

martin®

Martin® ***Carryback*** ***Capture System***

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Operator's Manual
M3807

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.

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Introduction

General

The Martin® Carryback Capture System is designed to return carryback from secondary and tertiary cleaners to the main cargo stream. Carryback from the secondary and tertiary cleaners falls into the collecting trough and is pushed back into the material flow by steel cleaning blades.

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.

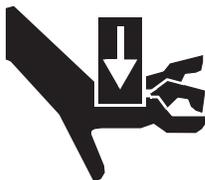
Safety

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



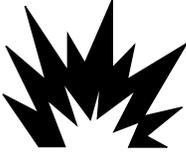
▲ DANGER

Do not touch or go near the scavenger conveyor when it is operating. When in operation scavenger conveyor produces multiple pinch points that could result in serious injury or death.



▲ DANGER

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

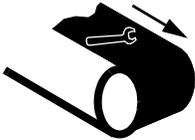


⚠ DANGER

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.

⚠ 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.



⚠ 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

Hydraulic oil under pressure can penetrate skin and result in injection poisoning. Special medical treatment is required for fluid injection injuries. If oil penetrates skin, see a doctor trained in fluid injection medicine immediately.

Before Installing Scavenger Conveyor

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.

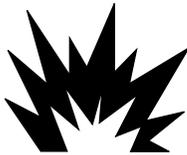
1. Inspect shipping container for damage. Report damage to delivery service immediately and fill out delivery service's claim form. Keep any damaged goods subject to examination.
2. Remove Martin® Carryback Capture System from shipping container.
3. If anything is missing contact Martin Engineering or a representative.



WARNING

Before installing equipment, turn off and lock out/ tag out 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 lock out/tag out 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.

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

Installing Scavenger Conveyor

Locating scavenger conveyor

IMPORTANT

Installation methods shown in this manual apply to the most common applications and may not suit your application. Contact Martin Engineering or a representative before installing Martin® Carryback Capture System to determine appropriate mounting location and method for your application.

IMPORTANT

Calculate weight of Martin® Carryback Capture System and live load of material prior to installation to determine support needed per the application (See Appendix). Based on the calculated weight of the scavenger conveyor, live load of material, and conveyor location select the best available field resources and methods to install scavenger conveyor.

IMPORTANT

Conveyor guarding may be required depending upon the application and location of scavenger conveyor.

An emergency stop may be required depending upon the application and location of scavenger conveyor.

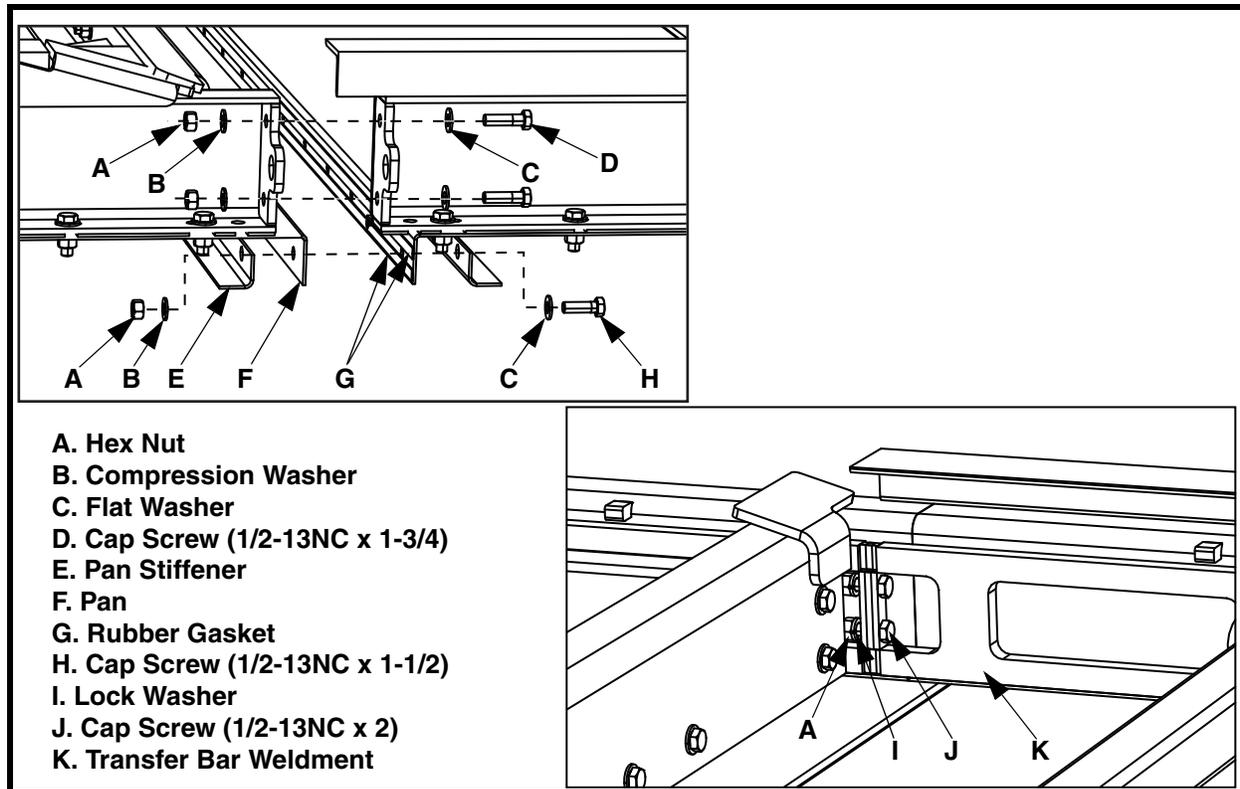


Figure 1. Assembling Scavenger Conveyor Sections

Assembling scavenger conveyor sections

1. Apply rubber gaskets (G) to pan (F) above and below bolt holes on the seam.
2. Align sections that are to be assembled together.
3. Attach sections to each other using cap screws (D), washers (B and C), and nuts (A). Repeat procedure on opposite side.
4. Install pan stiffeners (E) to pan (F) using cap screws (H), washers (B and C), and nuts (A).
5. Attach transfer bar weldments (K) to each other using cap screws (J), washers (I), and nuts (A). Repeat procedure on opposite side.
6. Repeat steps 1–5 for remaining sections.
7. Make sure all pivot ramps move freely.

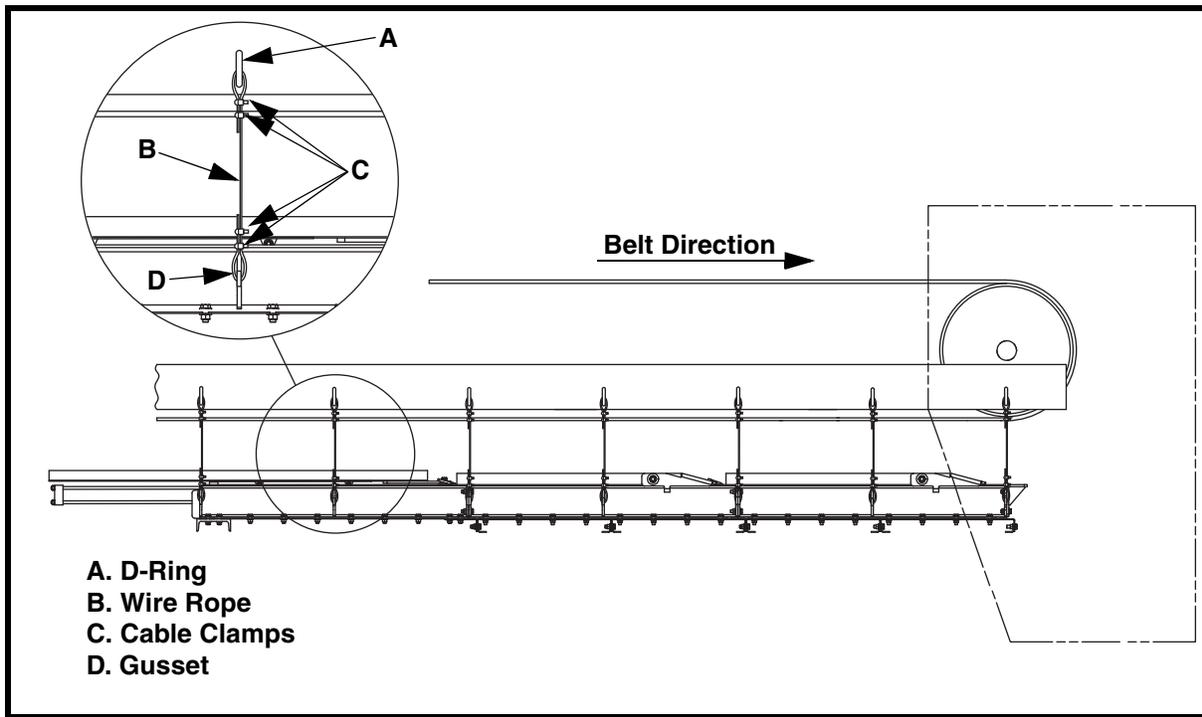


Figure 2. Installing Scavenger Conveyor on Conveyor Structure

Mounting to conveyor structure

1. Position and support scavenger conveyor under belt conveyor structure.
2. Scavenger conveyor should extend into chute far enough to return carryback to material flow.
3. Weld D-ring (A) onto stringer or conveyor structure with 1/4-in. (6-mm) field weld.
4. Insert wire rope (B) through D-ring, making a 3-in. (76-mm) loop.
5. Clamp wire rope with one cable clamp (C) as close to loop as possible. Place another cable clamp 1-3/4 in. (44 mm) from first clamp.
6. Leave at least 1 in. (25 mm) of wire rope on dead end.
7. Gradually tighten nuts alternately and evenly to 15 ft-lbs.
8. Insert other end of wire rope (B) through hole in gusset (D), making a 3-in. (76-mm) loop.
9. Pull wire rope taut.
10. Clamp wire rope with one cable clamp (C) as close to loop as possible. Place another cable clamp 1-3/4 in. (44 mm) from first clamp.
11. Leave at least 1 in. (25 mm) of wire rope on dead end.
12. Gradually tighten nuts alternately and evenly to 15 ft-lbs.
13. Repeat steps 3–12 on remaining gussets on both sides of scavenger conveyor.

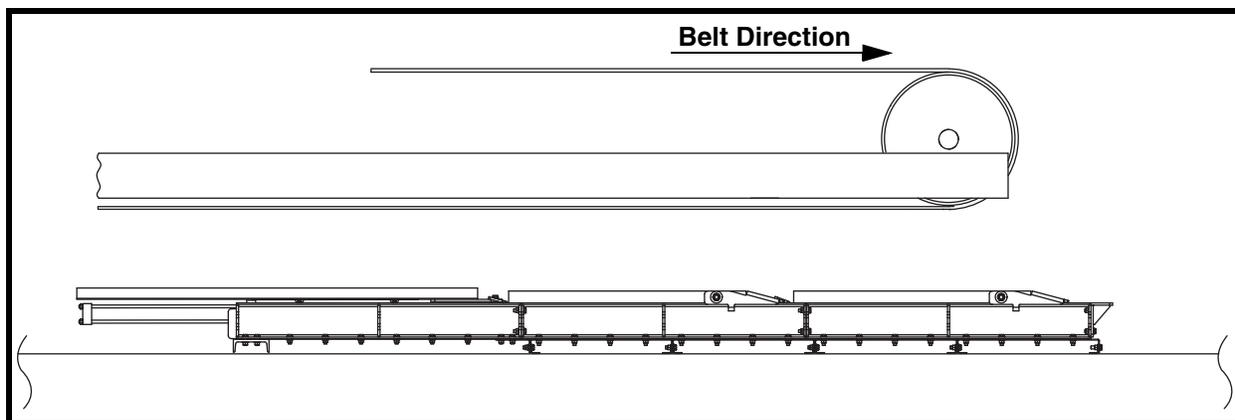


Figure 3. Installing Scavenger Conveyor on Flat Surface

Mounting on flat surface

1. Scavenger conveyor can be mounted to a firm level surface, such as concrete, below the conveyor.
2. Position scavenger conveyor under conveyor with discharge end far enough into chute to return carryback to material flow.
3. Anchor scavenger conveyor to surface using best available field resources and methods to ensure the scavenger conveyor is properly secured.

Installing control console

⚠ CAUTION

Do not mount control console in area subject to shock, vibration, temperatures exceeding 130°F (55°C), or explosion. Damage to controller circuitry could result.

IMPORTANT

Control console must be located within 30 feet of cylinder on scavenger conveyor. Mount control console so operator has a clear line of sight to scavenger conveyor.

1. Locate and mount control console within 30 feet of cylinder on scavenger conveyor.
2. The system should be mounted on a flat surface with adequate support.
3. Fill oil reservoir with hydraulic oil supplied. (Add additional oil to reservoir once cylinder is fully extended.)

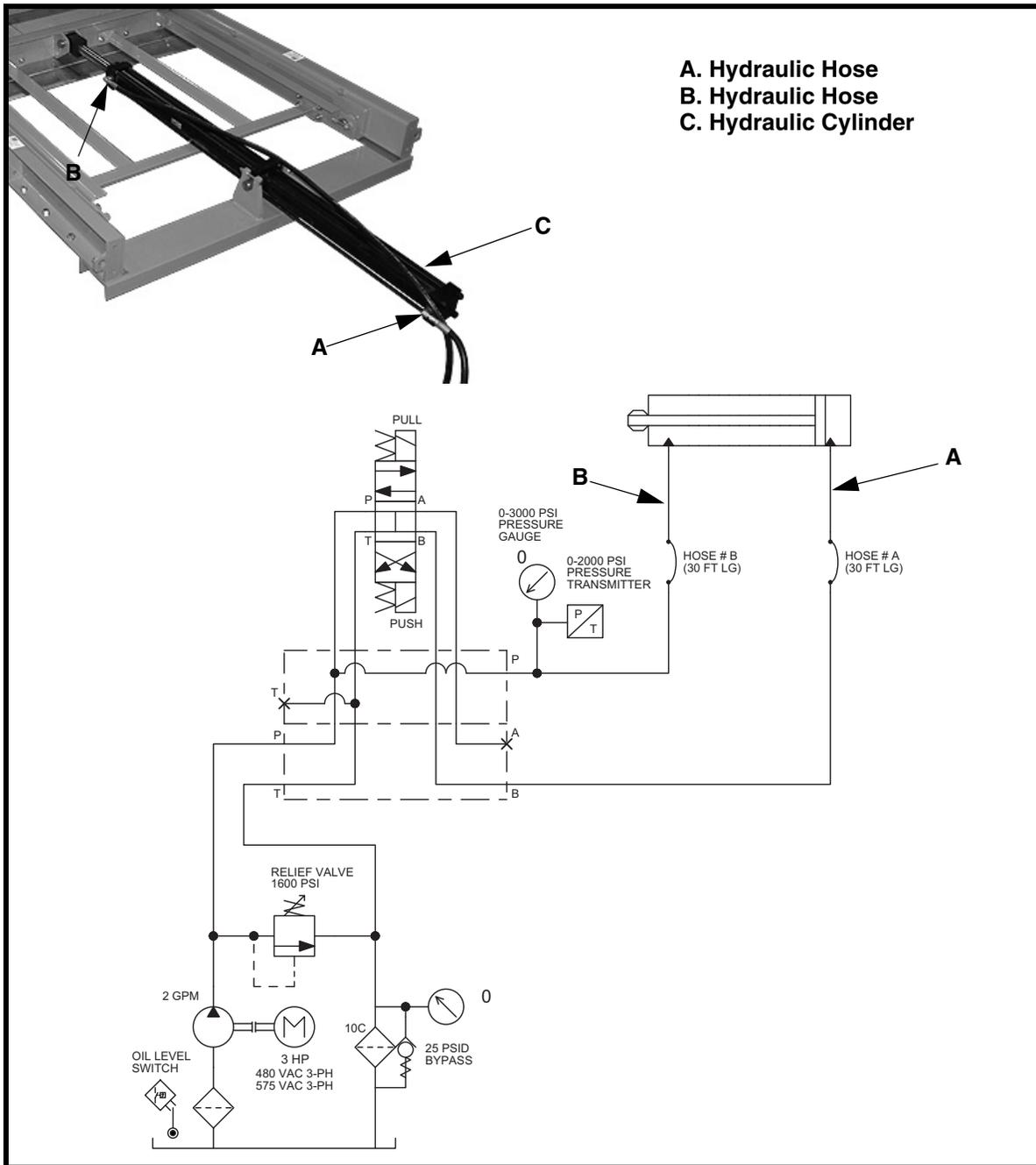


Figure 4. Installing Hydraulic Hoses

⚠ WARNING

Connecting hydraulic hoses

Hydraulic oil under pressure can penetrate skin and result in injection poisoning. Special medical treatment is required for fluid injection injuries. If oil penetrates skin, see a doctor trained in fluid injection medicine immediately.

1. Route hydraulic hoses (A and B) from control console to cylinder (C).
2. Attach hoses (A and B) to fittings on cylinder.
3. Make sure hoses are not subject to wear or pinching. Anchor hoses to prevent movement.

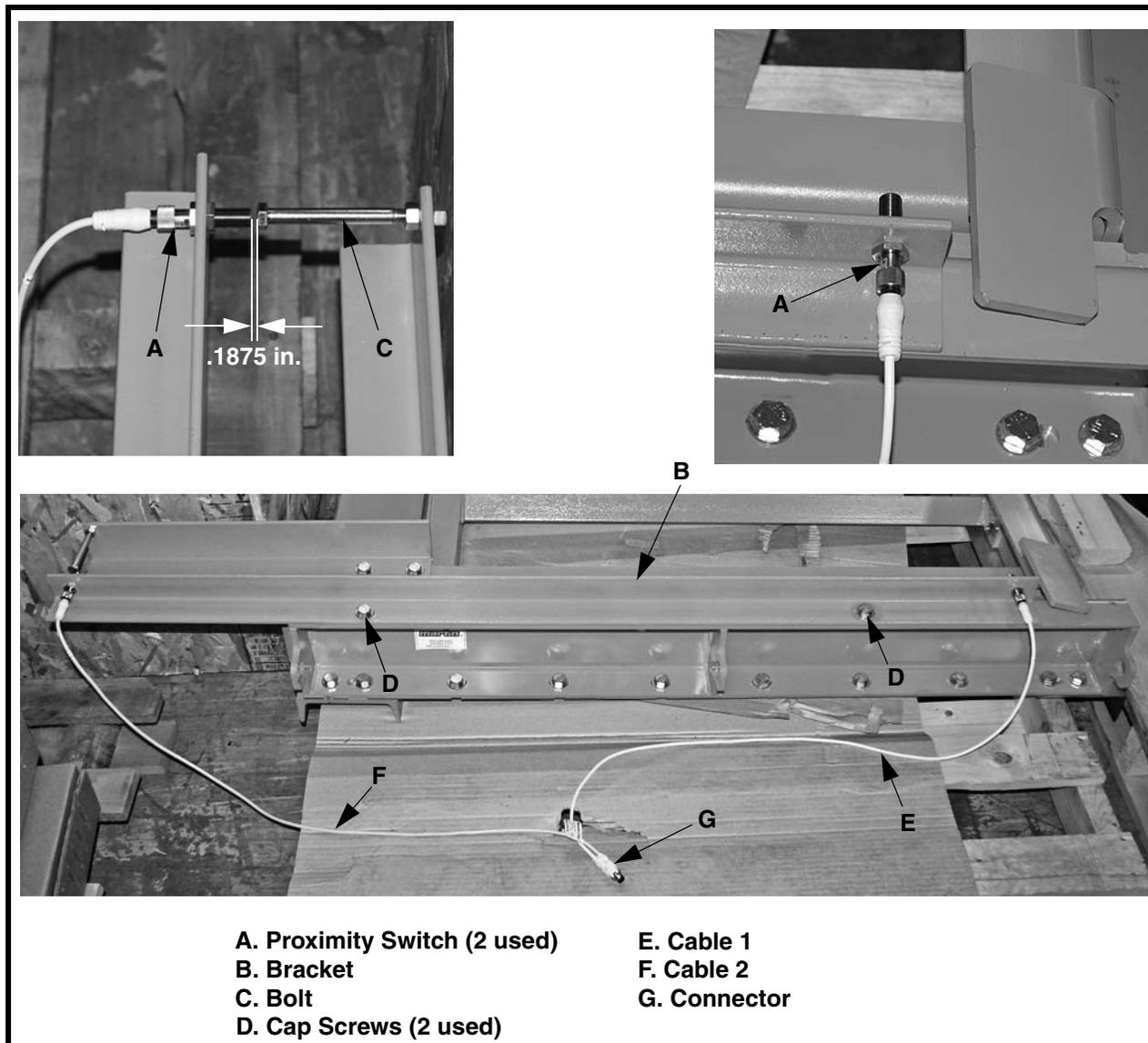


Figure 5. Installing Proximity Switches

Installing proximity switches

1. Fully retract cylinder.
2. Install proximity switches (A) on bracket (B).
3. Align proximity switch with head of bolt (C). It may be necessary to loosen cap screws (D) and move bracket (B).
4. Adjust proximity switches (A) so there is a 3/16 inch gap between the head of bolt (C) and each proximity switch. Extend and retract cylinder to ensure gap remains 3/16 inch.
5. Connect cable 1 (E) to proximity switch that activates when the cylinder is extended.
6. Connect cable 2 (F) to proximity switch that activates when the cylinder is retracted.
7. Route proximity switch cable from control console to connector (G).
8. Make sure cables are not subject to wear or pinching. Anchor cables to prevent movement.

Connecting power supply



⚠ WARNING

All electrical work must be done to National Electrical Code (NEC) standards. See “References.”

⚠ WARNING

Before making any connections, lock out/tag out electrical supply to control system according to ANSI standards (see “References”).

1. Route power wires into controller enclosure.
2. Power wires are connected to terminals on the main breaker switch (A). Connect ground wire to ground terminal (B) on terminal block.

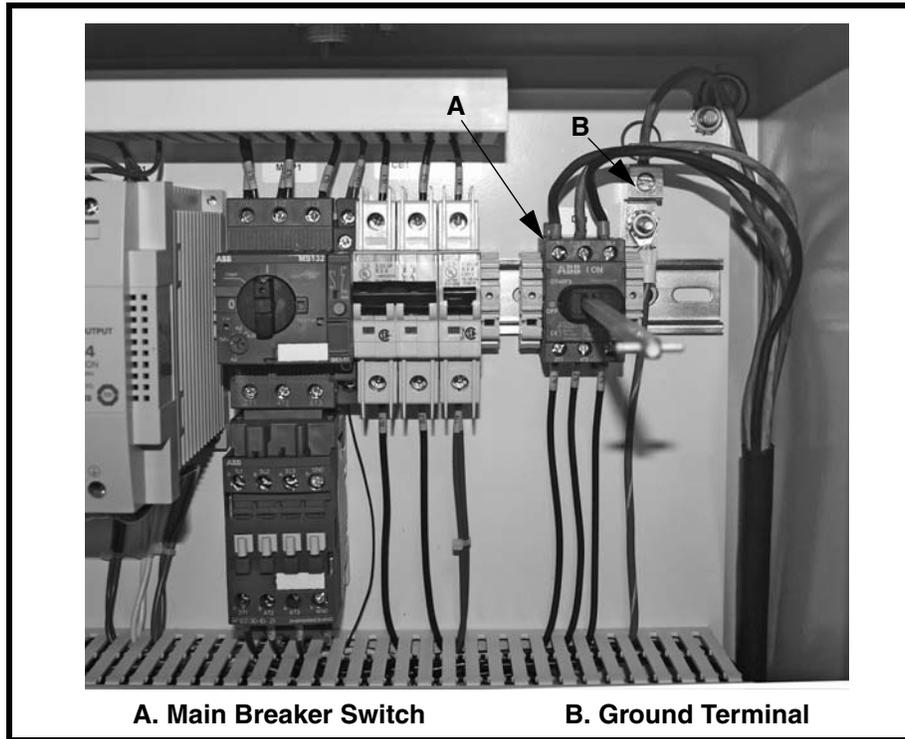


Figure 6. Connecting Power Supply

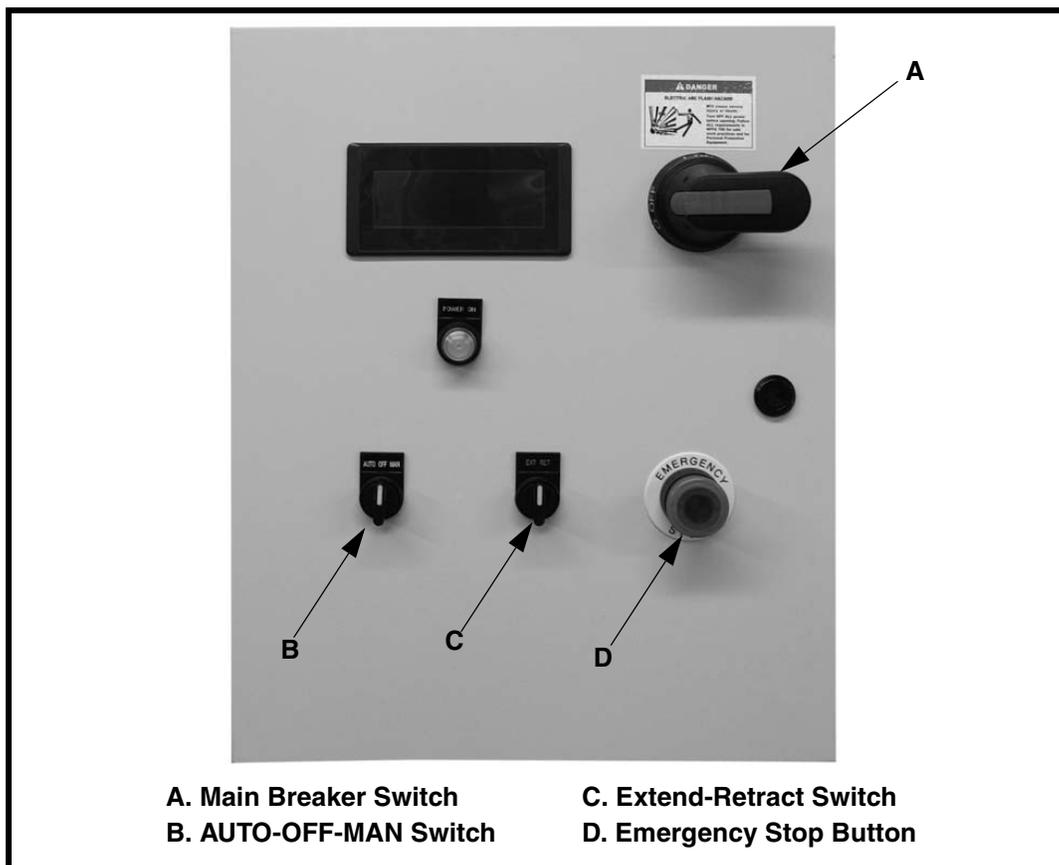


Figure 7. Control Panel

NOTE

Warning light on control console will turn on automatically before each cycle begins.

Manual operation

1. Turn main breaker switch (A) to the ON position.
2. Turn AUTO-OFF-MAN switch (B) to the MAN position.
3. Turn and hold Extend-Retract switch (C) on front of cabinet to extend or retract cylinder.

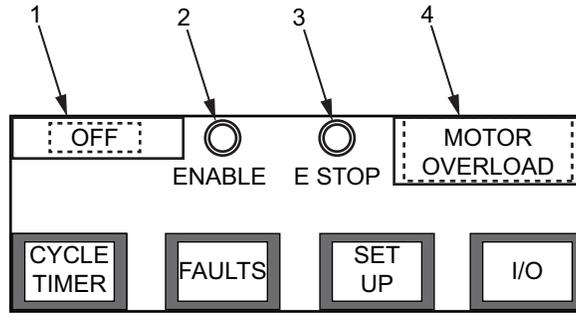
Automatic operation

1. Turn main breaker switch (A) to the ON position.
2. Turn AUTO-OFF-MAN switch (B) to the AUTO position.
3. Blade will push and pull automatically based on timer setting. Adjust timer setting to efficiently remove material.

Adjusting timer settings

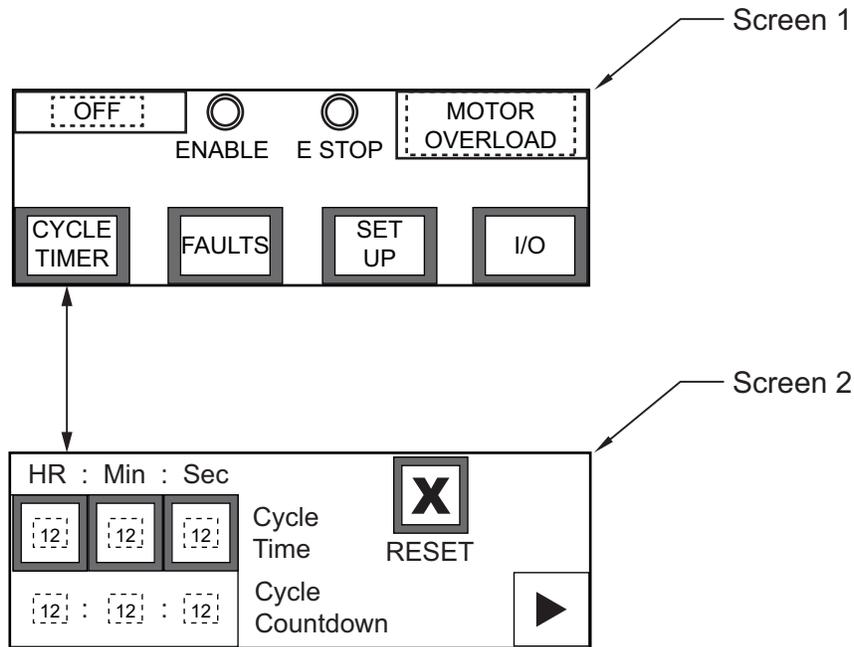
1. Turn AUTO-OFF-MAN switch (B) to the OFF position.
2. Determine desired time required between push cycles.
3. Press “Cycle Timer” on screen. Input the desired time.
4. Turn AUTO-OFF-MAN switch (B) to the AUTO position.
5. Verify timer settings are correct.

Operating Touchscreen

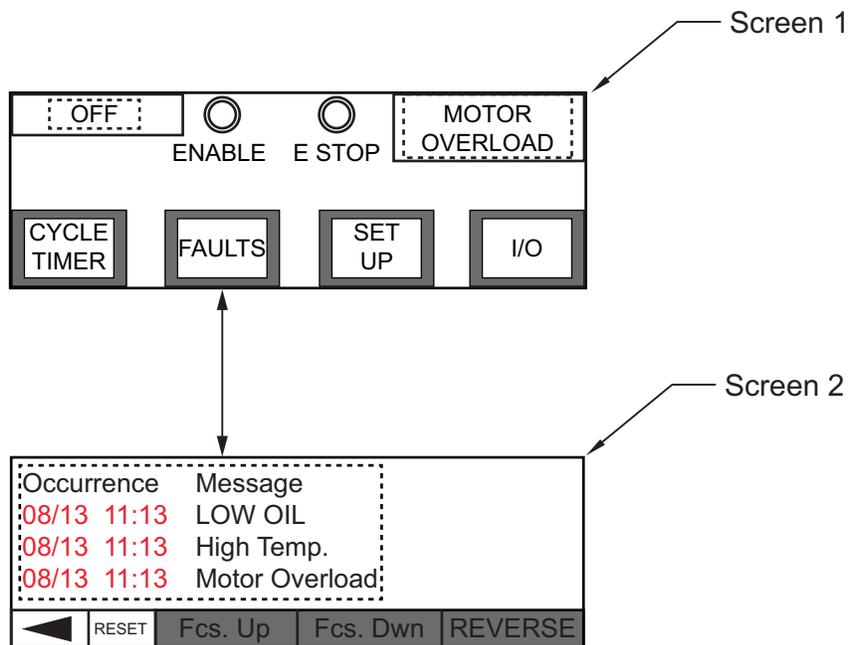


| | |
|---|--|
| 1 | Status of AUTO/OFF/MANUAL switch |
| 2 | Status of Enable input. Input must be enabled to run. |
| 3 | Status of E Stop input. E Stop must be enabled to run. |
| 4 | Status window showing Faults. If there is a fault “RESET” will appear to reset faults. |

Cycle Timer



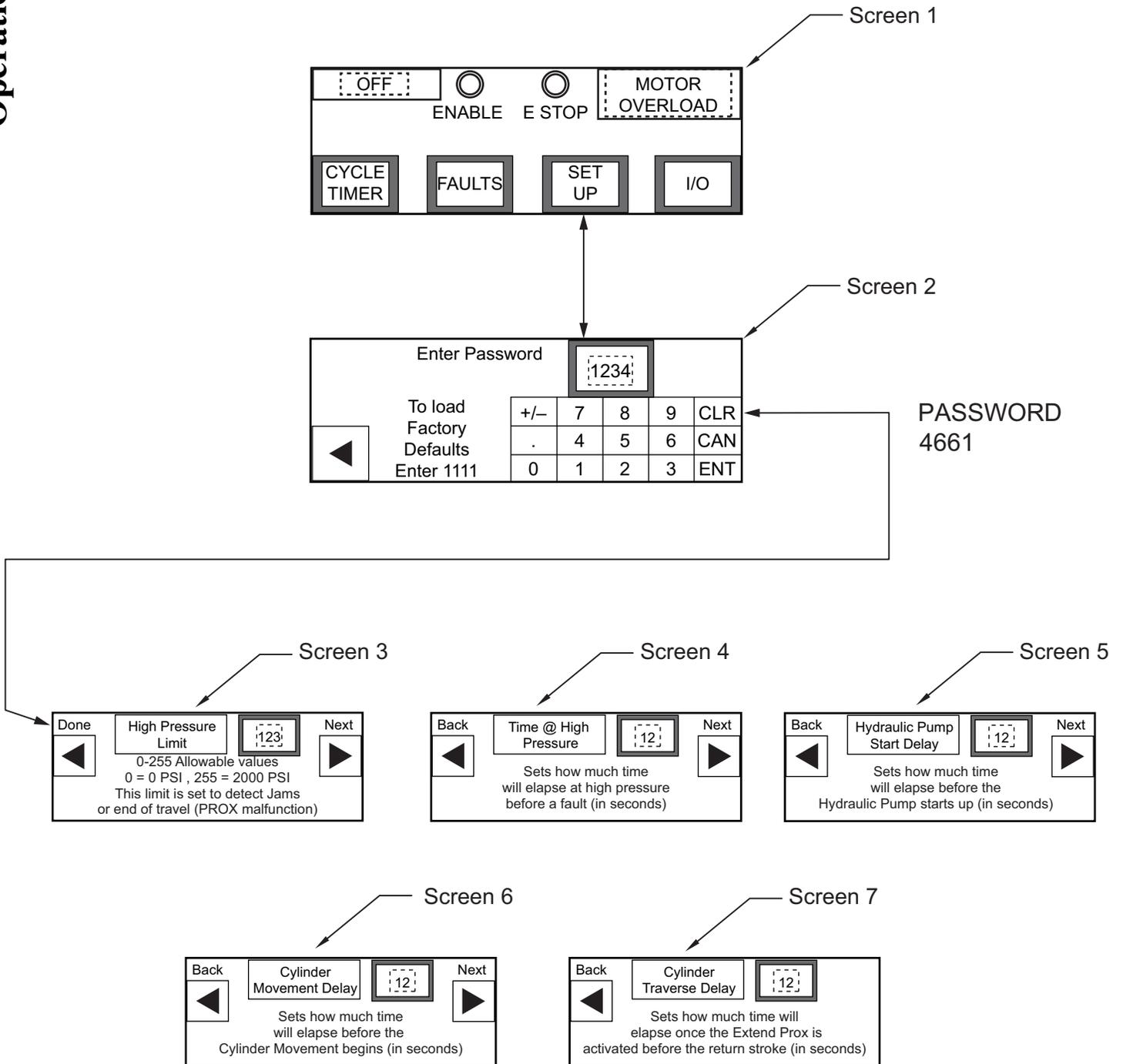
1. To change cycle time press “CYCLE TIMER.”
2. Input the desired time.
3. Press “RESET” to load the new time. If “RESET” is not pressed after changing the time values, the new time will load automatically on the next cycle.
4. Press forward arrow to return to main screen.



Faults

1. Press “FAULTS” to show all faults and when each fault occurred.
2. Press “REVERSE” to show the oldest fault.
3. Press “Fcs. Up” and “Fcs. Dwn” to scroll up and down in the fault log.
4. Press “RESET” to reset fault. If fault will not clear make sure fault condition is not still active.
5. Press back arrow to return to main screen.

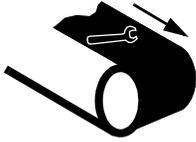
Operation



Set Up

1. Press “SET UP.”
2. Enter “1111” into keypad to load factory defaults or enter “4661” to gain access to the set-up screens.
3. Change values to desired settings.
4. Press back arrow to return to main screen.

After Installing Scavenger Conveyor



⚠ 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.

1. Turn on conveyor belt and scavenger conveyor for 1 hour.
2. Make sure scavenger conveyor is removing material efficiently.
3. Turn off scavenger conveyor and conveyor belt.



⚠ DANGER

Before installing, servicing, or adjusting the conveyor system, turn off and lock out/tag out 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. If necessary adjust timer setting, so scavenger conveyor removes material more efficiently.
5. Make sure all fasteners are tight. Tighten if necessary.
6. If wear, material buildup, or some other problem exists, see “Troubleshooting.”

Weekly Maintenance

NOTE

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



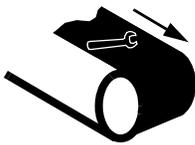
⚠ DANGER

Before installing, servicing, or adjusting the conveyor system, turn off and lock out/tag out 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. Make sure pivot ramps move freely.
2. Make sure scavenger conveyor is removing material efficiently. Adjust timer settings if necessary.
3. Make sure all fasteners are tight. Tighten if necessary.
4. Check hydraulic oil level. Add hydraulic oil if necessary.
5. Check hydraulic system for leaks. Repair if necessary.
6. Wipe all labels clean. If labels are not readable, contact Martin Engineering or a representative for replacements.
7. 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 installation area and conveyor belt before turning on energy source can cause serious injury to personnel and damage to belt.



8. 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.



9. Start conveyor belt and scavenger conveyor.

Troubleshooting



⚠ DANGER

Before installing, servicing, or adjusting the conveyor system, turn off and lock out/tag out all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

| Fault Code | Possible Causes | Corrective Action |
|----------------|--|--|
| Low Oil | Oil line ruptured and oil has drained. | Check lines and seals. Repair lines and refill oil reservoir. |
| | Not enough oil was put into the machine. | Fill oil reservoir. |
| Motor Overload | Pump is pumping against fixed pressure (dead heading). | Check for obstruction in the line or oil path. Clear obstruction in line. |
| | | Plow may be wedged. Clear obstruction in plow path. |
| High Temp | Oil is circulating through the machine too quickly under pressure. | Increase the time between cycles. |
| | An external influence is heating the oil. | Check environment and remove heat source. |
| High Pressure | Pump is pumping against fixed pressure (dead heading). | Check for obstruction in the line or oil path. Clear obstruction in line. |
| | | Plow may be wedged. Clear obstruction in plow path. |
| Low Pressure | Motor is running at too low of power. | Check electrical connections and motor rotation. |
| | Oil line ruptured and oil has drained. | Check lines and seals. Repair lines and refill oil reservoir. |
| | Not enough oil was put into the machine. | Fill oil reservoir. |

Troubleshooting

| Symptom | Corrective Action |
|--|---|
| Hydraulic pump will not turn on. | Check power source. Check hydraulic oil level. |
| Excessive vibration. | Make sure fasteners are tight. |
| Unusual wear or damage to blades. | Check for entrapped material and remove if necessary. |
| Cylinder does not fully retract. | Check for entrapped material. |
| Cylinder extends but does not retract. | Check proximity switches. |

NOTE

Conveyor equipment such as scavenger conveyors 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.

Part Numbers

This section provides product names and corresponding part numbers for Martin® Carryback Capture System, P/N CCS-XXXXXXX and related equipment. Please reference part numbers when ordering parts:

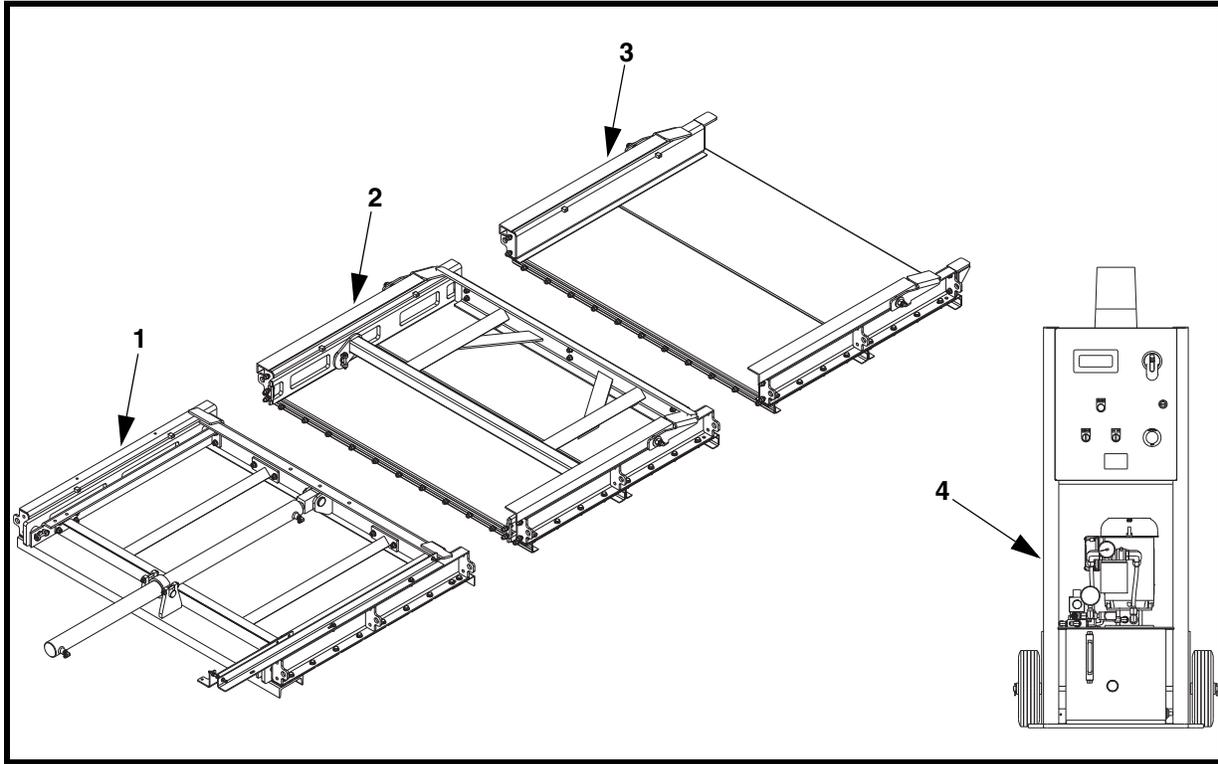


Figure 8. Martin® Carryback Capture System, P/N CCS-XXXXXXX*

| Item | Description | Part No. | Qty. |
|------|------------------|-----------|-------|
| 1 | Power Section | Figure 9 | 1 |
| 2 | Carrying Section | Figure 10 | Tbl I |
| 3 | End Section | Figure 11 | 1 |
| 4 | Power Unit | Figure 12 | 1 |

*The first XX indicates belt width. The next XX indicates length of carrying section in feet.
The last XXX indicates voltage for control panel.

Table I. Part Numbers and Quantities for Martin® Carryback Capture System

| Part No. | Item 2 Qty |
|-------------|------------|
| CCS-XX08XXX | 1 |
| CCS-XX12XXX | 2 |
| CCS-XX16XXX | 3 |
| CCS-XX20XXX | 4 |
| CCS-XX24XXX | 5 |

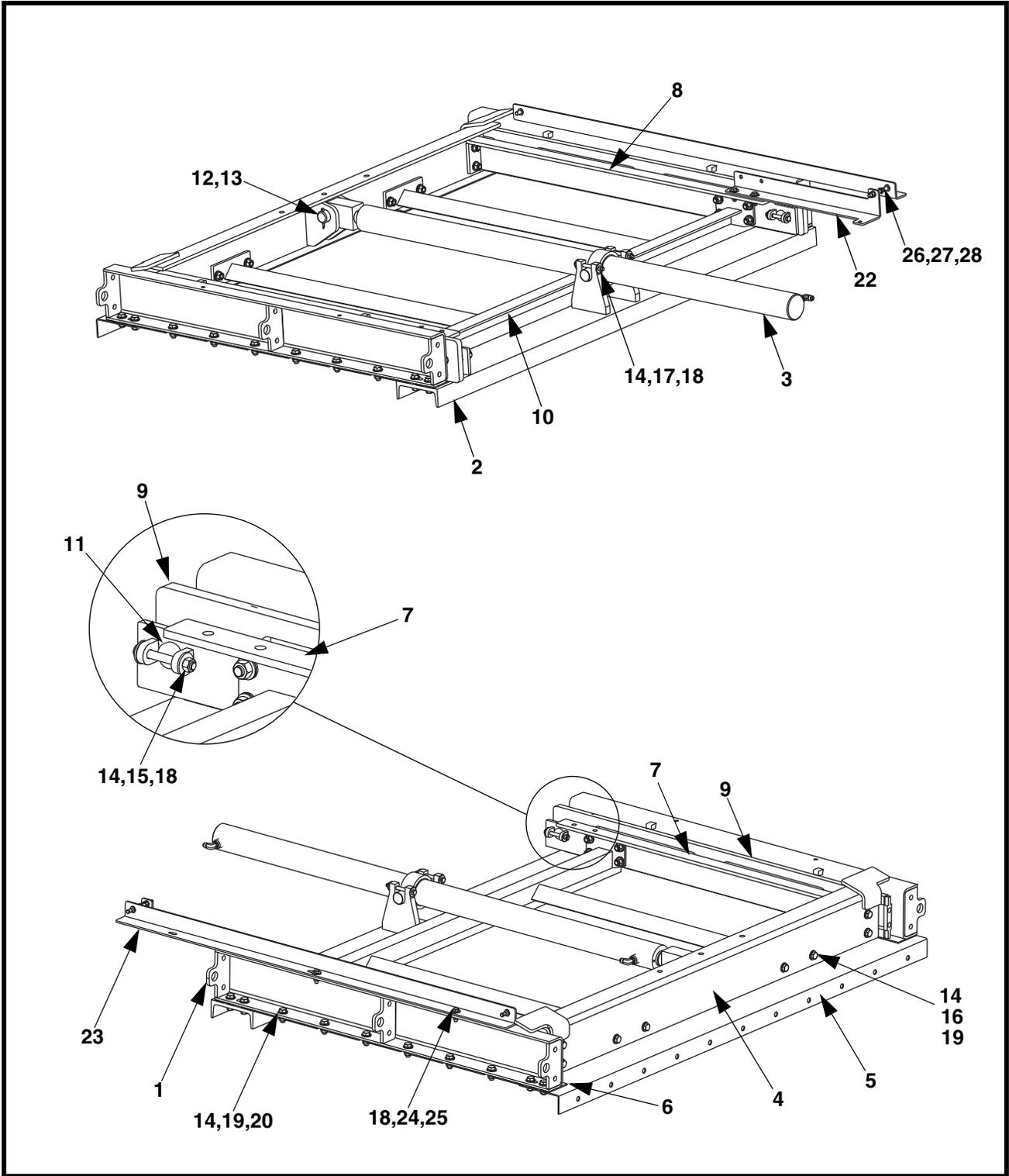


Figure 9. Martin® Carryback Capture System Power Section, P/N DR-001000-XX*

| Item | Description | Part No. | Qty. |
|---------|-----------------------------------|---------------|------|
| 1 | Support Frame Weldment | DR-001010 | 2 |
| 2 | Cylinder Pivot Weldment | DR-001020-XX* | 1 |
| 3 | Cylinder Assembly | DR-001130 | 1 |
| 4 | Blade Weldment | DR-001080-XX* | 1 |
| 5 | Pan Lip | DR-001050-XX* | 1 |
| 6 | Wear Plate | DR-001040 | 2 |
| 7 | Side Arm Left Blade Weldment | DR-001060L | 1 |
| 8 | Side Arm Right Blade Weldment | DR-001060R | 1 |
| 9 | Transfer Bar Weldment | DR-001030 | 2 |
| 10 | Blade Holder Weldment | DR-001070-XX* | 1 |
| 11 | Pin Clevis Dia. 1.00 x 2.00 ZP | DR-001100 | 2 |
| 12 | Pin Clevis Dia. 1.38 x 4.00 ZP | DR-001110 | 1 |
| 13 | Pin Cotter 1/4 x 2.00 | 37308 | 1 |
| 14 | Washer Flat 1/2 Narrow ZP | 31010 | 92 |
| 15 | Screw HHC 3/8-16NC x 3 ZP | 22176 | 2 |
| 16 | Screw HHC 1/2-13NC x 1-1/2 ZP | 11763 | 20 |
| 17 | Screw HHC 3/8-16NC x 3-3/4 ZP | 16098 | 2 |
| 18 | Nut Hex 3/8-16NC ZP | 11770 | 8 |
| 19 | Nut Hex 1/2-13NC Grade 5 ZP | 36739 | 36 |
| 20 | Screw HHC 1/2-13NC x 1-1/4 ZP | 13835 | 16 |
| 21 (NS) | Label Kit | 38620 | 1 |
| 22 | Sensor Angle Bracket | DR-001141 | 1 |
| 23 | Sensor Angle Bracket | DR-001142 | 1 |
| 24 | Screw HHC 3/8-16NC x 1-1/4 ZP | 12215 | 4 |
| 25 | Washer Flat 3/8 Wide ZP | 18007 | 8 |
| 26 | Screw HHC 3/8-16NC x 2 316 SS | 37763 | 1 |
| 27 | Washer Lock Helical Spring 3/8 ZP | 11978 | 2 |
| 28 | Nut Hex 3/8-16NC SS | 16054 | 2 |

Figure 9. Martin® Carryback Capture System Power Section, P/N DR-001000-XX*

*XX indicates belt width.

NS = Not Shown

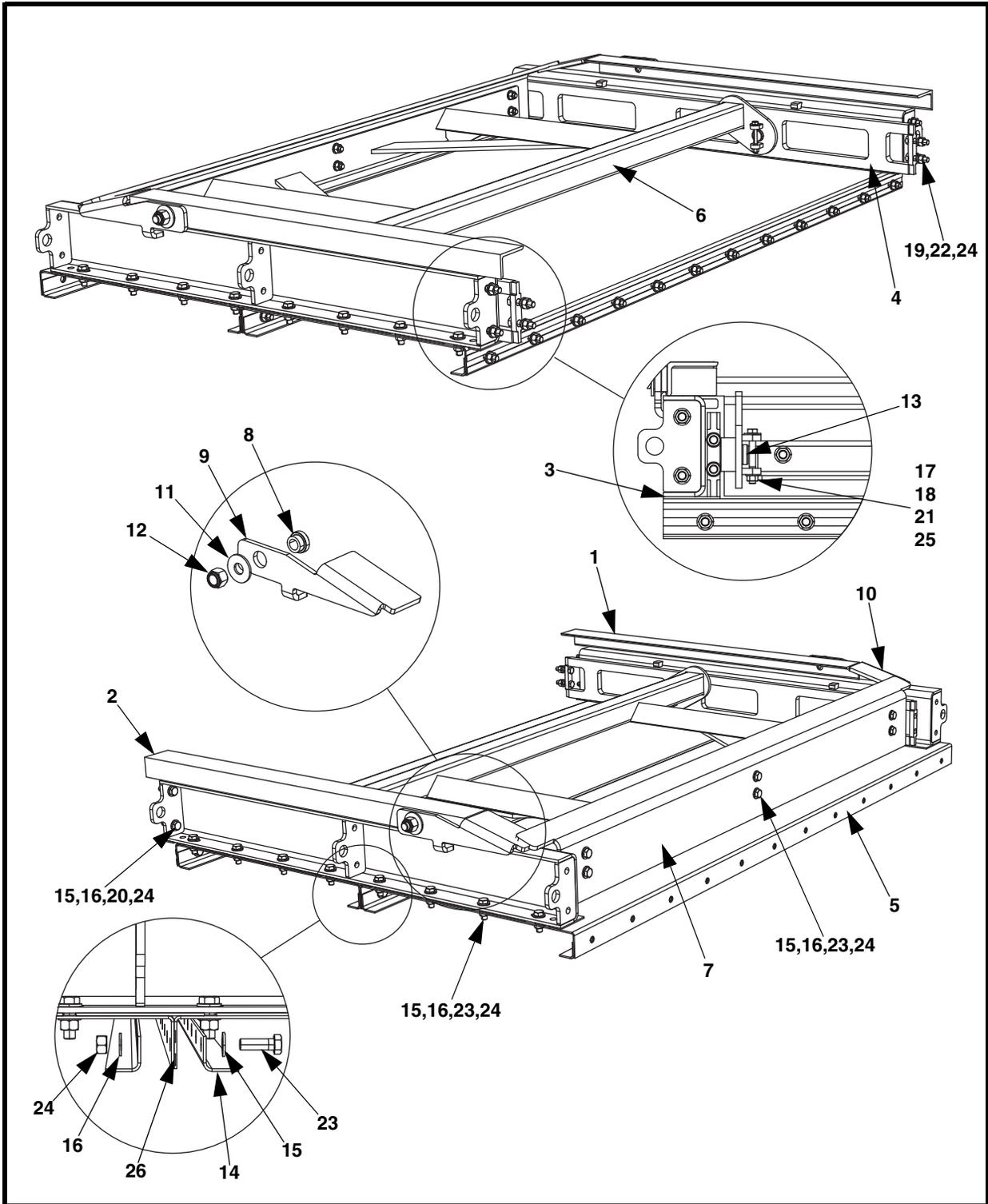


Figure 10. Martin® Carryback Capture System Carrying Section, P/N DR-002000-XX*

| Item | Description | Part No. | Qty. |
|---------|---------------------------------------|---------------|--------|
| 1 | Side Frame Left Weldment | DR-002010-L | 1 |
| 2 | Side Frame Right Weldment | DR-002010-R | 1 |
| 3 | Wear Plate | DR-001040 | 2 |
| 4 | Transfer Bar Weldment | DR-002030 | 2 |
| 5 | Pan | DR-002020-XX* | 2 |
| 6 | Blade Holder Weldment | DR-002050-XX* | 1 |
| 7 | Blade | DR-002040-XX* | 1 |
| 8 | Bushing | DR-002061 | 2 |
| 9 | Pivot Ramp Left | DR-002060-R | 1 |
| 10 | Pivot Ramp Right | DR-002060-L | 1 |
| 11 | Washer Flat 3/4 Wide ZP | 20164 | 2 |
| 12 | Nut Hex Elastic Lock 3/4-10NC ZP | 19132 | 2 |
| 13 | Pin Clevis Dia. 1.00 x 2.00 ZP | DR-001100 | 2 |
| 14 | Stiffener | DR-002021-XX* | 4 |
| 15 | Washer Flat 1/2 Narrow ZP | 31010 | Tbl II |
| 16 | Washer Compression 1/2 | 11750 | Tbl II |
| 17 | Washer Flat 3/8 Wide ZP | 18007 | 2 |
| 18 | Washer Compression 3/8 | 11747 | 2 |
| 19 | Washer Lock Helical Spring 1/2 ZP | 17329 | 4 |
| 20 | Screw HHC 1/2-13NC x 1-3/4 ZP | 23478 | 4 |
| 21 | Screw HHC 3/8-16NC x 3 ZP | 22176 | 2 |
| 22 | Screw HHC 1/2-13NC x 2 ZP | 14196 | 4 |
| 23 | Screw HHC 1/2-13NC x 1-1/2 ZP | 11763 | Tbl II |
| 24 | Nut Hex 1/2-13NC Grade 5 ZP | 36739 | Tbl II |
| 25 | Nut Hex 3/8-16NC ZP | 11770 | 2 |
| 26 | Rubber Strip Gasket | 100876 | Tbl II |
| 27 (NS) | Label Kit | 38620 | 1 |
| 28 (NS) | Bearing Flanged Sleeve SAE 841 Bronze | DR-002062 | 2 |

Figure 10. Martin® Carryback Capture System Carrying Section, P/N DR-002000-XX*

*XX indicates belt width. NS = Not Shown

Table II. Part Numbers and Quantities for Martin® Carryback Capture System Carrying Section

| Assy. Part No. | Items 15 & 16 Qty | Item 23 Qty | Item 24 Qty | Item 26 Qty (ft) | Weight (lbs) |
|----------------|-------------------|-------------|-------------|------------------|--------------|
| DR-002000-24 | 36 | 32 | 40 | 10.33 | 341 |
| DR-002000-30 | 38 | 34 | 42 | 12.33 | 366 |
| DR-002000-36 | 40 | 36 | 44 | 14.33 | 372 |
| DR-002000-42 | 42 | 38 | 46 | 16.33 | 393 |
| DR-002000-48 | 44 | 40 | 48 | 18.33 | 413 |
| DR-002000-54 | 46 | 42 | 50 | 20.33 | 434 |
| DR-002000-60 | 48 | 44 | 52 | 22.33 | 455 |
| DR-002000-66 | 50 | 46 | 54 | 24.33 | 476 |
| DR-002000-72 | 52 | 48 | 56 | 26.33 | 496 |

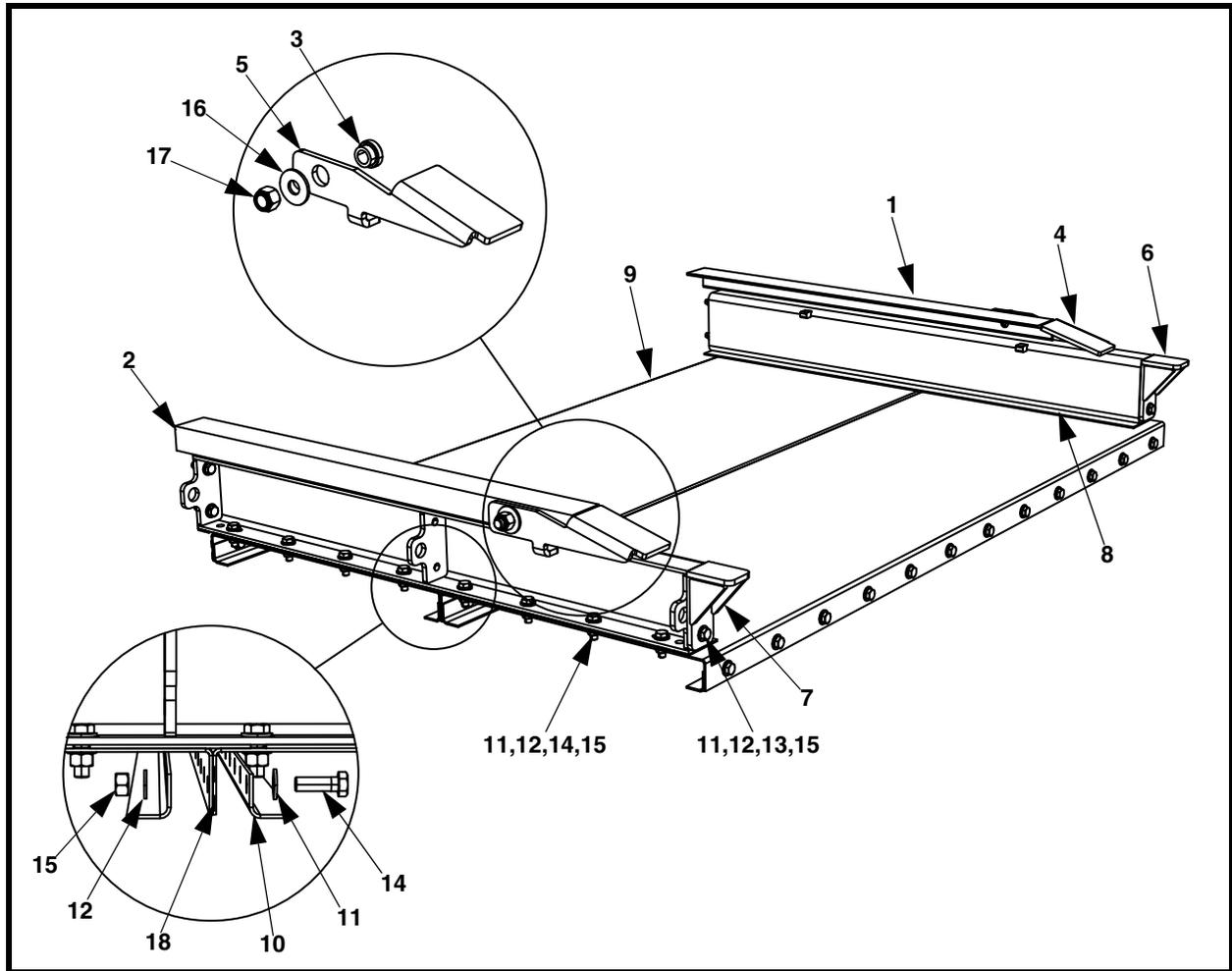


Figure 11. Martin® Carryback Capture System Discharge Section, P/N DR-002500-XX*

| Item | Description | Part No. | Qty. |
|---------|---------------------------------------|---------------|---------|
| 1 | Side Frame Left Weldment | DR-002010-L | 1 |
| 2 | Side Frame Right Weldment | DR-002010-R | 1 |
| 3 | Bushing | DR-002061 | 2 |
| 4 | Pivot Ramp Left | DR-002060-L | 1 |
| 5 | Pivot Ramp Right | DR-002060-R | 1 |
| 6 | End Run Out Weldment | DR-002070-L | 1 |
| 7 | End Run Out Weldment | DR-002070-R | 1 |
| 8 | Wear Plate | DR-001040 | 2 |
| 9 | Pan | DR-002020-XX* | 2 |
| 10 | Stiffener | DR-002021-XX* | 4 |
| 11 | Washer Flat 1/2 Narrow ZP | 31010 | Tbl III |
| 12 | Washer Compression 1/2 | 11750 | Tbl III |
| 13 | Screw HHC 1/2-13NC x 1-3/4 ZP | 23478 | 4 |
| 14 | Screw HHC 1/2-13NC x 1-1/2 ZP | 11763 | Tbl III |
| 15 | Nut Hex 1/2-13NC Grade 5 ZP | 36739 | Tbl III |
| 16 | Washer Flat 3/4 Wide ZP | 20164 | 2 |
| 17 | Nut Hex Elastic Lock 3/4-10NC ZP | 19132 | 2 |
| 18 | Rubber Strip Gasket | 100876 | 4 |
| 19 (NS) | Label Kit | 38620 | 1 |
| 20 (NS) | Bearing Flanged Sleeve SAE 841 Bronze | DR-002062 | 2 |

Figure 11. Martin® Carryback Capture System Discharge Section, P/N DR-002500-XX*

*XX indicates belt width.

NS = Not Shown

Table III. Part Numbers and Quantities for Martin® Carryback Capture System Discharge Section

| Assy. Part No. | Item 11, 12, 14 Qty | Item 15 Qty | Item 18 Qty (ft) | Weight (lbs) |
|----------------|---------------------|-------------|------------------|--------------|
| DR-002500-24 | 39 | 35 | 10.33 | 210 |
| DR-002500-30 | 42 | 38 | 12.33 | 224 |
| DR-002500-36 | 45 | 41 | 14.33 | 236 |
| DR-002500-42 | 48 | 44 | 16.33 | 250 |
| DR-002500-48 | 51 | 47 | 18.33 | 264 |
| DR-002500-54 | 54 | 50 | 20.33 | 278 |
| DR-002500-60 | 57 | 53 | 22.33 | 292 |
| DR-002500-66 | 60 | 56 | 24.33 | 306 |
| DR-002500-72 | 63 | 59 | 26.33 | 321 |

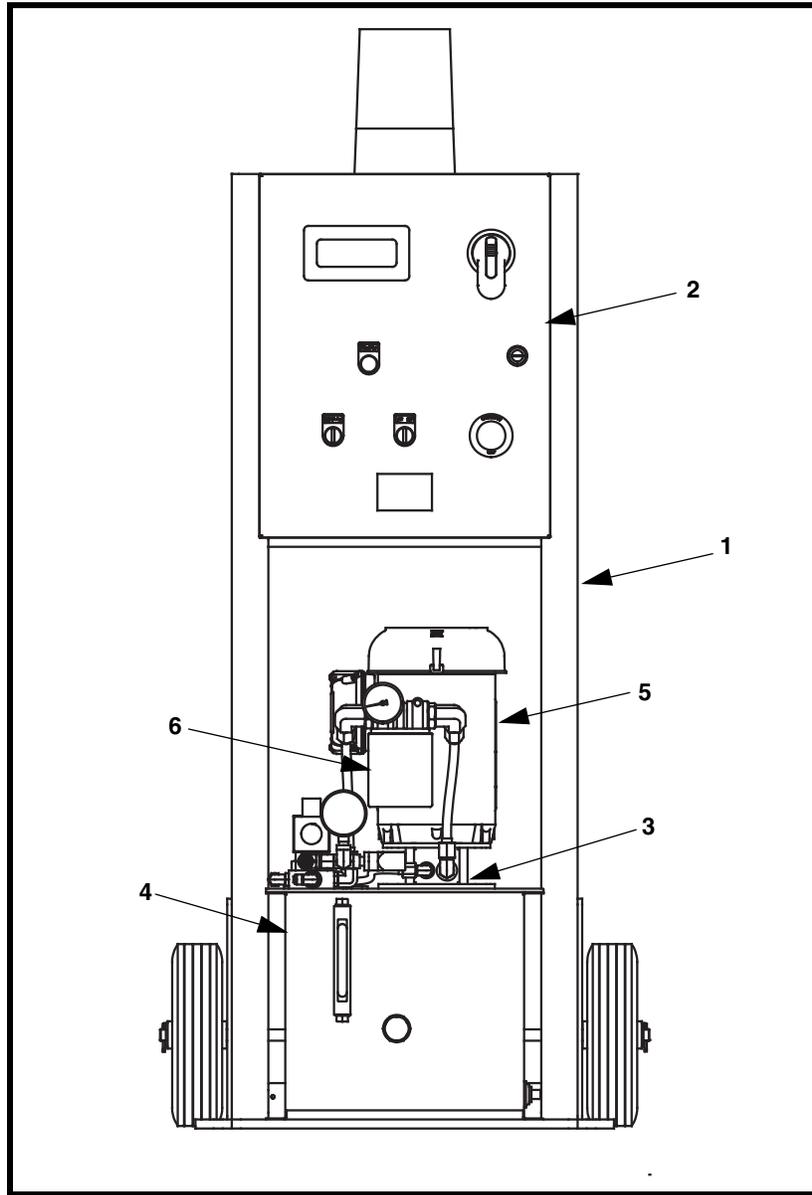


Figure 12. Martin® Carryback Capture System Power Unit, P/N DR-003000-XXX-C*

| Item | Description | Part No. | Qty. |
|------|-------------------------------|-------------------|------|
| 1 | Cart | 39176 | 1 |
| 2 | Control Panel | DR-003154-01 | 1 |
| 3 | Pump | DR-003154-11 | 1 |
| 4 | Oil Reservoir | DR-003154-12 | 1 |
| 5 | Motor | DR-003154-XXX-24* | 1 |
| 6 | Hydraulic Oil Filter | DR-003154-31 | 1 |
| 7 | Hydraulic Oil 5 Gallon Bucket | DR-003301 | 2 |

*XXX indicates voltage (460V or 575V).

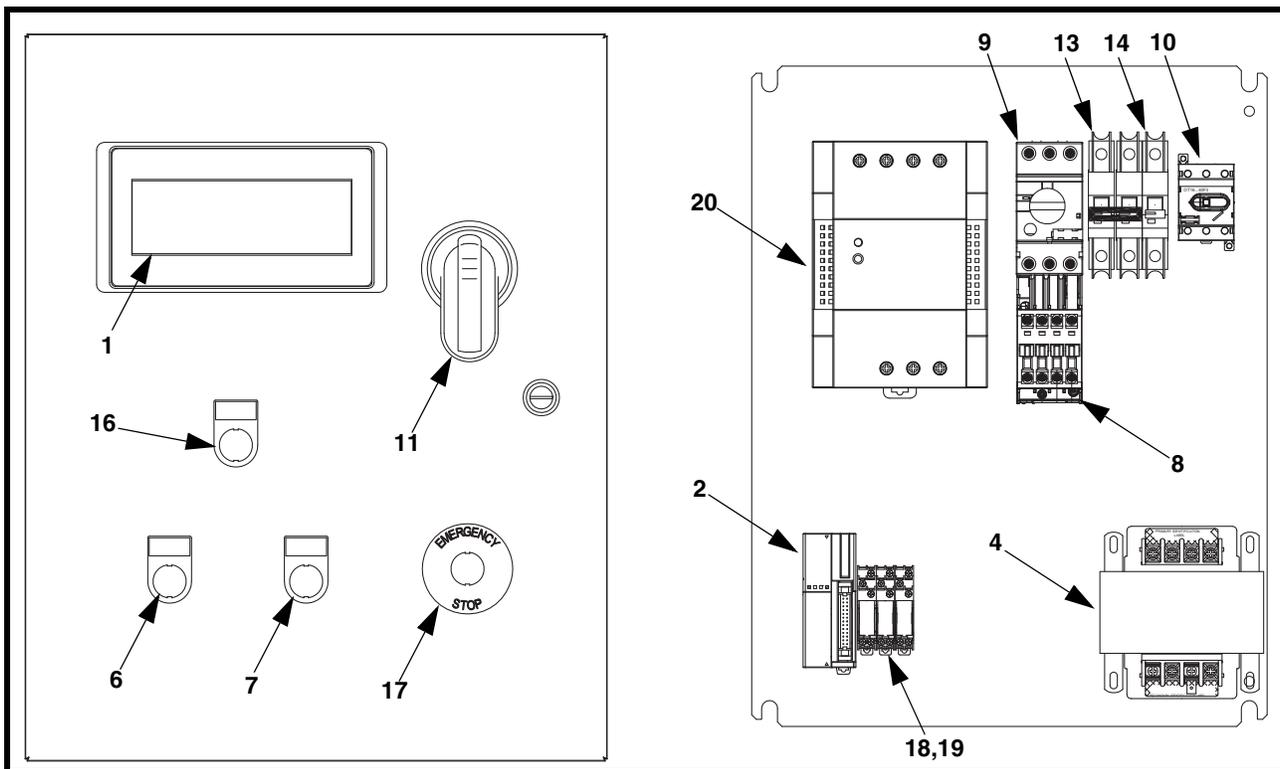


Figure 13. Martin® Carryback Capture System Control Panel, P/N DR-003154-01

| Item | Description | Part No. |
|---------|--------------------------------|----------------|
| 1 | Screen | DR-003154-CP01 |
| 2 | PLC | DR-003154-CP02 |
| 3 (NS) | Cable | DR-003154-CP03 |
| 4 | Transformer | DR-003154-CP04 |
| 5 (NS) | Label | DR-003154-CP05 |
| 6 | Selector Switch | DR-003154-CP06 |
| 7 | Selector Switch | DR-003154-CP07 |
| 8 | 3-Pole Contactor | DR-003154-CP08 |
| 9 | Manual Motor Starter | DR-003154-CP09 |
| 10 | Disconnect Switch | DR-003154-CP10 |
| 11 | Disconnect Switch Handle | DR-003154-CP11 |
| 12 (NS) | Disconnect Switch Shaft | DR-003154-CP12 |
| 13 | Circuit Breaker | DR-003154-CP13 |
| 14 | Circuit Breaker | DR-003154-CP14 |
| 15 (NS) | Proximity Switch | DR-003154-CP15 |
| 16 | Pilot Light | DR-003154-CP16 |
| 17 | Emergency Stop | DR-003154-CP17 |
| 18 | Relay | DR-003154-CP18 |
| 19 | Relay Socket | DR-003154-CP19 |
| 20 | Power Supply | DR-003154-CP20 |
| 21 (NS) | Solenoid Valve Connector | DR-003154-CP21 |
| 22 (NS) | Proximity Switch Cable | DR-003154-CP22 |
| 23 (NS) | Proximity Switch "Y" Connector | DR-003154-CP23 |

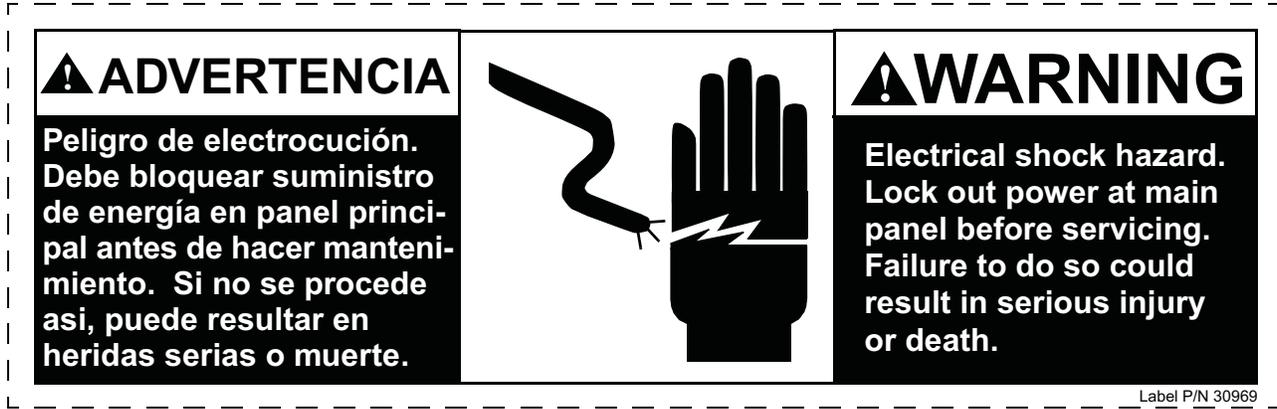


Figure 14. Electrical Shock Warning Label, P/N 30969

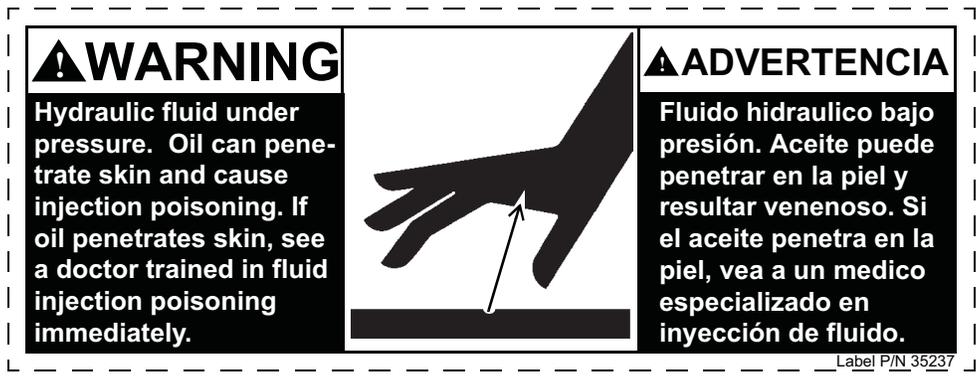


Figure 15. Hydraulic Fluid Warning Label, P/N 35237

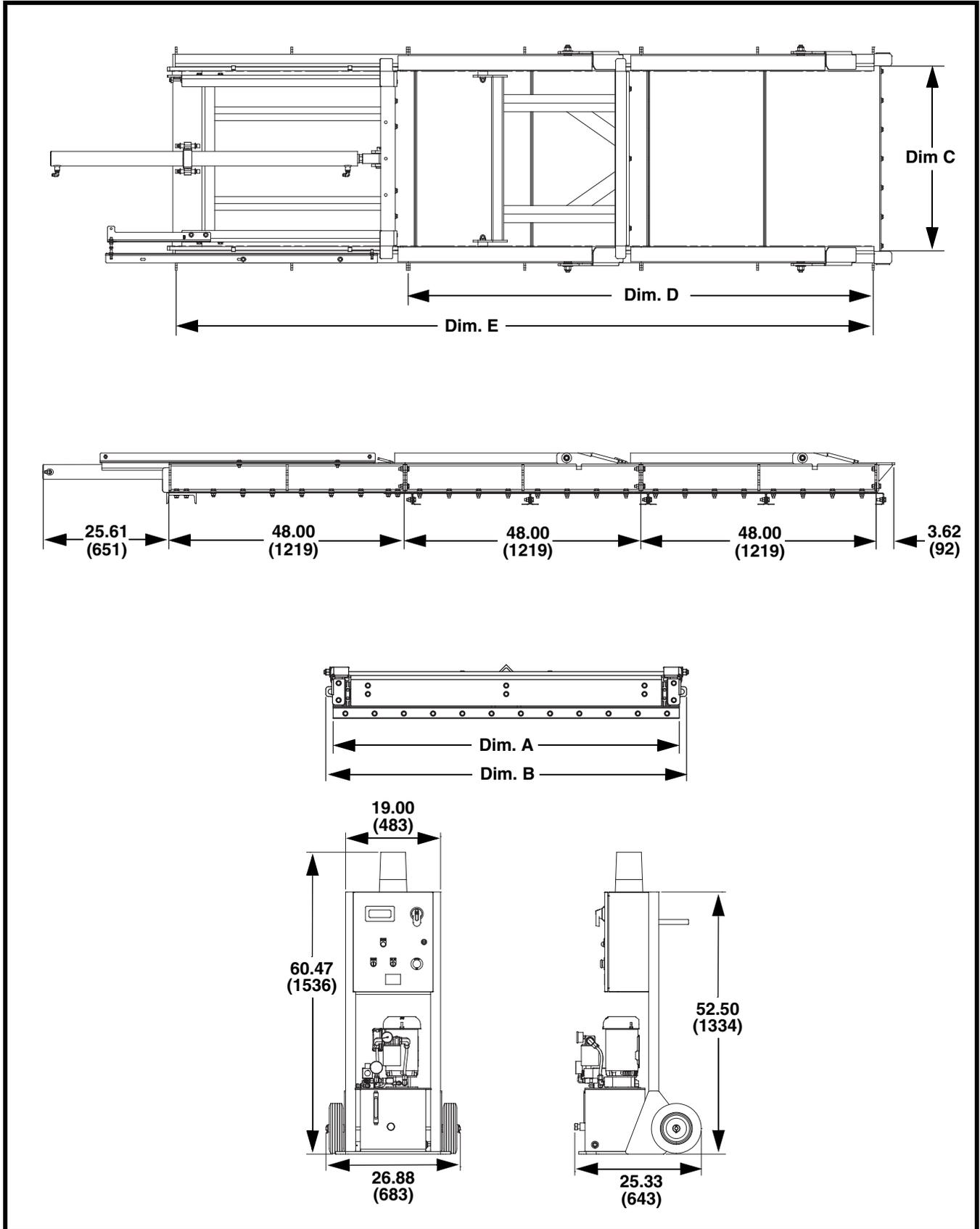


Figure 16. Pinch Point Warning Label, P/N 30528

Appendix

Martin® Carryback Capture System Dimensions and Specifications

Appendix



Martin® Carryback Capture System Dimensions

Table I. Martin® Carryback Capture System Dimensions

| Part No. | Dim. A in. (mm) | Dim. B in. (mm) | Dim C. in. (mm) |
|-----------------|---------------------------|---------------------------|---------------------------|
| CCS-24XXXXX | 31 (787) | 34 (864) | 26 (660) |
| CCS-30XXXXX | 37 (940) | 40 (1016) | 32 (813) |
| CCS-36XXXXX | 43 (1092) | 46 (1168) | 38 (965) |
| CCS-42XXXXX | 49 (1245) | 52 (1321) | 44 (1118) |
| CCS-48XXXXX | 55 (1397) | 58 (1473) | 50 (1270) |
| CCS-54XXXXX | 61 (1549) | 64 (1626) | 56 (1422) |
| CCS-60XXXXX | 67 (1702) | 70 (1778) | 62 (1575) |
| CCS-66XXXXX | 73 (1854) | 76 (1930) | 68 (1727) |
| CCS-72XXXXX | 79 (2007) | 82 (2083) | 74 (1880) |

| Part No. | Dim. D in. (mm) | Dim. E in. (mm) |
|-----------------|---------------------------|---------------------------|
| CCS-XX08XXX | 96 (2438) | 144 (3658) |
| CCS-XX12XXX | 144 (3658) | 192 (4877) |
| CCS-XX16XXX | 192 (4877) | 240 (6096) |
| CCS-XX20XXX | 240 (6096) | 288 (7315) |
| CCS-XX24XXX | 288 (7315) | 336 (8534) |

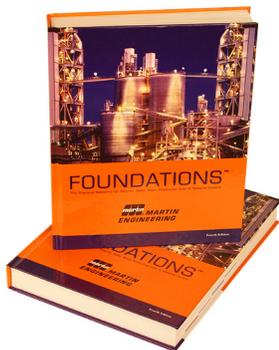
Table II. Martin® Carryback Capture System Weights*

| Part No. | CCS-XX08XXX lbs | CCS-XX12XXX lbs | CCS-XX16XXX lbs | CCS-XX20XXX lbs | CCS-XX24XXX lbs |
|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| CCS-24XXXXX | 1030 | 1388 | 1746 | 2104 | 2462 |
| CCS-30XXXXX | 1086 | 1470 | 1854 | 2238 | 2622 |
| CCS-36XXXXX | 1117 | 1505 | 1893 | 2281 | 2669 |
| CCS-42XXXXX | 1168 | 1577 | 1986 | 2395 | 2804 |
| CCS-48XXXXX | 1219 | 1649 | 2079 | 2509 | 2939 |
| CCS-54XXXXX | 1268 | 1718 | 2168 | 2618 | 3068 |
| CCS-60XXXXX | 1319 | 1790 | 2261 | 2732 | 3203 |
| CCS-66XXXXX | 1370 | 1862 | 2354 | 2846 | 3338 |
| CCS-72XXXXX | 1421 | 1934 | 2447 | 2960 | 3473 |

*Control console weight not included.

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