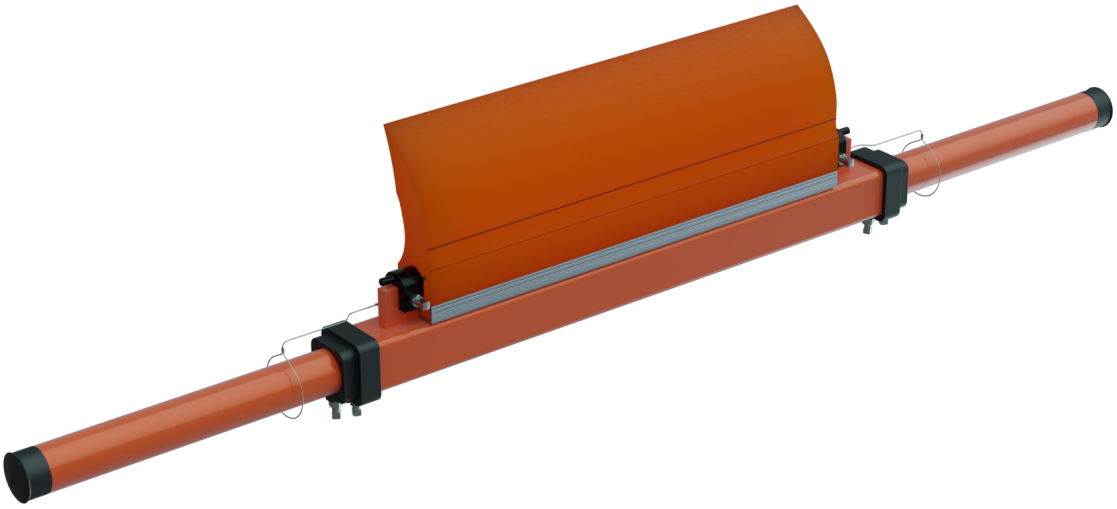
Martin® QC1+™ Cleaner XHD

Go to Martin® QC1+™ Cleaner XHD web page



Operator's Manual
M4175

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) ANSI/ASSP z244.1-2024, *The Control of Hazardous Energy Lockout, Tagout And Alternative Methods and Occupational Safety* and Health Administration (OSHA) Federal Register, Title 29 Subtitle B Chapter XVII Subpart J 1910.147, *Control of Hazardous Energy Source (Lockout/Tagout);* Final Rule.

The following symbols may be used in this manual:

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

IMPORTANT

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

NOTE

Note: General statements to assist the reader.

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Introduction

General

The Martin® QC1+™ Cleaner XHD combines effective removal of carryback with "quick-change" replacement of a long-lasting, one-piece blade. To introduce product back into the product flow, the Martin® QC1+™ Cleaner XHD is installed on the face of the head pulley. On a dual-cleaner system, a Secondary Cleaner is installed immediately following the Pre-Cleaner to remove stubborn material left on the conveyor belt. If a Pre-Cleaner cannot be used because of space limitations, Secondary Cleaners can be installed alone. Multiple Pre-Cleaners and/or Secondary Cleaners may be required to clean the belt. If the material-handling process or product could be affected by contamination from the use of these belt cleaners, the user is responsible for taking the necessary steps to prevent contamination. Consult Martin Engineering or a representative for alternate belt cleaners or belt cleaner locations to use where contamination may be an issue.

Installations without chutework

These procedures were written for equipment that is being installed on enclosed pulley chutework. If the pulley is not enclosed, the equipment should be installed using the best available field resources and methods to ensure that the critical dimensions are followed for proper installation.

Belt cleaner inspection access

If the belt cleaner is installed on enclosed pulley chutework, at least one Martin® Inspection Door should be installed. Martin® Inspection Doors are available from Martin Engineering or a representative.

Belt cleaner blades

Martin® QC1+™ Cleaner XHD Blades are available in five different materials (see Table I for specifications). Only standard (orange) Martin® QC1+™ Cleaner XHD Blades are made of materials that meet Mine Safety and Health Administration (MSHA) requirements under "Interim Fire and Toxicity Criteria for Products Taken Into Underground Mines," March 22, 1977 (MSHA acceptance number MSHA-IC-95/1, MSHA-IC-95/7).

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.

- *Martin® Inspection Door Operator's Manual, P/N M3891*
- *Martin® Universal Spring Tensioners XHD, HD Max and PD Operator's Manual, P/N M3512*

Materials required

Installation of this equipment requires the use of standard hand tools, grinder, welder, and cutting torch.

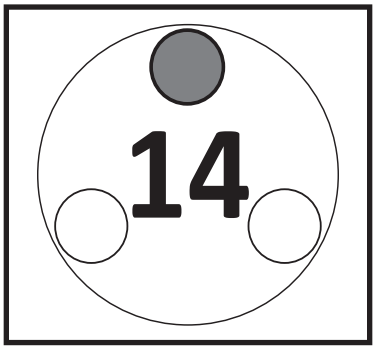
Table I. Martin® QC1+ ™ Cleaner XHD Blade Colors, Materials and Specifications

Urethane Selection	Application Description	Typical Materials	Continuous Temperature
Orange (O)	**Standard Martin® Urethane** Suitable for 80% or more of all belt cleaner applications, including abrasive conditions. Best choice for exposure to solvents or oil.	Bauxite, Coke, Coal, Overburden Refuse	-20° to 160°F (-29° to 71°C)
Brown (B)	**Chemical-Resistant Urethane** Improves resistance to chemicals; reduced absorption of water in high-moisture environments.	Limestone	-40° to 160° F (40° to 71°C)
Green (G)	**High-Temperature Urethane** For exposure to intermittent temperatures up to 350°F (177°C).	Clinker	-40° to 300°F (-40 to 149°C)
Tan (T)	**Low-Rigidity Urethane** For dry products such as sand and gravel.	Gravel, Dry Sand	-20° to 160°F (-29° to 71°C)
Navy Blue (N)	**Low-Adhesion Urethane** For sticky or tacky materials.	Cement, Glass, Wood Chips	-20° to 160°F (-29° to 71°F)
Yellow w/ Ceramic Beads (C)	**Highly Abrasive-Resistant Urethane** For abrasive applications		-20° to 160°F (-29° to 71°C)

IMPORTANT

Urethane shelf life

Urethane put in service after exceeding it's shelf life may wear differently and deteriorate quicker than normal urethane.



NOTE

Code Date is written near bottom of blade as mm/dd/yy-x. In addition to or in place of this date, you may see an imprinted date medallion similar to the example shown. In this example, "14" stands for the year 2014. The small circles represent the quarter of the year. If three circles are "punched" the blade was produced in the first quarter. If none of the circles are "punched" the blade was produced in the fourth quarter. If code date on your blade(s) is not legible or is missing, contact Martin Engineering or a representative.

Table II. Urethane Shelf Life

Blade Color	Shelf Life
Blue	1 Year from Code Date
Brown	2 Years from Code Date
Tan	1 Year from Code Date
Green	2 Years from Code Date
Orange	1 Year from Code Date
Yellow w/ Ceramic Beads	1 Year from Code Date

Safety

All safety rules defined in the above documents and all owner/employer safety rules must be strictly followed when working on the belt cleaner.

⚠ DANGER

Do not touch or go near the conveyor belt or conveyor accessories when the belt is running. Your body or clothing can get caught and you can be pulled into the conveyor, resulting in severe injury or death.

⚠ DANGER

Before installing, servicing, or adjusting the belt cleaner, 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.

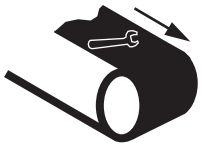
⚠ DANGER

If this equipment will be installed in an enclosed area, test the gas level or dust content before using a cutting torch or welding. Using a torch or welding in an area with gas or dust may cause an explosion resulting in serious injury or death. Follow local confined space procedures.

⚠ WARNING

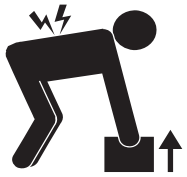
Before using a cutting torch or welding the chute wall, cover the conveyor belt with a fire retardant cover. Failure to do so can allow the belt to catch fire. Follow local fire watch procedures

⚠ WARNING



Remove all tools from the installation area and conveyor belt before turning on the conveyor. Failure to do so can cause serious injury to personnel or damage to the belt and conveyor.

⚠ WARNING



Mainframe with blade can be heavy and may require two people to lift. Attempting to lift the belt cleaner without assistance could result in injury.

Before Installing Belt Cleaner

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 belt cleaner assembly from shipping container.
3. If anything is missing contact Martin Engineering or a representative.

⚠WARNING

Before installing, servicing, or adjusting 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. Turn off and lockout / tagout / blockout / testout energy source according to ANSI standards (see "References").

⚠ DANGER

If this equipment will be installed in an enclosed area, test the gas level or dust content before using a cutting torch or welding. Using a torch or welding in an area with gas or dust may cause an explosion resulting in serious injury or death. Follow local confined space procedures.

5. If using a cutting torch or welding, test atmosphere for gas level or dust content. Cover conveyor belt with fire retardant cover.

IMPORTANT

Center the belt cleaner blades to clean an area narrower than the conveyor belt width. This allows for side-to-side movement of the belt and prevents damage to the belt edge.

NOTE

The chute wall that the tensioner will be located on is referred to as the "operator side." The other side of the chute is referred to as the "far side." (If installing dual tensioners, side that is most accessible is "operator side.")

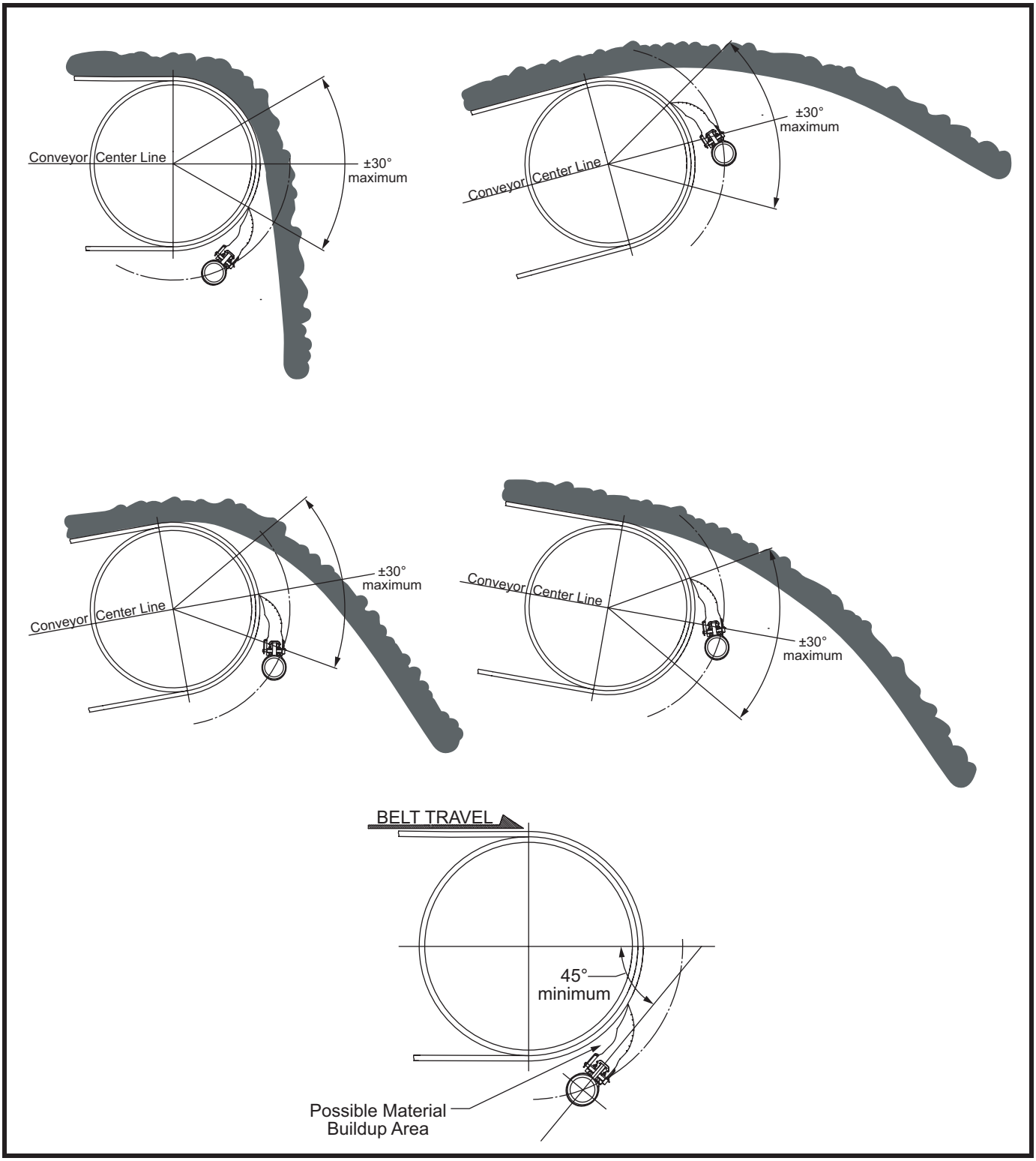
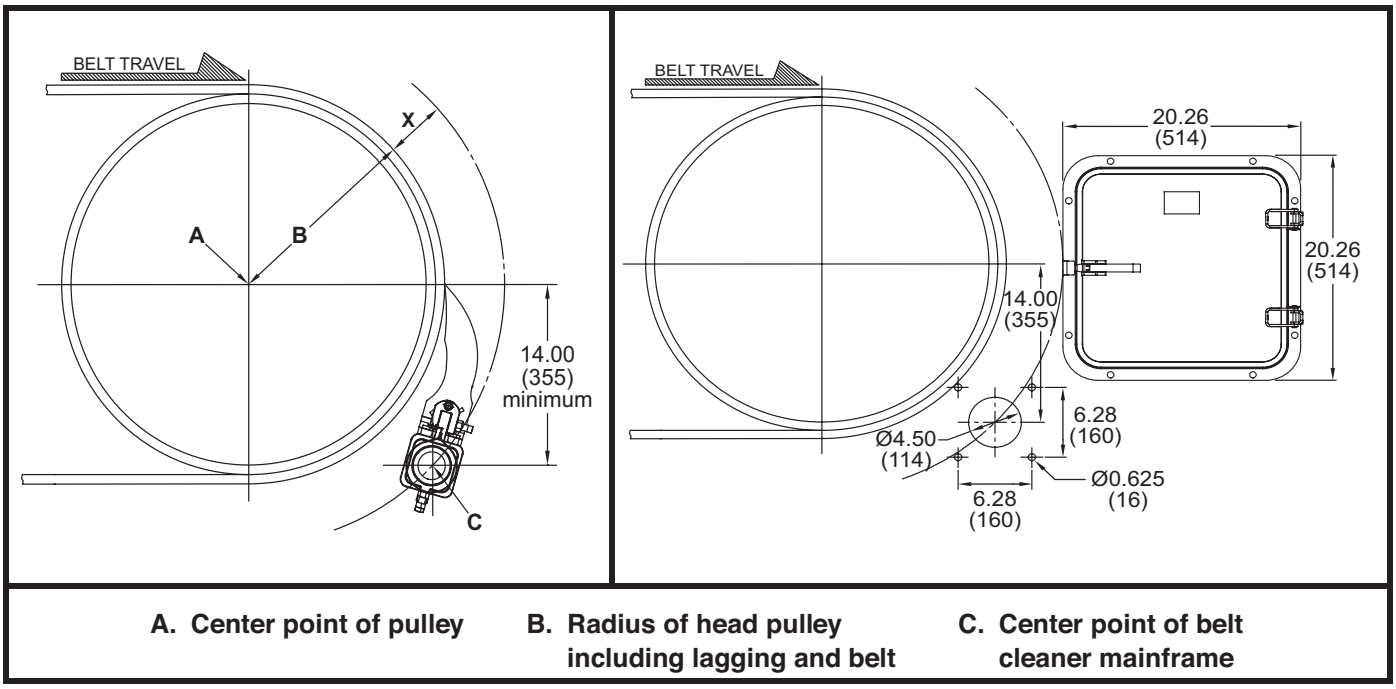


Figure 1. Belt Cleaner Mounting Locations

6. Inspect belt cleaner mounting area for possible obstructions that could interfere with proper mounting. Refer to following guidelines:
   a. The cleaner can be mounted anywhere on the arc from +30 degrees to -30 degrees from a center line parallel to the belt line as long as:
      (1) The blade is not in the direct flow of discharging material causing premature blade wear.
      (2) The diameter of the pulley is big enough that the blade does not trap or hold material between the inside of the blade and the belt.
      (3) There is at least the equivalent of a 45 degree angle between the blade and belt to prevent material buildup in this space.
   b. Lack of service is the main cause of poor belt cleaning performance. Follow CEMA guidelines for access:
      (1) Clearance for service outside the chute must be at least equal to the belt width.
      (2) Cleaners must have service platforms. CEMA recommends cleaners be mounted at least 24 in. (600 mm) above the work platform.
      (3) If the belt width is 54 in. (1400 mm) or larger consider access doors on both sides of the chute.
   c. Refer to “Installing Belt Cleaner and Tensioner and “Part Numbers” sections of this manual for specific mounting and cleaner dimensions

Installing Belt Cleaner and Tensioner



A. Center point of pulley **B. Radius of head pulley including lagging and belt** **C. Center point of belt cleaner mainframe**

Figure 2. Belt Cleaner Mainframe Location & Chute Wall Cutouts

Locating belt cleaner mainframe

Pulley Diameter* In. (mm)	Dimension X In. (mm)
16 (400)	5.75 (146)
20 (500)	5.50 (140)
24 (600)	5.25 (133)
28 (700)	5.00 (127)
30 (750)	4.75 (120)
*Includes lagging & belt.	

1. On operator side of chute, find pulley center point (A).
2. Measure radius of head pulley including lagging and belt thickness (B). To this dimension, add dimension X from table.
3. Starting from center point (A), measure the total distance calculated in step 2 (B + X)and draw an arc on chute wall.
4. Measure down from pulley's horizontal centerline the distance shown in Figure 2 and draw a horizontal line parallel to it. Locate center point of belt cleaner mainframe (C) where this line intersects the arc on the chute wall.
5. Make sure mainframe and blade do not lie in path of material unloading from conveyor belt.
6. Repeat steps 1 through 5 for far side chute wall.
7. Drill or cut holes for tensioner mounting plates on chute walls as follows:
   a. If bolting tensioner mounting plates to chute walls, do the following:
      (1) Drill or cut one 4.50-in. hole for mainframe and four 5/8-in. holes for screws in both operator side and far side chute walls. Remove burrs and sharp edges.
   b. If welding tensioner mounting plates to chute walls, do the following:
      (1) Drill or cut one 4.50-in. hole for mainframe in both operator side and far side chute walls. Remove burrs and sharp edges.
8. If using Martin® Inspection Door, cut access door opening and mounting holes according to *Martin® Inspection Door Operator's Manual*, P/N M3891.

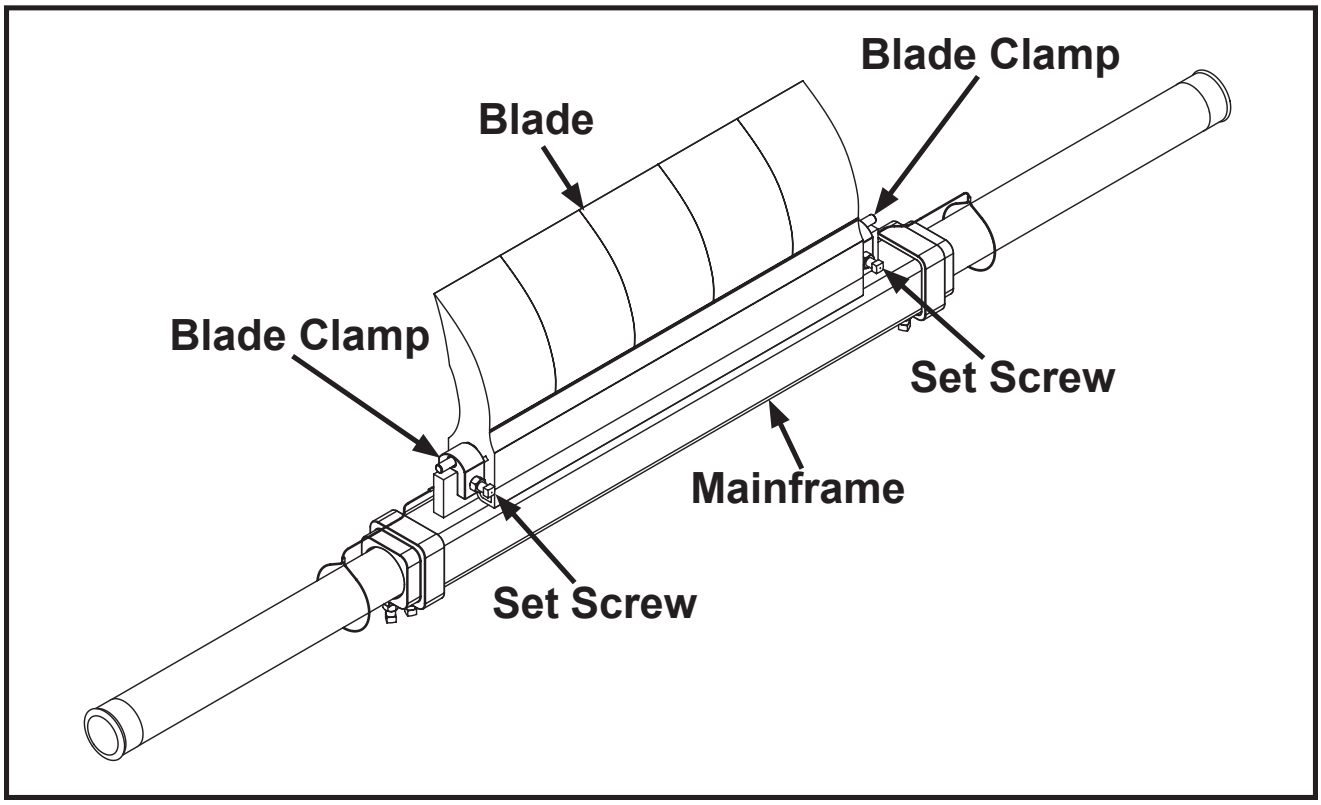


Figure 3. Removing and Installing Blade (Three-Piece Mainframe)

Removing Blade (Three Piece Mainframe)

1. Loosen set screws on each blade clamp. Remove blade clamp from blade and mainframe. Make sure blade clamp lanyards remain attached to mainframe.
2. Remove blade from mainframe.

Installing tensioner (Three Piece Mainframe)

1. Install tensioner according to applicable tensioner's manual.
2. If using Martin® Inspection Door, install according to *Martin® Inspection Door Operator's Manual*, P/N M3891.

Installing blade (Three Piece Mainframe)

1. Position blade on mainframe with blade curve facing conveyor belt.
2. Install blade clamps onto mainframe and insert into blade.
3. Center blade on mainframe and tighten blade clamp set screws.
4. Make sure blades are centered on belt and mainframe is parallel to belt.
5. Tension belt cleaner according to applicable tensioner's manual.

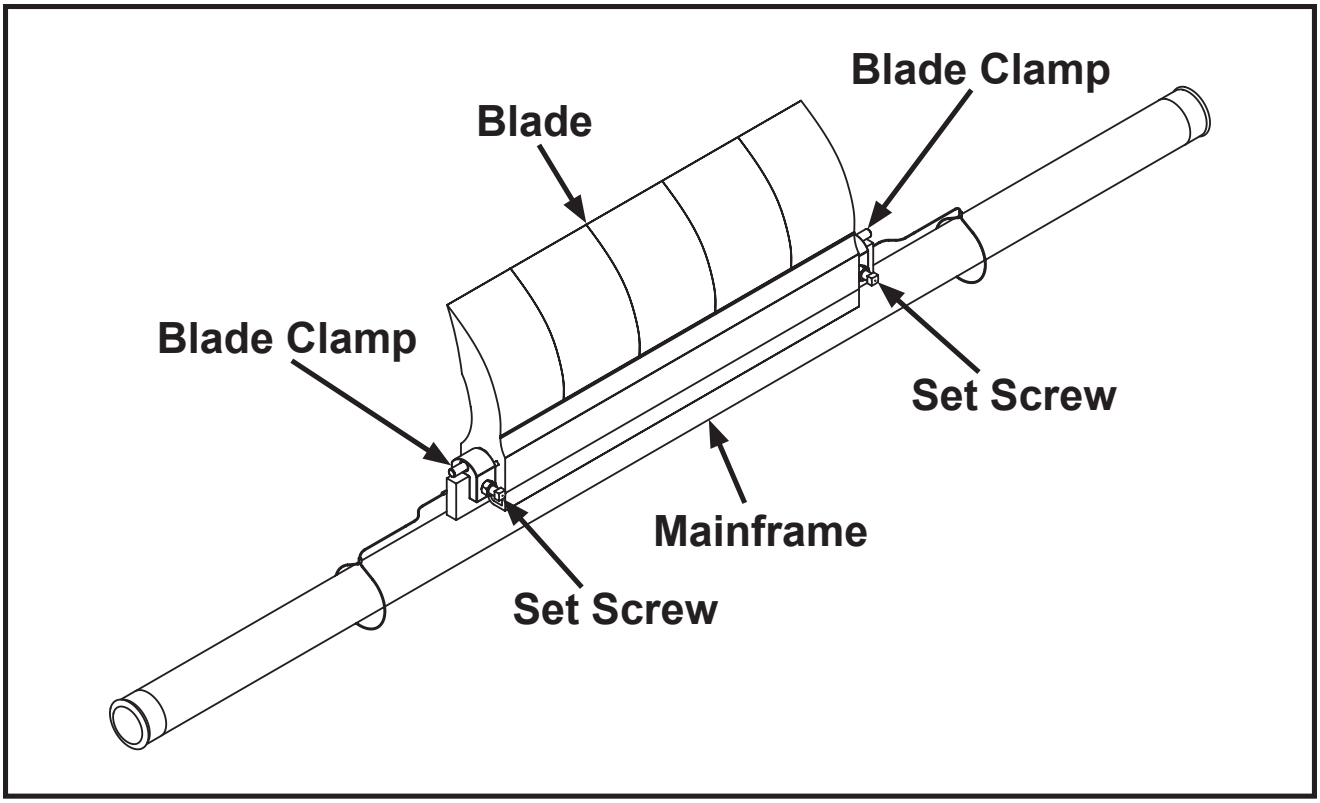


Figure 4. Removing and Installing Blade (One-Piece Mainframe)

Removing Blade (One Piece Mainframe)

1. Loosen set screws on each blade clamp. Remove blade clamp from blade and mainframe. Make sure blade clamp lanyards remain attached to mainframe.
2. Remove blade from mainframe.

Installing tensioner (One Piece Mainframe)

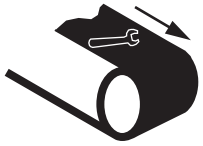
1. Install tensioner according to applicable tensioner's manual.
2. If using Martin® Inspection Door, install according to *Martin® Inspection Door Operator's Manual*, P/N M3891.

Installing blade (One Piece Mainframe)

1. Position blade on mainframe with blade curve facing conveyor belt.
2. Install blade clamps onto mainframe and insert into blade.
3. Center blade on mainframe and tighten blade clamp set screws.
4. Make sure blades are centered on belt and mainframe is parallel to belt.
5. Tension belt cleaner according to applicable tensioner's manual.

After Installing Belt Cleaner

1. Thoroughly wipe chute wall clean above tensioner.
2. Place Conveyor Products Warning Label (P/N 23395) on outside chute wall visible to belt cleaner operator.
3. Additional safety labels are available from CEMA. For more information regarding CEMA safety labels visit www.cemanet.org.



⚠WARNING

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.

⚠ 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.

4. Turn on conveyor belt for 1 hour, then turn off.

⚠ DANGER

Before installing, servicing, or adjusting the belt cleaner/tensioner, 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.

a. Make sure all fasteners are tight. Tighten if necessary.

b. Make sure cleaner is not changing belt line. If it is, install belt support ahead of blade-to-belt contact point (Secondary Cleaner).

c. Inspect belt cleaner for the following:
   - Wear. (A small amount of "break-in" wear may be found. This will stop once blades wear to conveyor belt contour.)
   - Material buildup. (No material between blades and return side of conveyor belt should be found.)

d. If wear, material buildup, or some other problem exists, see "Troubleshooting."

Weekly Maintenance

IMPORTANT

Read entire section before beginning work.

NOTE

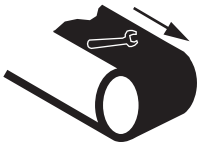
Maintenance inspection should be performed no less than weekly. Some applications may require more frequent maintenance inspections.

⚠ DANGER

Before installing, servicing, or adjusting the belt cleaner/ tensioner, 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. Remove any material from belt cleaner.
2. Make sure all fasteners are tight. Tighten if necessary.
3. Check tension on cleaner. Re-tension if necessary.
4. Wipe all labels clean. If labels are not readable, contact Martin Engineering or a representative for replacements.
5. Check blades for excessive wear. Replace if necessary.
6. Remove equipment from service if there is any indication it is not functioning properly. Call Martin Engineering or a representative for assistance. Do NOT return equipment to operation until the cause of the problem has been identified and corrected.

⚠WARNING



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

7. Remove all tools from maintenance area.

⚠ 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.

8. Start conveyor belt. Observe belt cleaner operation for several revolutions of the belt. Service or adjust belt cleaner as necessary to ensure proper belt cleaner operation.

Troubleshooting

Symptom	Corrective Action
Insufficient cleaning and carryback.	• Tension of cleaner on belt is set too low or too high. Increase or decrease tensioner setting. • Blades are worn. Check blades and replace if necessary.
Blade wears only in the center.	• Use a segmented style blade for crown pulleys. • Consider narrowing the blade width to clean the middle of the belt.
Noise or vibration.	Tension is not sufficient or is set too high. Correct tension as necessary. If this does not correct problem, blade urethane may not match application. Contact Martin Engineering or representative.
High blade wear rate.	Tension of cleaner on belt is set too high. Reduce tensioner setting.
Unusual wear or damage to blades.	Check belt splice(s) and repair as necessary.
Bent or broken mainframe or support frame due to blade slipping through.	If blades are worn to or past the wear line, replace blades. If blades are not worn, check mainframe location.
Corrosion or chemical degradation.	Blade urethane may not match application. Contact Martin Engineering or representative.

NOTE

Conveyor equipment such as conveyor belt cleaners are subject to a wide variety of bulk materials characteristics and often have to perform under extreme operating or environmental conditions. It is not possible to predict all circumstances that may require troubleshooting. Contact Martin Engineering or a representative if you are experiencing problems other than those listed in the "Troubleshooting" chart above. Do not return the equipment to operation until the problem has been identified and corrected.

Installation checklist

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

Installation Checklist
✓ Pre-Cleaner mainframe is proper distance from belt surface on both ends of mainframe and parallel to the pulley shaft.
✓ Pre-Cleaner blade tip is at or below horizontal center line of pulley and does not lie in path of material flow.
✓ Blades are centered on belt.

Part Numbers

This section provides product names and corresponding part numbers for Martin® QC1+™ Cleaner XHD and related equipment. Please reference part numbers when ordering parts:

Martin® QC1+™ Cleaner XHD

Martin® QC1+™ Cleaner XHD Mainframe Assembly with Three Piece Mainframe: P/N C1QCE3SXXSXXXXX. See Figure 5.

NOMENCLATURE **C1QCE3 SXX SX X X X X**

P/N Prefix
Belt Width (inches)
Blade Width (inches)
Urethane Color
Solid/Segmented
Mainframe
Tensioner

BELT WIDTH
SXX: XX indicates belt width in inches (18 thru 72)

BLADE WIDTH
00: No Blade
S6: 6 Inches less Belt Width
S8: 8 Inches less Belt Width
SC: 12 Inches less Belt Width

SOLID/SEGMENTED
0: Segmented Blade/No Blade
1: Solid Blade

URETHANE COLOR
0: No Blade
B: Brown
T: Tan
G: Green
N: Navy Blue
O: Orange
C: Yellow with Ceramic Beads

TENSIONER
Blank: No Tensioner
S: Martin® Spring Tensioner (P/N 38003 or 38003-2)
P: Martin® Stainless Steel Spring Tensioner (P/N 38003-C or 38003-2-C)

MAINFRAME
E: Painted Steel with Extended Torque Tubes and Aluminum Blade Insert
F: Stainless Steel with Steel Blade Insert
P: Painted Steel with Aluminum Blade Insert
T: Painted Steel with Steel Blade Insert
Z: Stainless Steel with Extended Torque Tubes and Steel Blade Insert

Martin® QC1+™ Cleaner XHD Mainframe Assembly with One Piece Mainframe: P/N C1QCE1SXXSXXXXX. See Figure 6.

NOMENCLATURE **C1QCE1 SXX SX X X X X**

P/N Prefix
Belt Width (inches)
Blade Width (inches)
Urethane Color
Solid/Segmented
Mainframe
Tensioner

BELT WIDTH
SXX: XX indicates belt width in inches (18 thru 72)

BLADE WIDTH
00: No Blade
S6: 6 Inches less Belt Width
S8: 8 Inches less Belt Width
SC: 12 Inches less Belt Width

SOLID/SEGMENTED
0: Segmented Blade/No Blade
1: Solid Blade

URETHANE COLOR
0: No Blade
B: Brown
T: Tan
G: Green
N: Navy Blue
O: Orange
C: Yellow with Ceramic Beads

MAINFRAME
F: Stainless Steel with Steel Blade Insert
P: Painted Steel with Aluminum Blade Insert
T: Painted Steel with Steel Blade Insert

TENSIONER
Blank: No Tensioner
S: Martin® Spring Tensioner (P/N 38003 or 38003-2)
P: Martin® Stainless Steel Spring Tensioner (P/N 38003-C or 38003-2-C)

Operator's manuals

Martin® Universal Spring Tensioner XHD, XHD and PD Operator's Manual: P/N M3512.

Martin® Inspection Door Operator's Manual: P/N M3891.

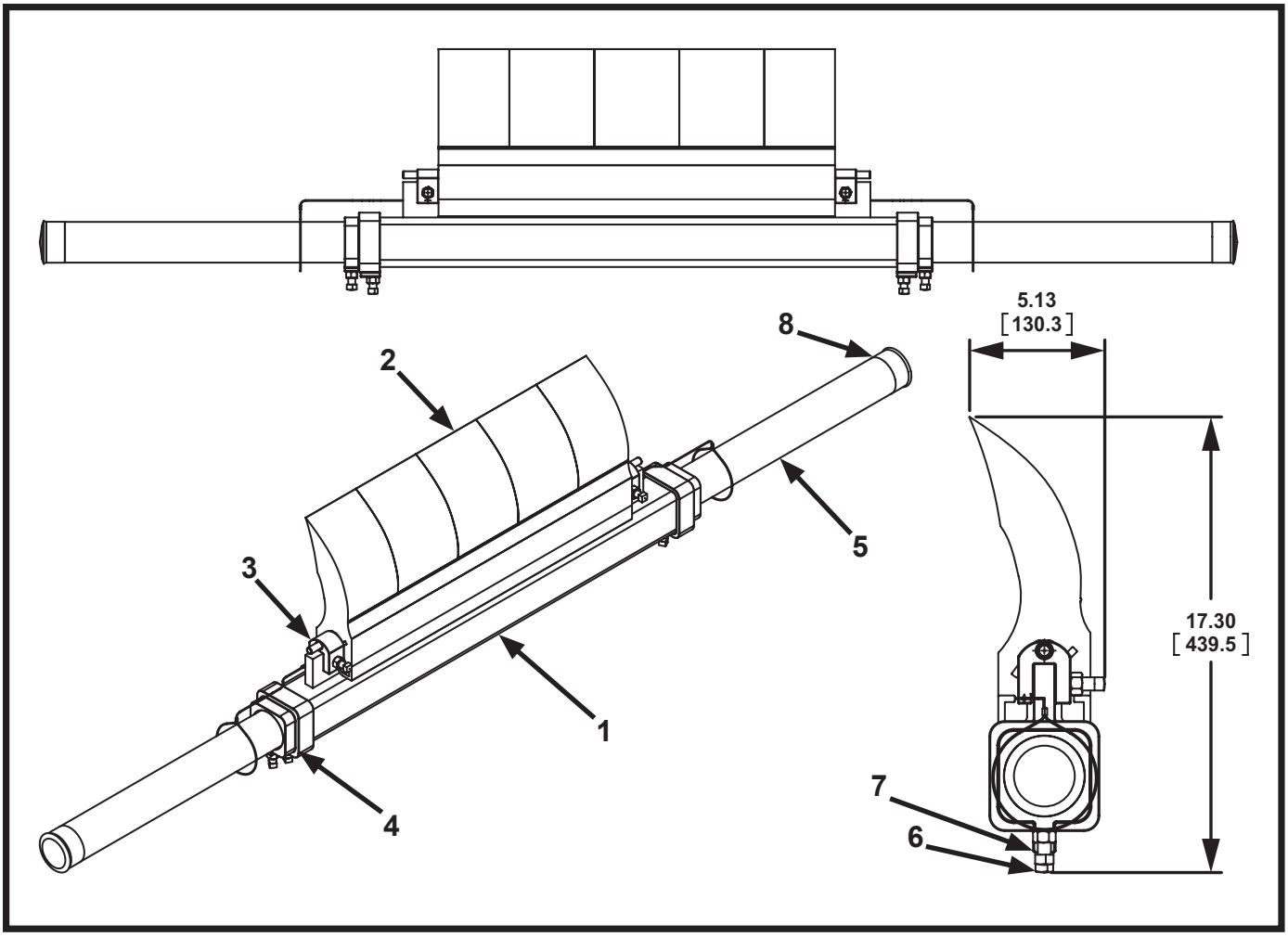


Figure 5. Martin® QC1+™ Cleaner XHD with Three-Piece Mainframe Assembly, P/N C1QCE3SXXSXXXXX

Item	Description	Part Number	Qty
1	Mainframe Weldment	Table III	1
2	Blade	Table III	1
3	Blade Clamp	C1QCA1006SX	2
4	Mainframe Collar	C1QCA1005SX	2
5	Torque Tube	Table III	2
6	Screw SHS 1/2-13NC x 1-1/2 SS	33190	6
7	Nut Hex 1/2-13NC GR 2 ZP	11771	6
8	Vinyl Cap W/ Flange	SUS10142	2
(NS) 9	Label Martin® Products	38048	2
(NS) 10	Label Conveyor Products Warning	23395	2
(NS) 11	Manual Operator's	M4175	1
(NS) 12	Martin® Universal Spring Tensioner Assembly	Table V	1

NS = Not Shown

Table III. Martin® QC1+™ Cleaner XHD with Three-Piece Mainframe Assembly Hardware Part Numbers

Part Number	P/N Item 1	P/N Item 2	P/N Item 5
C1QCE3S18S6XXPX	C1QCE3MS18P	C1QCEBS18S6XX	C1QCA1010S31T
C1QCE3S18S8XXPX	C1QCE3MS18P	C1QCEBS18S8XX	C1QCA1010S31T
C1QCE3S18SCXXPX	C1QCE3MS18P	C1QCEBS18SCXX	C1QCA1010S31T
C1QCE3S24S6XXPX	C1QCE3MS24P	C1QCEBS24S6XX	C1QCA1010S31T
C1QCE3S24S8XXPX	C1QCE3MS24P	C1QCEBS24S8XX	C1QCA1010S31T
C1QCE3S24SCXXPX	C1QCE3MS24P	C1QCEBS24SCXX	C1QCA1010S31T
C1QCE3S30S6XXPX	C1QCE3MS30P	C1QCEBS30S6XX	C1QCA1010S37T
C1QCE3S30S8XXPX	C1QCE3MS30P	C1QCEBS30S8XX	C1QCA1010S37T
C1QCE3S30SCXXPX	C1QCE3MS30P	C1QCEBS30SCXX	C1QCA1010S37T
C1QCE3S36S6XXPX	C1QCE3MS36P	C1QCEBS36S6XX	C1QCA1010S37T
C1QCE3S36S8XXPX	C1QCE3MS36P	C1QCEBS36S8XX	C1QCA1010S37T
C1QCE3S36SCXXPX	C1QCE3MS36P	C1QCEBS36SCXX	C1QCA1010S37T
C1QCE3S42S6XXPX	C1QCE3MS42P	C1QCEBS42S6XX	C1QCA1010S37T
C1QCE3S42S8XXPX	C1QCE3MS42P	C1QCEBS42S8XX	C1QCA1010S37T
C1QCE3S42SCXXPX	C1QCE3MS42P	C1QCEBS42SCXX	C1QCA1010S37T
C1QCE3S48S6XXPX	C1QCE3MS48P	C1QCEBS48S6XX	C1QCA1010S37T
C1QCE3S48S8XXPX	C1QCE3MS48P	C1QCEBS48S8XX	C1QCA1010S37T
C1QCE3S48SCXXPX	C1QCE3MS48P	C1QCEBS48SCXX	C1QCA1010S37T
C1QCE3S54S6XXPX	C1QCE3MS54P	C1QCEBS54S6XX	C1QCA1010S37T
C1QCE3S54S8XXPX	C1QCE3MS54P	C1QCEBS54S8XX	C1QCA1010S37T
C1QCE3S54SCXXPX	C1QCE3MS54P	C1QCEBS54SCXX	C1QCA1010S37T
C1QCE3S60S6XXPX	C1QCE3MS60P	C1QCEBS60S6XX	C1QCA1010S37T
C1QCE3S60S8XXPX	C1QCE3MS60P	C1QCEBS60S8XX	C1QCA1010S37T
C1QCE3S60SCXXPX	C1QCE3MS60P	C1QCEBS60SCXX	C1QCA1010S37T
C1QCE3S66S6XXPX	C1QCE3MS66P	C1QCEBS66S6XX	C1QCA1010S37T
C1QCE3S66S8XXPX	C1QCE3MS66P	C1QCEBS66S8XX	C1QCA1010S37T
C1QCE3S66SCXXPX	C1QCE3MS66P	C1QCEBS66SCXX	C1QCA1010S37T
C1QCE3S72S6XXPX	C1QCE3MS72P	C1QCEBS72S6XX	C1QCA1010S37T
C1QCE3S72S8XXPX	C1QCE3MS72P	C1QCEBS72S8XX	C1QCA1010S37T
C1QCE3S72SCXXPX	C1QCE3MS72P	C1QCEBS72SCXX	C1QCA1010S37T

Table IV. Martin® QC1+™ Cleaner XHD Assembly with Three-Piece Mainframe Assembly Blade Color Part Number Chart

Part Number	Blade Color & Segemented or Solid	P/N Item 2
C1QCE3SXXSXO0PX	Seg Orange	C1QCEBSXXSXO0
C1QCE3SXXSXO1PX	Sol Orange	C1QCEBSXXSXO1
C1QCE3SXXSXB0PX	Seg Brown	C1QCEBSXXSXB0
C1QCE3SXXSXB1PX	Sol Brown	C1QCEBSXXSXB1
C1QCE3SXXSXT0PX	Seg Tan	C1QCEBSXXSXT0
C1QCE3SXXSXT1PX	Sol Tan	C1QCEBSXXSXT1
C1QCE3SXXSXG0PX	Seg Green	C1QCEBSXXSXG0
C1QCE3SXXSXG1PX	Sol Green	C1QCEBSXXSXG1
C1QCE3SXXSXN0PX	Seg Navy Blue	C1QCEBSXXSXN0
C1QCE3SXXSXN1PX	Sol Navy Blue	C1QCEBSXXSXN1
C1QCE3SXXSXC0PX*	Seg Yellow W/ Ceramic Beads	C1QCEBSXXSXC0

**Only available segmented*

Table V. Martin® QC1+™ Cleaner XHD with Three-Piece Mainframe Assembly Tensioner Chart

Belt Width	P/N Item 12 Spring Tensioner
18 THRU 42	38003
48 AND ABOVE	38003-2

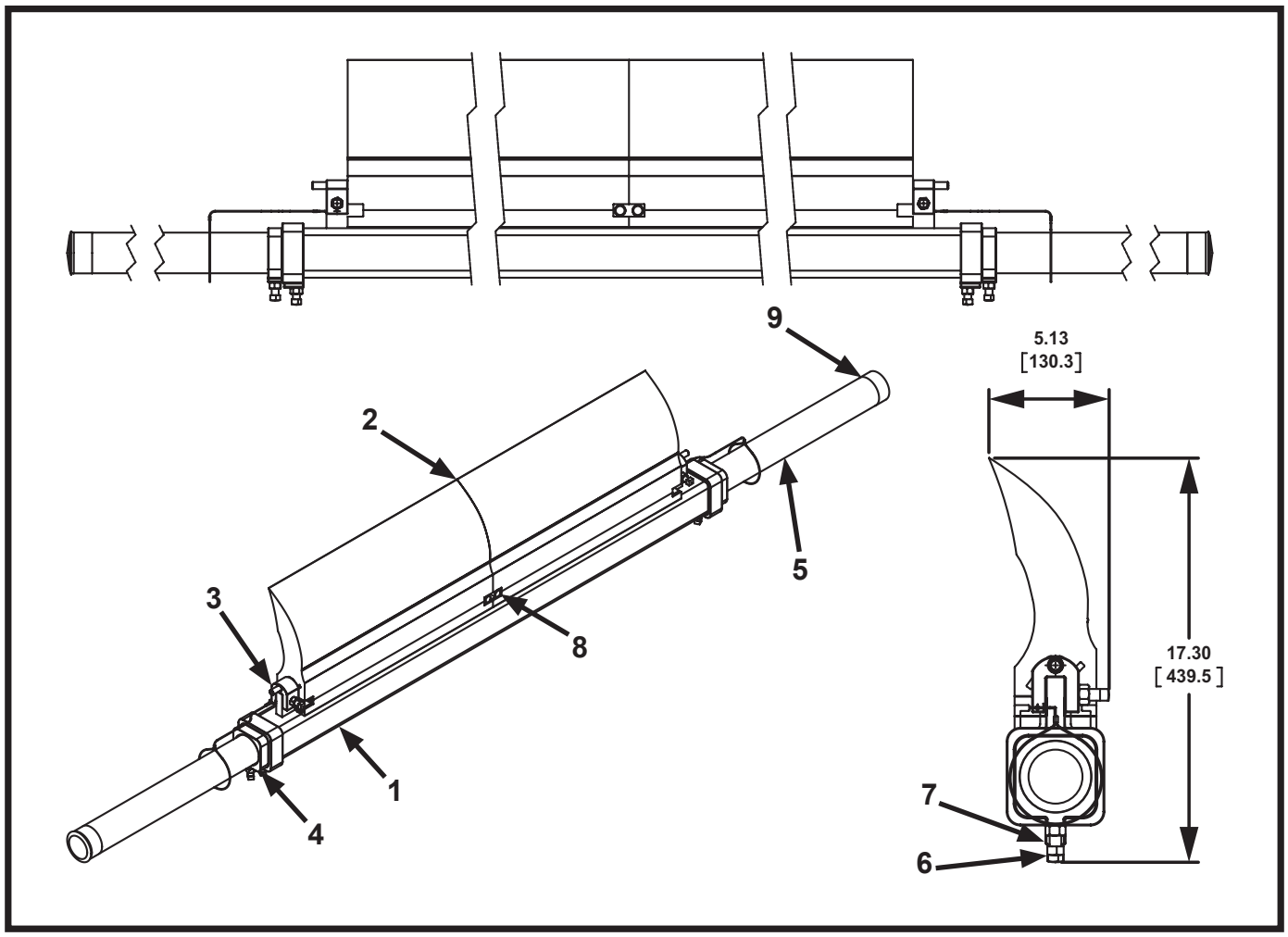


Figure 6. Martin® QC1+™ Cleaner XHD Dual Blade with Three-Piece Mainframe Assembly, P/N C1QCEDSXXSXXXXX

Item	Description	Part Number	Qty
1	Dual Blade Mainframe Weldment	Table VI	1
2	Dual Blade Kit	Table VI	1
3	Blade Clamp	C1QCA1006ST	Table VIII
4	Mainframe Collar	C1QCA1005ST	2
5	Torque Tube	C1QCA1010S42T	Table VIII
6	Screw SHS 1/2-13NC x 1-1/2 SS	33190	Table VIII
7	Nut Hex 1/2-13NC GR 2 ZP	11771	Table VIII
8	Knurled Pin 3/4 Dia.SS	36046	2
9	Vinyl Cap W/ Flange	SUS10142	2
(NS) 10	Label Martin® Products	38048	2
(NS) 11	Label Conveyor Products Warning	23395	2
(NS) 12	Manual Operator's	M4175	1
(NS) 13	Martin® Universal Spring Tensioner Assembly	38003-2	1

NS = Not Shown

Table VI. Martin® QC1+™ Cleaner XHD Dual Blade with Three-Piece Mainframe Assembly Hardware Part Numbers

Part Number	P/N Item 1	P/N Item 2
C1QCEDS54S6XXPX	C1QCE3MS54PD	C1QCEKS54S6XX
C1QCEDS54SCXXPX	C1QCE3MS54PD	C1QCEKS54SCXX
C1QCEDS60S6XXPX	C1QCE3MS60PD	C1QCEKS60S6XX
C1QCEDS60SCXXPX	C1QCE3MS60PD	C1QCEKS60SCXX
C1QCEDS72S6XXPX	C1QCE3MS72PD	C1QCEKS72S6XX
C1QCEDS72SCXXPX	C1QCE3MS72PD	C1QCEKS72SCXX
C1QCEDS78S6XXPX	C1QCE3MS78PD	C1QCEKS78S6XX
C1QCEDS78SCXXPX	C1QCE3MS78PD	C1QCEKS78SCXX
C1QCEDS84S6XXPX	C1QCE3MS84PD	C1QCEKS84S6XX
C1QCEDS84SCXXPX	C1QCE3MS84PD	C1QCEKS84SCXX
C1QCEDS90S6XXPX	C1QCE3MS90PD	C1QCEKS90S6XX
C1QCEDS90SCXXPX	C1QCE3MS90PD	C1QCEKS90SCXX
C1QCEDS96S6XXPX	C1QCE3MS96PD	C1QCEKS96S6XX
C1QCEDS96SCXXPX	C1QCE3MS96PD	C1QCEKS96SCXX
C1QCEDSA2S6XXPX	C1QCE3MSA2PD	C1QCEKSA2S6XX
C1QCEDSA2SCXXPX	C1QCE3MSA2PD	C1QCEKSA2SCXX
C1QCEDSA8S6XXPX	C1QCE3MSA8PD	C1QCEKSA8S6XX
C1QCEDSA8SCXXPX	C1QCE3MSA8PD	C1QCEKSA8SCXX
C1QCEDSC0S6XXPX	C1QCE3MSC0PD	C1QCEKSC0S6XX
C1QCEDSC0SCXXPX	C1QCE3MSC0PD	C1QCEKSC0SCXX
C1QCEDSC6S6XXPX	C1QCE3MSC6PD	C1QCEKSC6S6XX
C1QCEDSC6SCXXPX	C1QCE3MSC6PD	C1QCEKSC6SCXX

Table VII. Martin® QC1+™ Cleaner XHD Dual Blade with Three-Piece Mainframe Assembly Blade Color Part Number Chart

Part Number	Blade Color & Segemented or Solid	P/N Item 2
C1QCEDSXXSXO2PX	Seg Orange	C1QCEKSXXSXO2
C1QCEDSXXSXO3PX	Sol Orange	C1QCEKSXXSXO3
C1QCEDSXXSXB2PX	Seg Brown	C1QCEKSXXSXB2
C1QCEDSXXSXB3PX	Sol Brown	C1QCEKSXXSXB3
C1QCEDSXXSXT2PX	Seg Tan	C1QCEKSXXSXT2
C1QCEDSXXSXT3PX	Sol Tan	C1QCEKSXXSXT3
C1QCEDSXXSXG2PX	Seg Green	C1QCEKSXXSXG2
C1QCEDSXXSXG3PX	Sol Green	C1QCEKSXXSXG3
C1QCEDSXXSXN2PX	Seg Navy Blue	C1QCEKSXXSXN2
C1QCEDSXXSXN3PX	Sol Navy Blue	C1QCEKSXXSXN3

Table VIII. Martin® QC1+™ Cleaner XHD Dual Blade with Three-Piece Mainframe Assembly Quantities Chart

Part Number	QTY Item 3	QTY Item 5	QTY Item 6 & 7
C1QCEDSXXSXXXPX	0	2	4
C1QCEDSXX0000PX	2	2	6
C1QCEDSXXSXXXPL	0	0	4

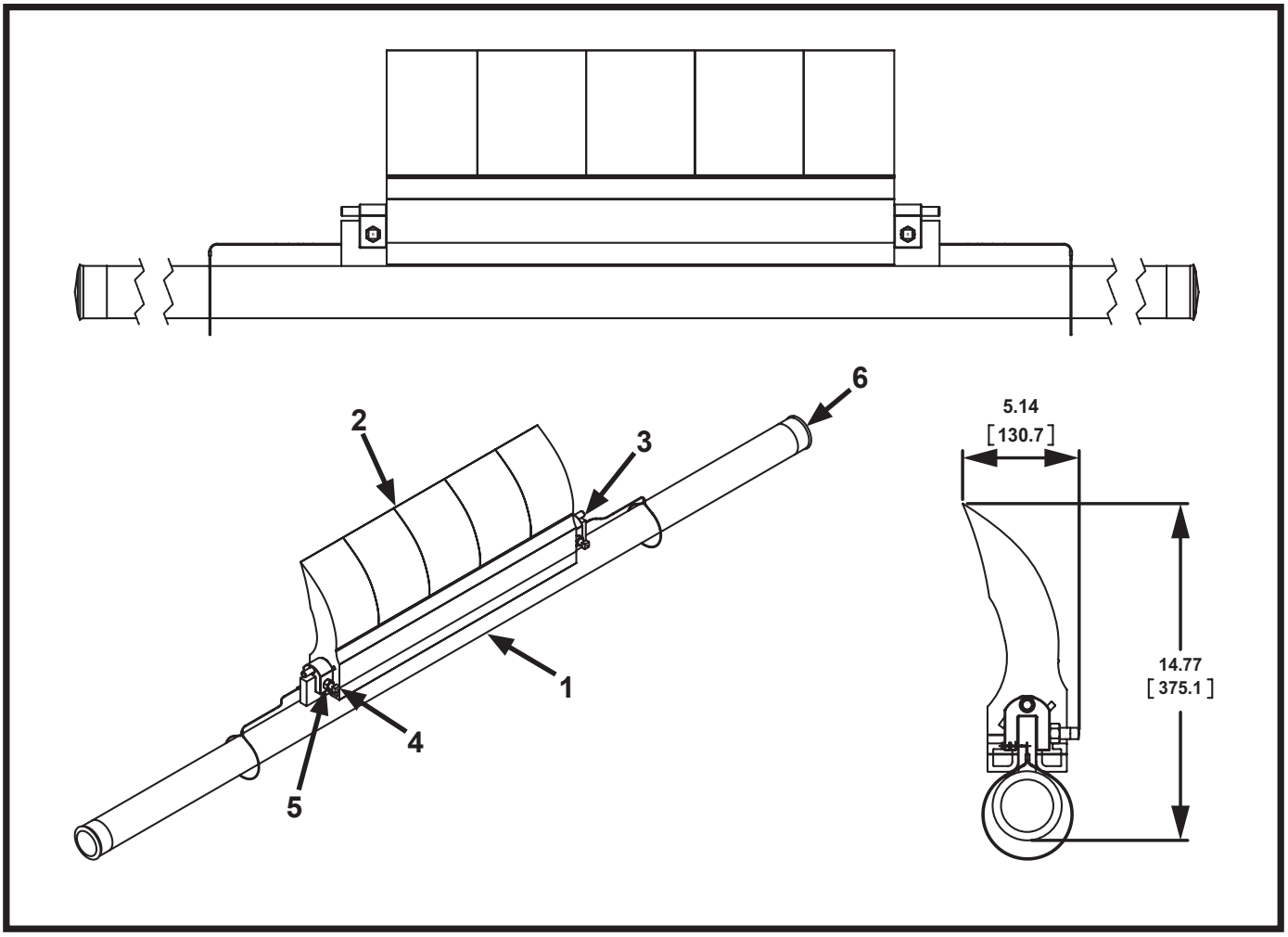


Figure 7. Martin® QC1+™ Cleaner XHD with One-Piece Mainframe Assembly, P/N C1QCE1SXXSXXXXX

Item	Description	Part Number	Qty
1	Mainframe Weldment	Table IX	1
2	Blade	Table IX	1
3	Blade Clamp	C1QCA1006ST	2
4	Screw SHS 1/2-13NC x 1-1/2 SS	33190	2
5	Nut Hex 1/2-13NC ZP	11771	2
6	Vinyl Cap w/ Flange	SUS10142	2
(NS) 7	Label Martin® Products	38048	2
(NS) 8	Label Conveyor Products Warning	23395	2
(NS) 9	Manual Operator's	M4173	1
(NS) 10	Tensioner Assembly	Table XI	1

NS = Not Shown

Table IX. Martin® QC1+™ Cleaner XHD with One-Piece Mainframe Assembly Hardware Part Numbers

Part Number	P/N Item 1	P/N Item 2
C1QCE1S18S6XXPX	C1QCE1MS18S6P	C1QCEBS18S6XX
C1QCE1S18S8XXPX	C1QCE1MS18S6P	C1QCEBS18S8XX
C1QCE1S18SCXXPX	C1QCE1MS18S6P	C1QCEBS18SCXX
C1QCE1S24S6XXPX	C1QCE1MS24S6P	C1QCEBS24S6XX
C1QCE1S24S8XXPX	C1QCE1MS24S6P	C1QCEBS24S8XX
C1QCE1S24SCXXPX	C1QCE1MS24S6P	C1QCEBS24SCXX
C1QCE1S30S6XXPX	C1QCE1MS30S6P	C1QCEBS30S6XX
C1QCE1S30S8XXPX	C1QCE1MS30S6P	C1QCEBS30S8XX
C1QCE1S30SCXXPX	C1QCE1MS30S6P	C1QCEBS30SCXX
C1QCE1S36S6XXPX	C1QCE1MS36S6P	C1QCEBS36S6XX
C1QCE1S36S8XXPX	C1QCE1MS36S6P	C1QCEBS36S8XX
C1QCE1S36SCXXPX	C1QCE1MS36S6P	C1QCEBS36SCXX
C1QCE1S42S6XXPX	C1QCE1MS42S6P	C1QCEBS42S6XX
C1QCE1S42S8XXPX	C1QCE1MS42S6P	C1QCEBS42S8XX
C1QCE1S42SCXXPX	C1QCE1MS42S6P	C1QCEBS42SCXX
C1QCE1S48S6XXPX	C1QCE1MS48S6P	C1QCEBS48S6XX
C1QCE1S48S8XXPX	C1QCE1MS48S6P	C1QCEBS48S8XX
C1QCE1S48SCXXPX	C1QCE1MS48S6P	C1QCEBS48SCXX
C1QCE1S54S6XXPX	C1QCE1MS54S6P	C1QCEBS54S6XX
C1QCE1S54S8XXPX	C1QCE1MS54S6P	C1QCEBS54S8XX
C1QCE1S54SCXXPX	C1QCE1MS54S6P	C1QCEBS54SCXX
C1QCE1S60S6XXPX	C1QCE1MS60S6P	C1QCEBS60S6XX
C1QCE1S60S8XXPX	C1QCE1MS60S6P	C1QCEBS60S8XX
C1QCE1S60SCXXPX	C1QCE1MS60S6P	C1QCEBS60SCXX
C1QCE1S66S6XXPX	C1QCE1MS66S6P	C1QCEBS66S6XX
C1QCE1S66S8XXPX	C1QCE1MS66S6P	C1QCEBS66S8XX
C1QCE1S66SCXXPX	C1QCE1MS66S6P	C1QCEBS66SCXX
C1QCE1S72S6XXPX	C1QCE1MS72S6P	C1QCEBS72S6XX
C1QCE1S72S8XXPX	C1QCE1MS72S6P	C1QCEBS72S8XX
C1QCE1S72SCXXPX	C1QCE1MS72S6P	C1QCEBS72SCXX

Table X. Martin® QC1+™ Cleaner XHD with One-Piece Mainframe Assembly Blade Color Part Number Chart

Part Number	Blade Color & Segemented or Solid	P/N Item 2
C1QCE1SXXSXO0PX	Seg Orange	C1QCEBSXXSXO0
C1QCE1SXXSXO1PX	Sol Orange	C1QCEBSXXSXO1
C1QCE1SXXSXB0PX	Seg Brown	C1QCEBSXXSXB0
C1QCE1SXXSXB1PX	Sol Brown	C1QCEBSXXSXB1
C1QCE1SXXSXT0PX	Seg Tan	C1QCEBSXXSXT0
C1QCE1SXXSXT1PX	Sol Tan	C1QCEBSXXSXT1
C1QCE1SXXSXG0PX	Seg Green	C1QCEBSXXSXG0
C1QCE1SXXSXG1PX	Sol Green	C1QCEBSXXSXG1
C1QCE1SXXSXN0PX	Seg Navy Blue	C1QCEBSXXSXN0
C1QCE1SXXSXN1PX	Sol Navy Blue	C1QCEBSXXSXN1
C1QCE1SXXSXC0PX*	Seg Yellow W/ Ceramic Beads	C1QCEBSXXSXC0

**Only available segmented*

Table XI. Martin® QC1+™ Cleaner XHD with One-Piece Mainframe Assembly Tensioner Chart

Belt Width	P/N Item 12 Spring Tensioner
18 THRU 42	38003
48 AND ABOVE	38003-2

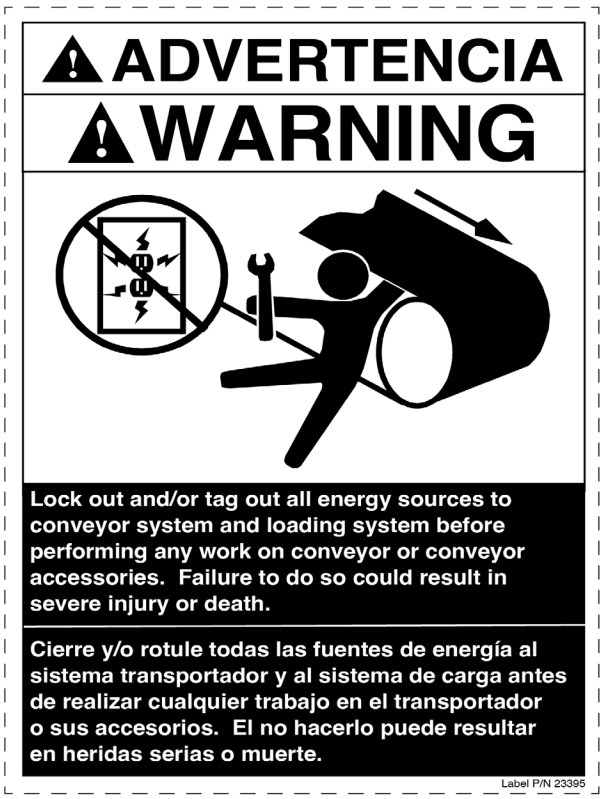
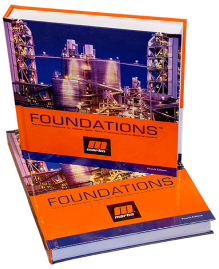


Figure 8. Conveyor Products Warning Label, P/N 23395

Problem Solved™ GUARANTEED!



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