

# Martin® Slider Cradle

Go to Martin® Slider Cradle web page





Operator's Manual M3596

### **Important**

MARTIN ENGINEERING HEREBY DISCLAIMS ANY LIABILITY FOR: DAMAGE DUE TO CONTAMINATION OF THE MATERIAL; USER'S FAILURE TO INSPECT, MAINTAIN AND TAKE REASONABLE CARE OF THE EQUIPMENT; INJURIES OR DAMAGE RESULTING FROM USE OR APPLICATION OF THIS PRODUCT CONTRARY TO INSTRUCTIONS AND SPECIFICATIONS CONTAINED HEREIN. MARTIN ENGINEERING'S LIABILITY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF EQUIPMENT SHOWN TO BE DEFECTIVE.

Observe all safety rules given herein along with owner and Government standards and regulations. Know and understand lockout/tagout procedures as defined by American National Standards Institute (ANSI) z244.1-1982, *American National Standard for Personnel Protection - Lockout/Tagout of Energy Sources - Minimum Safety Requirements* and Occupational Safety and Health Administration (OSHA) Federal Register, Part IV, 29 CFR Part 1910, *Control of Hazardous Energy Source (Lockout/Tagout); Final Rule.* 

The following symbols may be used in this manual:



**Danger**: Immediate hazards that will result in severe personal injury or death.



**Warning:** Hazards or unsafe practices that could result in personal injury.



**Caution:** Hazards or unsafe practices that could result in product or property damages.



**Important:** Instructions that must be followed to ensure proper installation/operation of equipment.



**Note:** General statements to assist the reader.

# **Table of Contents**

| Section                                | Page |
|--|------|
| List of Figures                        | . ii |
| List of Tables                         | . ii |
| Introduction                           | 1    |
| General                                | . 1  |
| References                             | . 1  |
| Safety                                 | . 2  |
| Materials required                     | . 2  |
| Before Installing Slider Cradle        | 3    |
| Installing Slider Cradle               | 4    |
| Installing Single-Bar Cradle           | . 4  |
| Installing Double-Bar Cradle           | . 7  |
| After Installing Slider Cradle         | 12   |
| Weekly Maintenance                     | 13   |
| Adjusting for Wear                     | . 13 |
| Turning Bars Over                      | . 13 |
| Troubleshooting/Installation Checklist | 15   |
| Part Numbers                           | . 17 |
| Appendix                               | A-1  |

# **List of Figures**

| Figure | Title  | Page |
|--------|--|------|
| 1      | Locating Slider Cradle Between Idlers (Single-Bar Cradle shown)                  | 5    |
| 2      | Location of Slider Cradle to Idlers  | 6    |
| 3      | Setting Trough Angle   | 6    |
| 4      | Installing Single-Bar Cradle   | 7    |
| 5      | Installing Double-Bar Cradle   | 9    |
| 6      | Bracket Settings and Dimensions  | 11   |
| 7      | Adjusting or Replacing Slider Bars   | 14   |
| 8a     | Martin <sup>®</sup> Slider Cradle Assembly (Single-Bar) P/N 36700-18X            | 18   |
| 8b     | Martin <sup>®</sup> Slider Cradle Assembly (Single-Bar) P/N 36700-18X Parts List | 19   |
| 9a     | Martin® Slider Cradle Assembly (Single-Bar) P/N 36700-XXX                        | 20   |
| 9b     | Martin® Slider Cradle Assembly (Single-Bar) P/N 36700-XXX Parts List             | 21   |
| 10a    | Martin® Slider Cradle Assembly (Double-Bar) P/N 36700-XXX                        | 22   |
| 10b    | Martin® Slider Cradle Assembly (Double-Bar) P/N 36700-XXX Parts List             | 23   |
| 11     | Conveyor Products Warning Label, P/N 23395                                       | 25   |

# **List of Tables**

| Table | Title   | Page |
|-------|---|------|
| I     | Martin® Slider Bar Specifications                           | 1    |
| II    | Center Roll Height Based on CEMA Standards (Reference Only) |      |
| III   | Center Roll Bracket Settings (Refer to Figure 6)            | 10   |
| IV    | Idler Support Bracket, Mounting Tabs Direction              | 11   |
| V     | Single-Bar Part Numbers and Weights                         | 21   |
| VI    | Double-Bar Part Numbers and Weights                         | 24   |

#### Introduction

#### General

The Martin<sup>®</sup> Slider Cradle holds conveyor belts in a stable, sag-free position to allow effective sealing. By minimizing belt vibration and sag, the Martin<sup>®</sup> Slider Cradle reduces escaping material and risk of damage to the belt and conveyor accessories. Martin<sup>®</sup> Slider Bars provide a low-friction, self-lubricating surface for conveyor belts to skim over without heat buildup or undue wear on the belt surface or bars (see specifications in Table I). The Martin<sup>®</sup> Slider Cradle is not intended to absorb impact.

Single-Bar Martin<sup>®</sup> Slider Cradles are suitable for light- to moderate-duty belts from 18- to 42-in. (400- to 1200-mm) wide with belt speeds less than 500 fpm (2.5 m/s).

Double-bar Martin<sup>®</sup> Slider Cradles are recommended for moderate- to severeduty belts from 48- to 96-in. (1200- to 2400-mm) wide with belt speeds greater than 500 fpm (2.5 m/s).

The Martin<sup>®</sup> Slider Cradle conforms to CEMA Standard No. 502-1980 Bulk Material Conveyor Troughing and Return Specifications (CEMA Class D6).

Table I. Martin<sup>®</sup> Slider Bar Specifications

| Bar construction        | UHMW polyethylene  |
|-------------------------|--|
| Bar dimensions          | 2.9-in. (72-mm) high<br>5.0-in. (127-mm) wide<br>48-in. (1220-mm) long |
| Coefficient of friction | 0.5  |
| Specific gravity        | 0.94   |
| Tensile strength        | 6800 lb at 73°F (23°C)   |
| Hardness                | 62 (Shore D)   |
| Service temperature     | -20 to 140°F (-29 to 60°C)   |

#### References

The following documents are referenced in this manual:

- American National Standards Institute (ANSI) z244.1-1982, *American National Standard for Personnel Protection Lockout/Tagout of Energy Sources Minimum Safety Requirements*, American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018.
- Federal Register, Volume 54, Number 169, Part IV, 29 CFR Part 1910, Control of Hazardous Energy Source (Lockout/Tagout); Final Rule, Department of Labor, Occupational Safety and Health Administration (OSHA), 32nd Floor, Room 3244, 230 South Dearborn Street, Chicago, IL 60604.

Safety

All safety rules defined in the above documents, and all owner/employer safety rules must be strictly followed when working on the Martin® Slider

Cradle.

Materials required In addition to standard hand tools, a 5-ft (1.5-m) angle is needed to install this

equipment.

## **Before Installing Slider Cradle**

## **IMPORTANT**

The delivery service is responsible for damage occurring in transit. Martin Engineering CANNOT enter claims for damages. Contact your transportation agent for more information.

- 1. Inspect shipping container for damage. Report damage to delivery service immediately and fill out delivery service's claim form. Keep any damaged goods subject to examination.
- 2. Remove Martin<sup>®</sup> Slider Cradle from shipping container. Equipment in container should include the following:
  - Martin<sup>®</sup> Slider Cradle Single-Bar or Double-Bar Cradle Assembly.
  - Two Conveyor Products Warning Labels, P/N 23395.
- 3. If anything is missing, contact Martin Engineering or representative.



## **A** DANGER

Before installing, servicing, or adjusting conveyor equipment, turn off and lockout / tagout / blockout / testout all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

1. Turn off and lockout / tagout / blockout / testout energy source according to ANSI standards (see "References").



## **AWARNING**

If equipment will be installed in an enclosed area, gas level or dust content must be tested before using a cutting torch or welding. Using a cutting torch or welding in an area with gas or dust may cause an explosion.

- 4. If using a cutting torch or welding, test atmosphere for gas level or dust content. Cover conveyor belt with fire-retardant cover.
- 5. If not already present, install an impact idler 1 in. (25 mm) ahead of and 1 in. (25 mm) behind Single-Bar Cradle's location. Make sure idlers are straight and centered under conveyor belt.
- 6. Remove any unnecessary idlers.

## **IMPORTANT**

Read entire section before beginning work.

# NOTE

Refer to Appendix for mounting dimensions of Martin<sup>®</sup> Slider Cradles used with 5 and 6 inch idlers.

To install the Martin<sup>®</sup> Slider Cradle, follow the procedures corresponding to the following steps:

- 1. Locate slider cradle between idlers.
- 2. Install sub-assemblies as applicable.
- 3. Adjust roller assemblies.

## **IMPORTANT**

Installing Single-Bar Cradle The Martin<sup>®</sup> Slider Cradle requires a minimum of 50 in. (1270 mm) between idler faces.

- 1. Find center point between idlers and mark point on both stringers.
- 2. Measure 12 in. (305 mm) from center point in both directions and mark points on both stringers. These will be reference points for steps 3 and 4.



## NOTE

If center support roll is used, refer to Table 2 and Figure 6 for mounting details. Mount brackets should be installed prior to step 3 but can be installed during a later step.

- 3. Place one sub-assembly across the conveyor stringers, placing feet of the support on each conveyor stringer on the reference mark from step 2.
- 4. Place the second sub-assembly across the conveyor stringers as in step 3. Space approximately 24 in. (610 mm) apart.

4



5. Install both slider bars, one on each side of the conveyor, making sure holes line up, and fasten down with bolts provided.

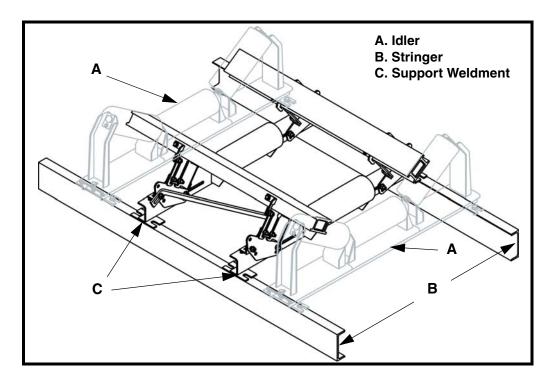


Figure 1. Locating Slider Cradle Between Idlers (Single-Bar Cradle shown)

- 6. Center slider cradle between remaining idlers (refer to Figure 1). Idlers should be installed approximately 50 in. (1270 mm) apart. Install an idler 1 in. (25 mm) before and 1 in. (25mm) after slider cradle. (refer to Figure 2.)
- 7. Attach stabilizer strap.
- 8. Mark and attach sub-assemblies to stringers.
- 9. Fasten slider cradle into place.

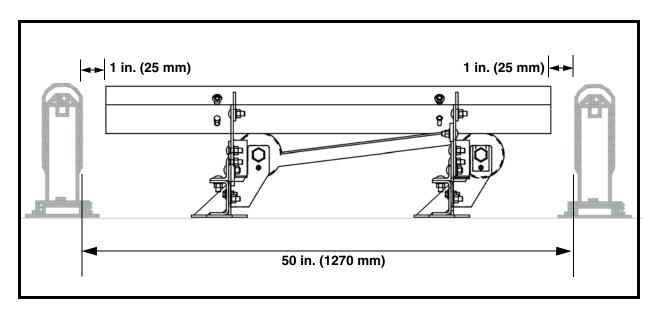


Figure 2. Location of Slider Cradle to Idlers

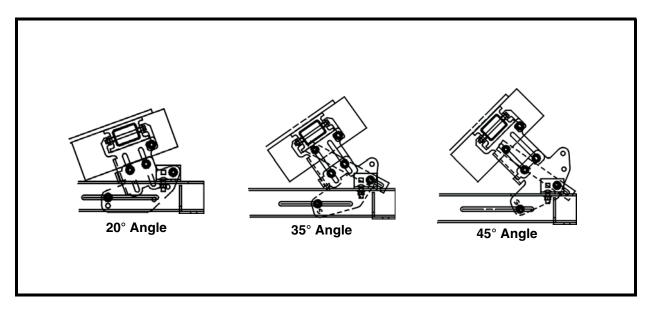


Figure 3. Setting Trough Angle

10. Set trough angle by selecting the proper hole configuration that matches the belt profile (20-, 35-, and 45-degrees), apply bolt, washer and nut, and secure loosely (See Figure 3).

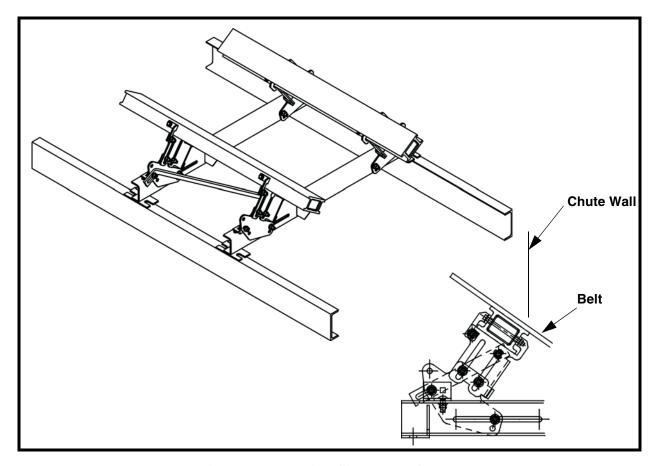


Figure 4. Installing Single-Bar Cradle

- 11. Position the slider bars so that they are supporting the conveyor belt beneath the chute wall and skirting, if any.
- 12. Tighten all bolts.
- 13. Repeat steps 9-12 for opposite side.



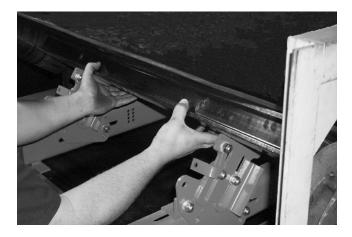
To ensure proper support, slider bars must be equal dimension on all sides.

# Installing Double-Bar Cradle

- 1. Find center point between idlers and mark point on both stringers.
- 2. Measure 12 in. (305 mm) from center point in both directions and mark points on both stringers.

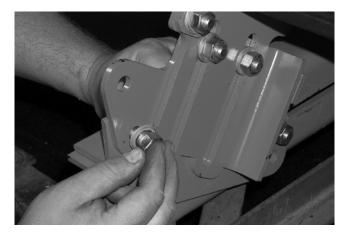


- 3. Place one sub-assembly across the conveyor stringers, placing feet of the support on each conveyor stringer using the reference marks from step 2. Center support rolls are standard with this unit, refer to Table 2 and Figure 6 for mounting details. Brackets should be installed prior to step 3, but can be added during a later step.
- 4. Place the second sub-assembly across the conveyor stringers as in step 3. Center support weldments on these points across stringers. Place feet of support weldments on stringers. Space approximately 24 in. (610 mm) apart.



- 5. Install both slider bars, two on each side of the conveyor, making sure holes line up, and fasten down with bolts provided.
- 6. Center slider cradle between remaining idlers (refer to Figure 1). Idlers should be installed approximately 50 in. (1270 mm) apart. Install an idler 1 in. (25 mm) before and 1 in. (25 mm) after slider cradle. (refer to Figure 2).
- 7. Attach stabilizer strap.
- 8. Mark and attach sub-assemblies to stringers.
- 9. Fasten slider cradle into place.

10. Set trough angle by selecting the proper hole configuration that matches the belt profile (20-, 35-, and 45-degrees), apply bolt, washer and nut, and secure loosely (refer to Figure 3).



- 11. Position the slider bars so that they are supporting the conveyor belt beneath the chute wall and skirting, if any.
- 12. Tighten all bolts.
- 13. Repeat steps 9-12 for opposite side.

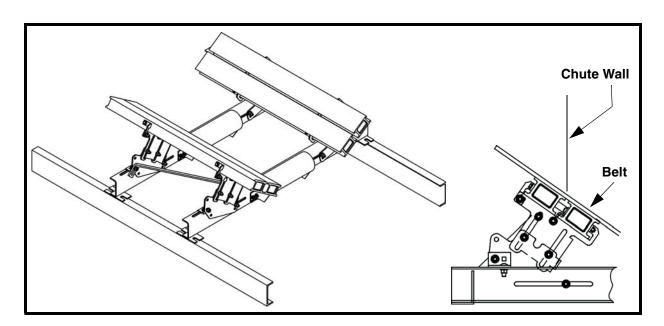


Figure 5. Installing Double-Bar Cradle

Table II. Center Roll Height Based on CEMA Standards (Reference Only)

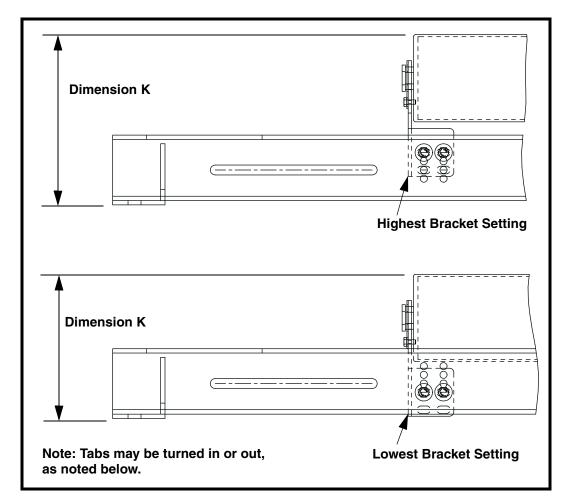
| CEMA<br>Idler Class | Dim. K<br>30-36-in. Belt<br>inches (mm) | Dim. K<br>42-48-in. Belt<br>inches (mm) | Dim. K<br>54-60-in. Belt<br>inches (mm) | Dim. K<br>72-in. Belt<br>inches (mm) |
|---------------------|---|---|---|--------------------------------------|
| C4                  | 8.00 (204)                              | 8.50 (216)                              | 8.75 (222)                              | N/A                                  |
| C5                  | 8.50 (216)                              | 9.00 (229)                              | 9.25 (235)                              | N/A                                  |
| C6                  | 9.00 (229)                              | 9.50 (241)                              | 9.75 (248)                              | N/A                                  |
| D5                  | 8.50 (216)                              | 9.00 (229)                              | 9.25 (235                               | 9.50 (241)                           |
| D6                  | 9.00 (229)                              | 9.50 (241)                              | 9.75 (248)                              | 10.00 (254)                          |
| E6                  | 10.75 (273)<br>(36 in. Belt only)       | 10.75 (273)                             | 10.75 (273)                             | 11.50 (292)                          |

**Table III. Center Roll Bracket Settings (refer to Figure 6)** 

| Belt Width inches (mm) | Dim. K<br>Lowest Setting<br>inches (mm) | Dim. K<br>Highest Setting<br>inches (mm) |
|------------------------|---|--|
| 30 (600-800)           | 8.25 (210)                              | 9.75 (248)                               |
| 36 (800-1000)          | 8.25 (210)                              | 9.75 (248)                               |
| 42 (1000-1200)         | 8.25 (210)                              | 9.75 (248)                               |
| 48 (1200-1400)         | 8.75 (222)                              | 10.25 (260)                              |
| 54 (1400-1600)         | 9.50 (241)                              | 11.00 (279)                              |
| 60 (1600-1800)         | 9.00 (229)                              | 10.50 (267)                              |
| 72 (1800-2000)         | 9.75 (248)                              | 11.25 (286)                              |



#### Brackets are adjustable in .50-in. (13-mm) increments.



**Figure 6. Bracket Settings and Dimensions** 

**Table IV. Idler Support Bracket, Mounting Tabs Direction** 

| Belt Width inches (mm) | Bracket Mounting Tabs<br>Turned |
|------------------------|---------------------------------|
| 30 (600-800)           | IN                              |
| 36 (800-1000)          | IN                              |
| 42 (1000-1200)         | OUT                             |
| 48 (1200-1400)         | OUT                             |
| 54 (1400-1600)         | IN                              |
| 60 (1600-1800)         | OUT                             |
| 72 (1800-2000)         | IN                              |

## **After Installing Slider Cradle**

## **IMPORTANT**

#### Read entire section before beginning work.

1. Thoroughly wipe outside chute walls clean above slider cradle on both sides of chute. Place a Conveyor Products Warning Label (P/N 23395) on each chute wall visible to belt operator.



## **AWARNING**

Failure to remove tools from installation area and conveyor belt before turning on energy source can cause serious injury to personnel and damage to belt.

2. Remove all tools and fire-retardant cover from installation area and conveyor belt.



## **A** DANGER

Do not touch or go near conveyor belt or conveyor accessories when conveyor belt is running. Body or clothing can get caught and pull body into conveyor belt, causing severe injury or death.

3. Turn on conveyor belt for one hour.



## **▲** DANGER

Before installing, servicing, or adjusting conveyor equipment, turn off and lockout / tagout / blockout / testout all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

- 4. After one hour of operation, turn off and lockout / tagout / blockout / testout energy source according to ANSI standards (see "References").
- 5. Make sure all fasteners are tight. Tighten if necessary.
- 6. Inspect slider cradle for wear. (A small amount of break-in wear may be found. This will stop once bars wear to conveyor belt contour.)
- 7. If excessive wear, uneven wear, or some other problem exists, see "Troubleshooting/Installation Checklist."
- 8. If necessary, adjust height of bar supports.

## **IMPORTANT**

Read entire section before beginning work.



## **A** DANGER

Before installing, servicing, or adjusting conveyor equipment, turn off and lockout / tagout / blockout / testout all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

# Adjusting for Wear

- 1. Turn off and lockout / tagout / blockout / testout energy source according to ANSI standards (see "References").
- 2. Make sure all fasteners are tight. Tighten if necessary.
- 3. Check slider bars for wear. If worn, do the following: If bar is not contacting belt but has more than 1/16 in. (2 mm) of material left at support bar, adjust bar height as follows:
  - a. Loosen stop nuts on carriage bolts (see Figure 7, item E).
  - b. Move bar and attaching components towards centerline of belt until bar-to-belt contact occurs.
  - c. Tighten stop nuts on carriage bolts.

#### Turning Bars Over

- 1. Remove bolt D on both sub-assemblies.
- 2. Loosen bolt G and flip bar lock F down.
- 3. Remove bar and turn upside down.
- 4. Reinstall. Tighten all bolts.

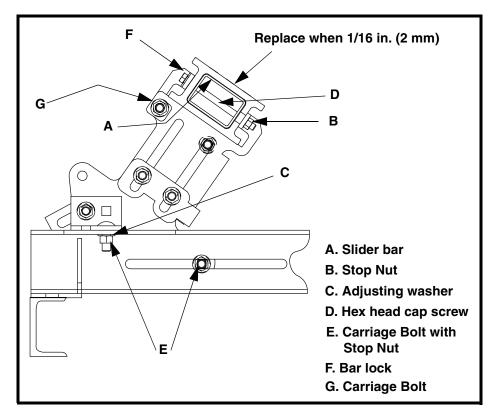


Figure 7. Adjusting or Replacing Slider Bars





Failure to remove tools from installation area and conveyor belt before turning on energy source can cause serious injury to personnel and damage to belt.

5. Remove all tools from maintenance area.





Do not touch or go near conveyor belt or conveyor accessories when conveyor belt is running. Body or clothing can get caught and pull body into conveyor belt, causing severe injury or death.

6. Start conveyor belt.

## **Troubleshooting/Installation Checklist**

#### **Troubleshooting** If you are experiencing problems with support cradle, see below.

| Symptom                | Corrective Action   |  |
|------------------------|---|--|
| High slider bar wear   | Bar is above idler height or is not parallel to belt travel. Adjust bar height or position.                       |  |
| Uneven slider bar wear | Bar is not parallel to belt travel or is under impact. Inspect loading area and divert impact or relocate cradle. |  |

#### Installation Checklist

If after taking the corrective actions suggested under "Troubleshooting" you are still experiencing problems, check for the following:

#### **Installation Checklist**

- Two support weldment or track weldment centers are 13 in. (330 mm) from face to idlers and 24 in. (610 mm) apart.
- Two support rollers are used for belts 48- through 96-in. (1200- through 2400-mm) wide and are centered under belt.
- Slider bars contact belt and follow contour of belt.
- Ends of slider bars are 1 in. (25 mm) from face of idlers.

## Notes

## **Part Numbers**

This section provides product names and corresponding part numbers for Martin<sup>®</sup> Slider Cradles and related equipment. Please reference part numbers when ordering.

Martin<sup>®</sup> Slider Cradles **Martin**<sup>®</sup> **Multi-Trough Design, Single-Bar Slider Cradle**: P/N 36700-18X. See Figures 8a and 8b.

 ${\bf Martin}^{\it @} \ {\bf Multi-Trough \ Design, Single-Bar \ Slider \ Cradle:}$ 

P/N 36700-XXX. See Figures 9a and 9b.

**Martin**<sup>®</sup> **Multi-Trough Design, Double-Bar Slider Cradle**: P/N 36700-XXX. See Figures 10a and 10b.

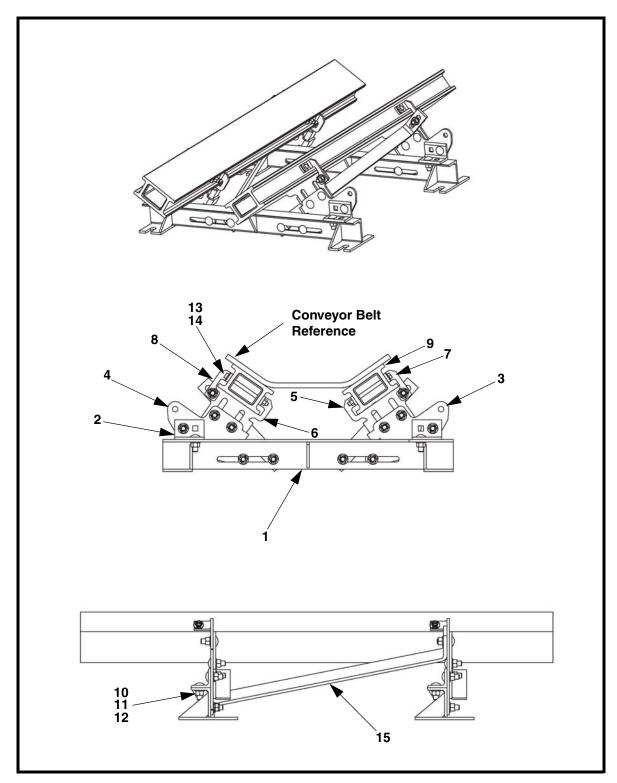


Figure 8a. Martin<sup>®</sup> Slider Cradle Assembly (Single-Bar), P/N 36700-18X

| Item | Description                       | Part No.   | Qty |
|------|-----------------------------------|------------|-----|
| 1    | Cross Support Weldment            | 36716-18X* | 2   |
| 2    | Angle Support                     | 36673      | 4   |
| 3    | Wing Plate                        | 36669-18R  | 2   |
| 4    | Wing Plate                        | 36669-18L  | 2   |
| 5    | Bar Support Weldment              | 36670-18R  | 2   |
| 6    | Bar Support Weldment              | 36670-18L  | 2   |
| 7    | Bar Lock                          | 36672-R    | 4   |
| 8    | Bar Lock                          | 36672-L    | 4   |
| 9    | Slider and Support Bar Assy       | 31275      | 2   |
| 10   | Bolt Carriage 1/2-13NC ZPx1.50 ZP | 33225      | 26  |
| 11   | 1/2 Compression Washer            | 11750      | 26  |
| 12   | 1/2-13NC ZP Nut Hex               | 11771      | 26  |
| 13   | 3/8 Wide ZP Flat Washer           | 18007      | 4   |
| 14   | 3/8-16 NCx5 ZP Screw              | 30840      | 4   |
| 15   | Stabilizer Strap                  | 36759      | 2   |
| NS   | Mounting Hardware Kit             | 34498      | 1   |
| NS   | Label Kit                         | 34769      | 1   |
| NS   | Operator's Manual                 | M3596      | 1   |

Figure 8b. Martin<sup>®</sup> Slider Cradle Assembly (Single-Bar), P/N 36700-18X\* Parts List

NS = Not Shown

<sup>\*</sup>X Indicates Standard (S) or Wide (W) base.

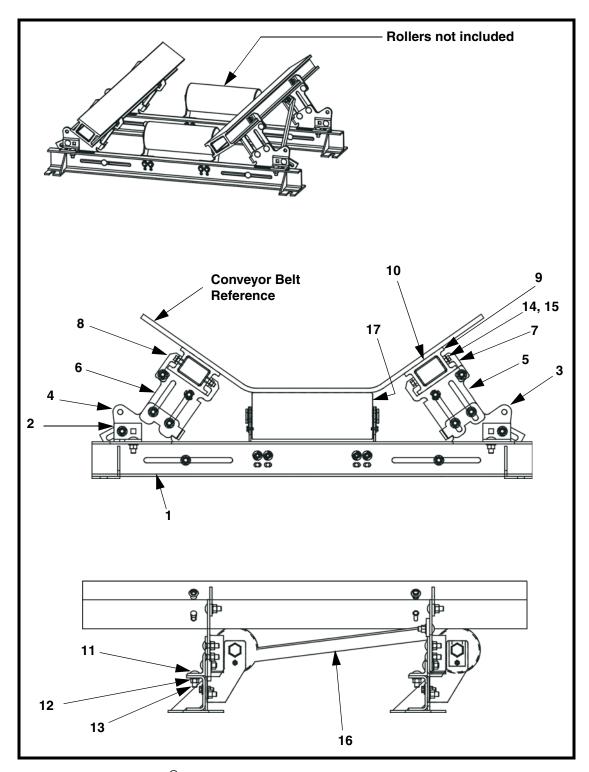


Figure 9a.  $Martin^{\textcircled{\$}}$  Slider Cradle Assembly (Single-Bar), P/N 36700-XXX

| Item | Description                               | Part No. | Qty |
|------|---|----------|-----|
| 1    | Cross Support Weldment                    | Table V  | 2   |
| 2    | Angle Support                             | 36673    | 4   |
| 3    | Wing Plate                                | 36669-R  | 2   |
| 4    | Wing Plate                                | 36669-L  | 2   |
| 5    | Bar Support Weldment                      | 36670-R  | 2   |
| 6    | Bar Support Weldment                      | 36670-L  | 2   |
| 7    | Bar Lock                                  | 36672-R  | 4   |
| 8    | Bar Lock                                  | 36672-L  | 4   |
| 9    | Slider Bar                                | 33962    | 2   |
| 10   | Inner Bar Support                         | 31213    | 2   |
| 11   | Bolt Carriage 1/2-13NC ZPx1.50 ZP         | 33225    | 26  |
| 12   | 1/2 Compression Washer                    | 11750    | 26  |
| 13   | 1/2-13NC ZP Nut Hex                       | 11771    | 26  |
| 14   | 3/8 Wide ZP Flat Washer                   | 18007    | 4   |
| 15   | 3/8-16 NCx5 ZP Screw                      | 30840    | 4   |
| 16   | Stabilizer Strap                          | 36759    | 2   |
| 17   | Support Roll Kit (Optional, not included) | 36725    | 2   |
| NS   | Mounting Hardware Kit                     | 34498    | 1   |
| NS   | Label Kit                                 | 34769    | 1   |
| NS   | Operator's Manual                         | M3596    | 1   |

Figure 9b. Martin® Slider Cradle Assembly (Single-Bar), P/N 36700-XXX Parts List

NS = Not Shown

**Table V. Single-Bar Part Numbers and Weights** 

| Part No.  | Item 1 P/N | Assembly<br>Weight |
|-----------|------------|--------------------|
| 36700-24S | 36716-24S  | 120                |
| 36700-24W | 36716-24W  | 126                |
| 36700-30S | 36716-30S  | 135                |
| 36700-30W | 36716-30W  | 141                |
| 36700-36S | 36716-36S  | 141                |
| 36700-36W | 36716-36W  | 147                |
| 36700-42S | 36716-42S  | 156                |
| 36700-42W | 36716-42W  | 163                |

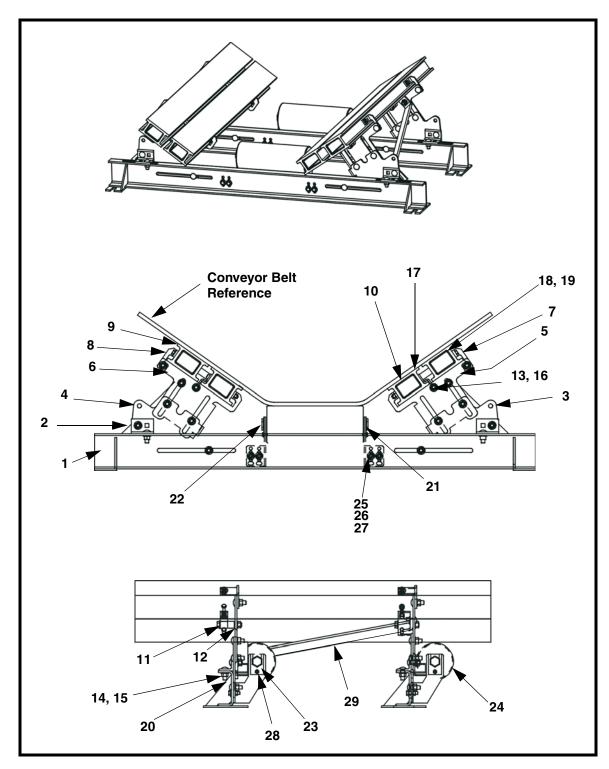


Figure 10a. Martin® Slider Cradle Assembly (Double-Bar), P/N 36700-XXX

| Item | Description                      | Part No. | Qty |
|------|----------------------------------|----------|-----|
| 1    | Cross Support Weldment           | Table VI | 2   |
| 2    | Angle Support                    | 36673    | 4   |
| 3    | Double-Bar Wing Plate            | 36697-R  | 2   |
| 4    | Double-Bar Wing Plate            | 36697-L  | 2   |
| 5    | Double-Bar Support Weldment      | 36695-R  | 2   |
| 6    | Double-Bar Support Weldment      | 36695-L  | 2   |
| 7    | Bar Lock                         | 36672-R  | 2   |
| 8    | Bar Lock                         | 36672-L  | 2   |
| 9    | Slider Bar                       | 33962    | 4   |
| 10   | Inner Bar Support                | 31213    | 4   |
| 11   | Inner Bail Weldment              | 36703    | 4   |
| 12   | Inner Bail Tube Spacer .88 LG    | 36701-S  | 4   |
| 13   | 1/2 Narrow ZP Flat Washer        | 31010    | 4   |
| 14   | 1/2 Compression Washer           | 11750    | 30  |
| 15   | 1/2-13 NC ZP Hex Nut             | 11771    | 30  |
| 16   | 1/2-13 NCx3 ZP Screw             | 19136    | 4   |
| 17   | Inner Bolt Weldment              | 36699    | 4   |
| 18   | 3/8 Wide ZP Flat Washer          | 18007    | 12  |
| 19   | 3/8-16 NCx4-1/4 ZP Screw         | 34082    | 4   |
| 20   | 1/2-13 NCx1-1/2 ZP Carriage Bolt | 33225    | 26  |
| 21   | Idler Bracket                    | 36694-R  | 2   |
| 22   | Idler Bracket                    | 36694-L  | 2   |
| 23   | Tie Tab                          | 29852-01 | 2   |
| 24   | Idler Roll Assembly              | Table VI | 2   |
| 25   | 3/8 Compression Washer           | 11747    | 8   |
| 26   | 3/8-16 NCx1-1/4 ZP               | 12215    | 8   |
| 27   | 3/8-16 NC ZP Hex Nut             | 11770    | 8   |
| 28   | 1/4-20 NCx1/2 ZP Screw HHC       | 11945    | 4   |
| 29   | Stabilizer Strap                 | 36759    | 2   |
| NS   | Mounting Hardware Kit            | 34498    | 1   |
| NS   | Label Kit                        | 34769    | 1   |
| NS   | Operator's Manual                | M3596    | 1   |

Figure 10b. Martin® Slider Cradle Assembly (Double-Bar), P/N 36700-XXX Parts List NS = Not Shown

Table VI. Double-Bar Part Numbers and Weights

| Part No.  | Item 1 P/N | Item 24 P/N | Assembly<br>Weight |
|-----------|------------|-------------|--------------------|
| 36700-48S | 36716-48S  | 32249-07    | 254                |
| 36700-48W | 36716-48W  | 32249-07    | 261                |
| 36700-54S | 36716-54S  | 32249-02    | 276                |
| 36700-54W | 36716-54W  | 32249-02    | 283                |
| 36700-60S | 36716-60S  | 32249-02    | 298                |
| 36700-60W | 36716-60W  | 32249-02    | 306                |
| 36700-72S | 36716-72S  | 32249-03    | 329                |
| 36700-72W | 36716-72W  | 32249-03    | 340                |



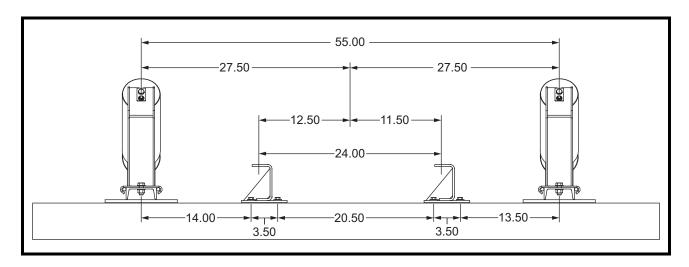
Lock out and/or tag out all energy sources to conveyor system and loading system before performing any work on conveyor or conveyor accessories. Failure to do so could result in severe injury or death.

Cierre y/o rotule todas las fuentes de energía al sistema transportador y al sistema de carga antes de realizar cualquier trabajo en el transportador o sus accesorios. El no hacerlo puede resultar en heridas serias o muerte.

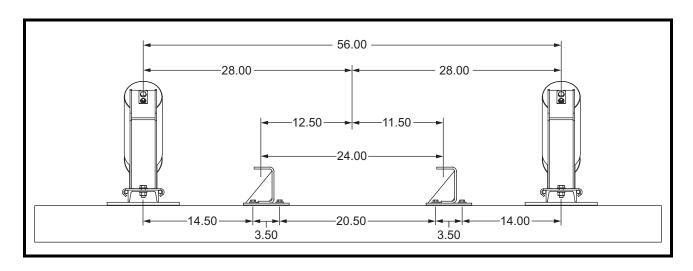
I ahol P/N 23304

Figure 11. Conveyor Products Warning Label, P/N 23395

## **Appendix**



Martin® Slider Cradle with 5 inch Idlers Mounting Dimensions\*

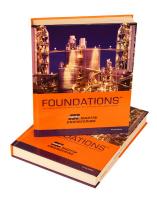


Martin® Slider Cradle with 6 inch Idlers Mounting Dimensions\*

\*Note: Dimensions do not apply to Martin $^{\circledR}$  Slider Cradles P/N 36700-18X



# Problem Solved™ GUARANTEED!



For nearly 20 years, Martin Engineering's Foundations™ Books have taught industry personnel to operate and maintain clean and safe belt conveyors. The Foundations™ Book, fourth edition, focuses on improving belt conveyors by controlling fugitive material. "The Practical Resource for Total Dust and Material Control," is a 576-page hard cover volume that provides information of value to industries where the efficient handling of bulk materials is a key to productivity and profitability.

Expanding upon the book, our Foundations™ Training Program addresses the design and development of more productive belt conveyors, and is offered in three customizable seminars. Attendees gain a better understanding of conveyor safety and performance, helping to justify upgrade investments and increase profitability.



#### Martin Engineering USA

One Martin Place Neponset, IL 61345-9766 USA 800 544 2947 or 309 852 2384 Fax 800 814 1553 www.martin-eng.com

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001:2008 =