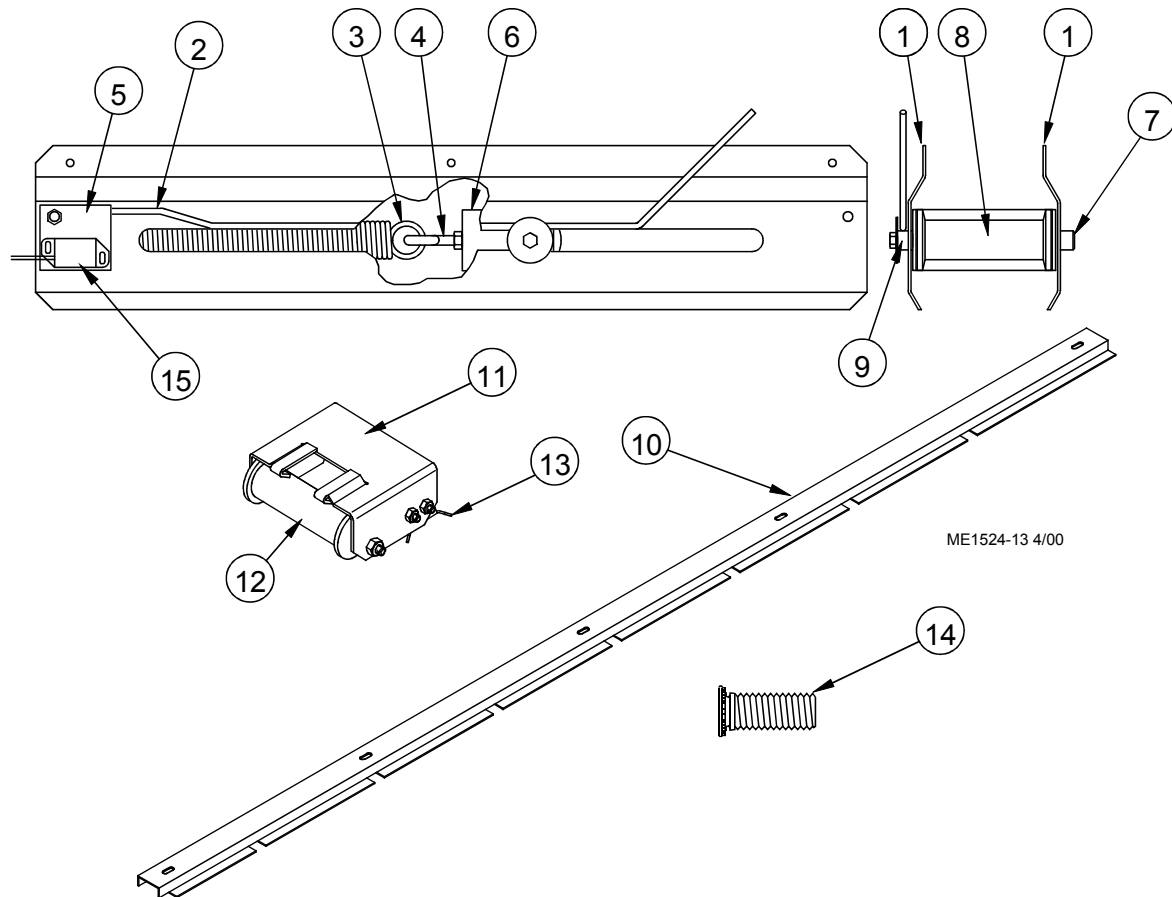


Figure 7 Take-Up Belt Assembly—Tight Belt Travel (Left Hand/inside view).

## Parts Listing



Item	Description	Part No.
1	Slack Belt Side Panel	40715
2	Sensor Arm	40716
3	Extension Spring	30082
4	5/16x18 Eyebolt	1503-2
5	Sensor Bracket	40717
6	Roller Yoke	30030
7	Roller Shaft	30025
8	Roller	29574
9	Spacer	30028
10	Track 8'	43109
11	Take-Up Idler Bracket	36205

Item	Description	Part No.
12	Take-Up Roller	44983
13	Return Belt Support	46056
14	Press Stud	6156-1
15	Slack Belt Switch	
	3 high—6 Sensors	30084-6
	4 high—8 Sensors	30084-8
	5 high—10 Sensors	30084-10

### Complete Assemblies Part No.

Tray Mounting Hardware Kit	40718
Idler Assembly (items 11, 12, 13, 16)	36204
Idler Sliding Assembly (items 4, 6, 7, 8, 9)	40719

Contact your nearby Chore-Time distributor or representative for additional parts and information.

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