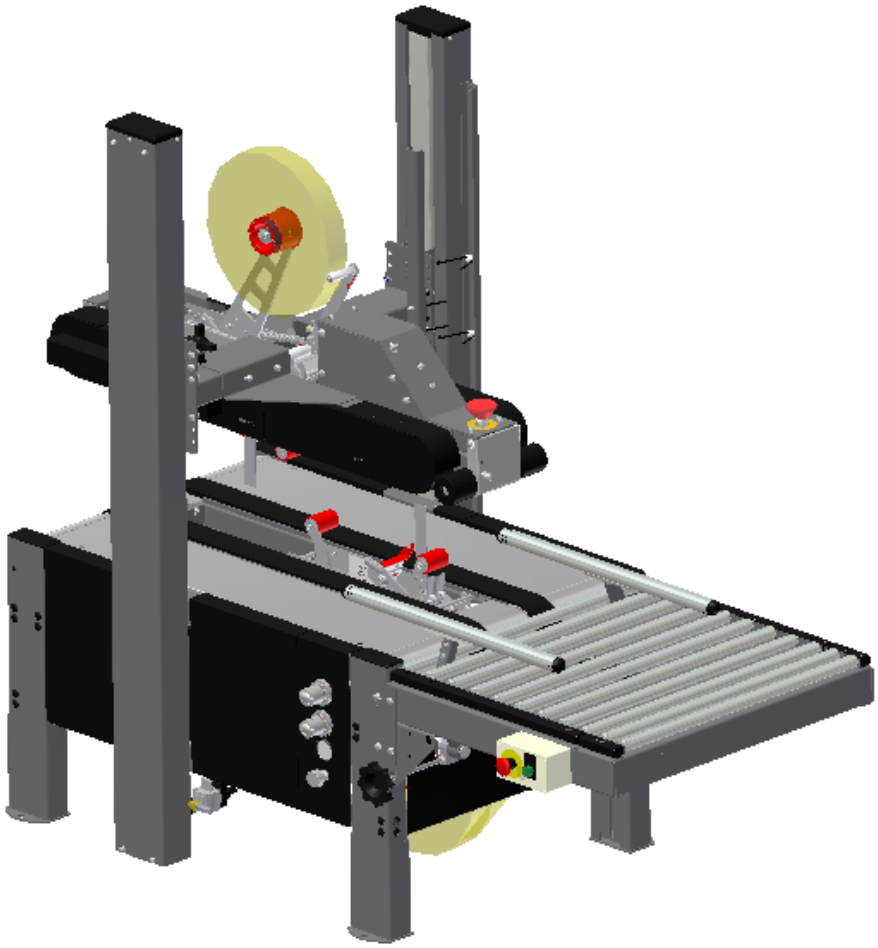
LOVESHAW
an ITW Company

Little David™ Case Sealer

LDXRTB 2.0 Series Random Top and Bottom Drive Semi Automatic Case Sealer



Version: 01C

Operator's Manual

LITTLE DAVID™ CASE SEALER

LDXRTB 2.0 Operation

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Thursday, April 07, 2011

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Chapter

1

Introduction

Thank you for purchasing the Little David™ case sealer, the LDXRTB 2.0. The LDXRTB 2.0 is semi-automatic top and bottom drive case sealer. The LDXRTB 2.0 is a robust built 24/7 case sealer constructed of quality materials, linear bearing, pneumatic and electrical components.. All employees who will be required to operate and maintain the case sealer **must** read this manual to ensure safe operation as well as proper set-up and maintenance throughout the life of the machine . After reading this manual, you will know how to perform the following functions,

- How to operate the machine safely.
- How to set the conveyor height of the machine
- How to set the head height limiter.
- How to set the machine to operate in uniform mode.
- How to adjust the head balance regulator.
- How to adjust the side rail trigger sensor
- Troubleshooting and replacing of worn or defective parts.

Throughout this manual there are several illustrations designed to help you perform the variety of tasks described.

Chapter

2

Operating Safety

Observe the warnings and cautions below when using the Little David LDXRTB case sealer. Within this manual on page 4, all safety labels are depicted with location and part number. If a safety, label is missing or not legible it must be replaced immediately. Failure to follow safety labels can lead to injury or damage to the machine.

Instruction: Requirement to System Operation

Instruction: **An electrical receptacle must be located near the machine. The line cord connection to the receptacle is the disconnect means for the machine. The receptacle must be located in an area that is easily accessible to all personnel.**

Warning: Potential Bodily Injury

Warning: Always disconnect all sources of energy to the machine before performing maintenance. Sources of energy include electrical and pneumatic. Refer to your company's lock out tag out procedures.

Warning: Never bypass or remove safety guards from the machine or tape cartridge.

Warning: Never override safety devices such as Emergency Stop switches.

Warning: Never adjust the machine or tape cartridges when the machine is operating.

Warning: Never place hands or body inside confines of the machine unless top head assembly is locked in place and all power sources are locked out.

Warning: Never wear jewelry, loose clothing, such as ties, scarves etc and long hair must be pulled back when operating this machine.

Warning: Never pull a jammed box out of the machine while it is in operation. Stop machine and raise head with bypass switch.

Warning: When feeding a semi automatic case sealer always hold the top flaps down a rear of box, to avoid accidental entrapment in the machine

This manual contains operator information for Little David Application Equipment. It is directed toward the person who operates and maintains the machine. Read through the manual completely before operating the machine. Thereafter, refer to it as necessary.

Take special note of all warnings, cautions, and maintenance instructions. Like any other piece of equipment, the Little David Case Sealer functions best when maintained and used correctly.

Caution: Potential Machine Damage:

Caution: **Never push or drag machine across the floor with the top head assembly fully raised. Makes sure it is completely lowered.**

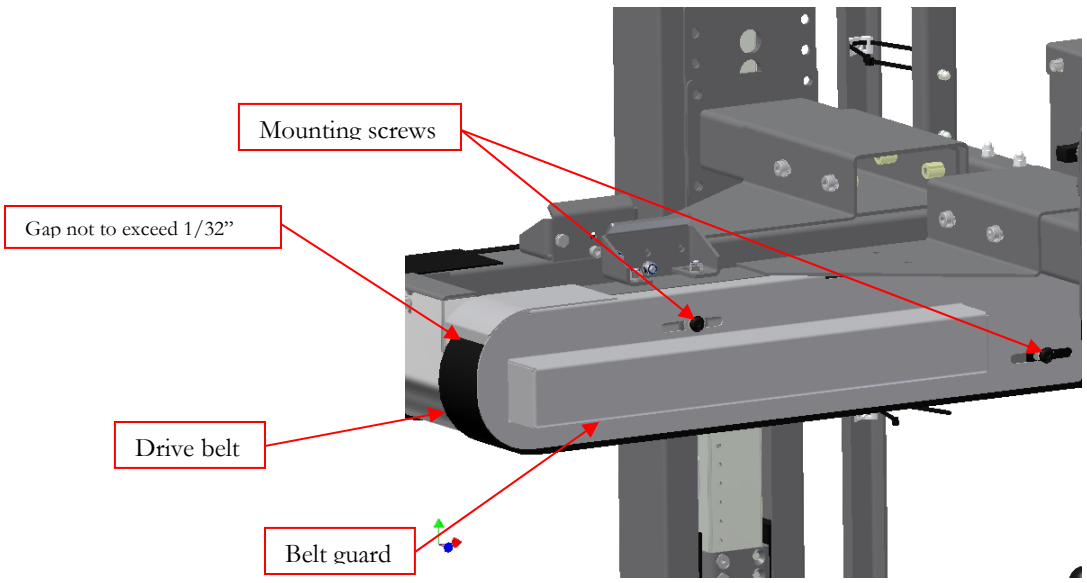
Caution: **Never pull the machine by its pack table or side rails.**

Caution: **Provide and use proper electrical power.**

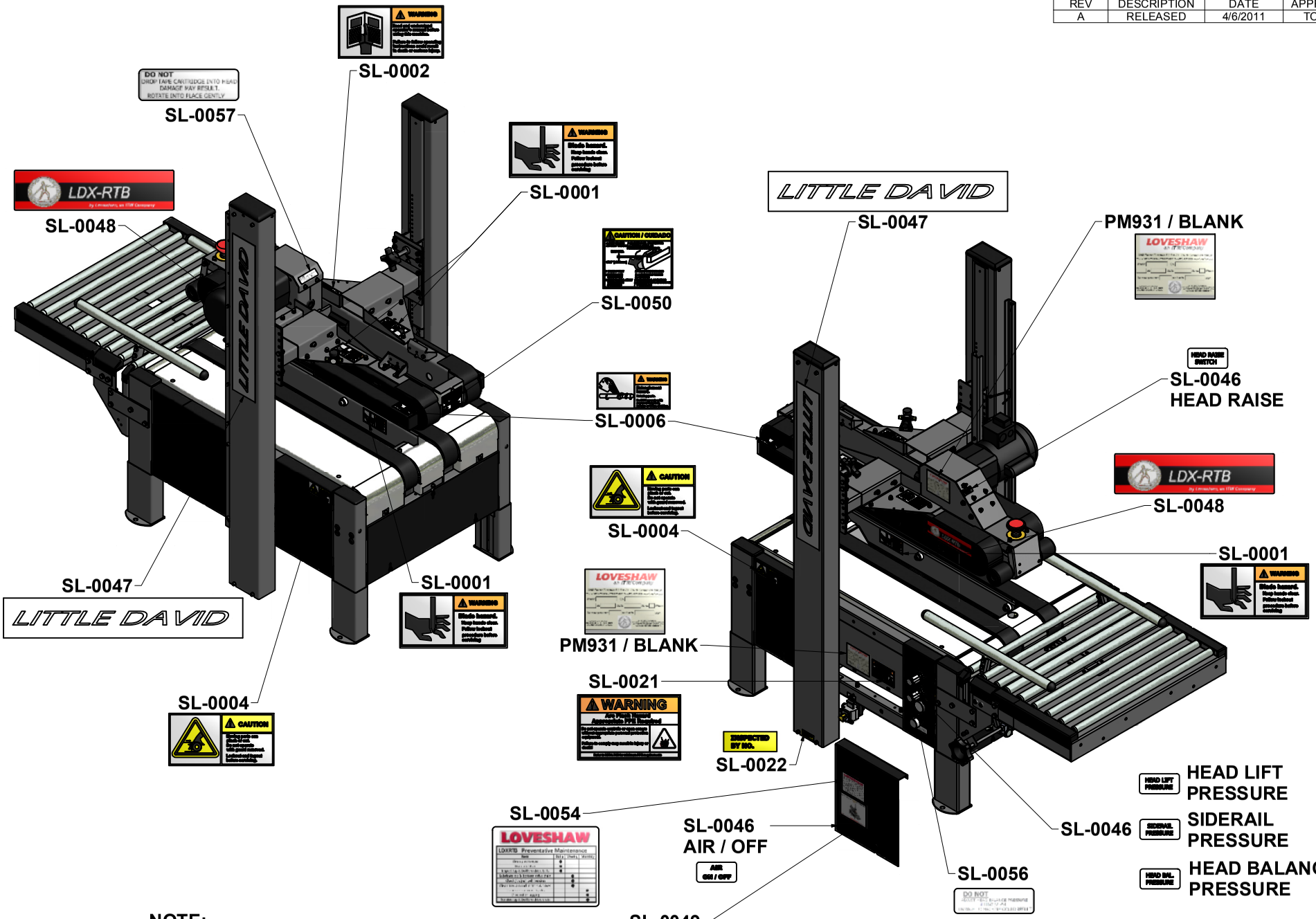
Caution: **Do not operate, maintain, or otherwise use this machine, except as described in this manual.**

Special instruction:

The top drive assembly incorporates adjustable belt guards. The guards are made adjustable to maintain 1/32" gap between the top of the belt and the guard itself. This eliminates a pinch point between the guard and the belt. The guards are located at the rear of the machine where the belt wraps around the drive pulleys. The guards must be adjusted inward as the belts wear. It is **mandatory** the gap be adjusted to **no** more than 1/32" clearance between the top of the belt and the guard itself. The guard is simply adjusted by loosening two 6mm panel head machine screws and sliding the guard inward to maintain the 1/32" gap. Failure to adjust the guards may cause injury.



REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	4/6/2011	TONYS



NOTE:

All machine labels should be in place and readable before and durring operation of machine.

MAT'L	PART #	CAD FILE	
NOTED	STD	PLOT DATE 4/6/2011	
ST. ST.	N/A	DRAWN DATE 4/6/2011	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:
INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°
METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm
MACH. FINISH 125
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE: LDXRTB 2.0 Machine Labels

DWG NO	LDXRTB MAIN ASSY 2.0 W with SAFETY LABELS	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

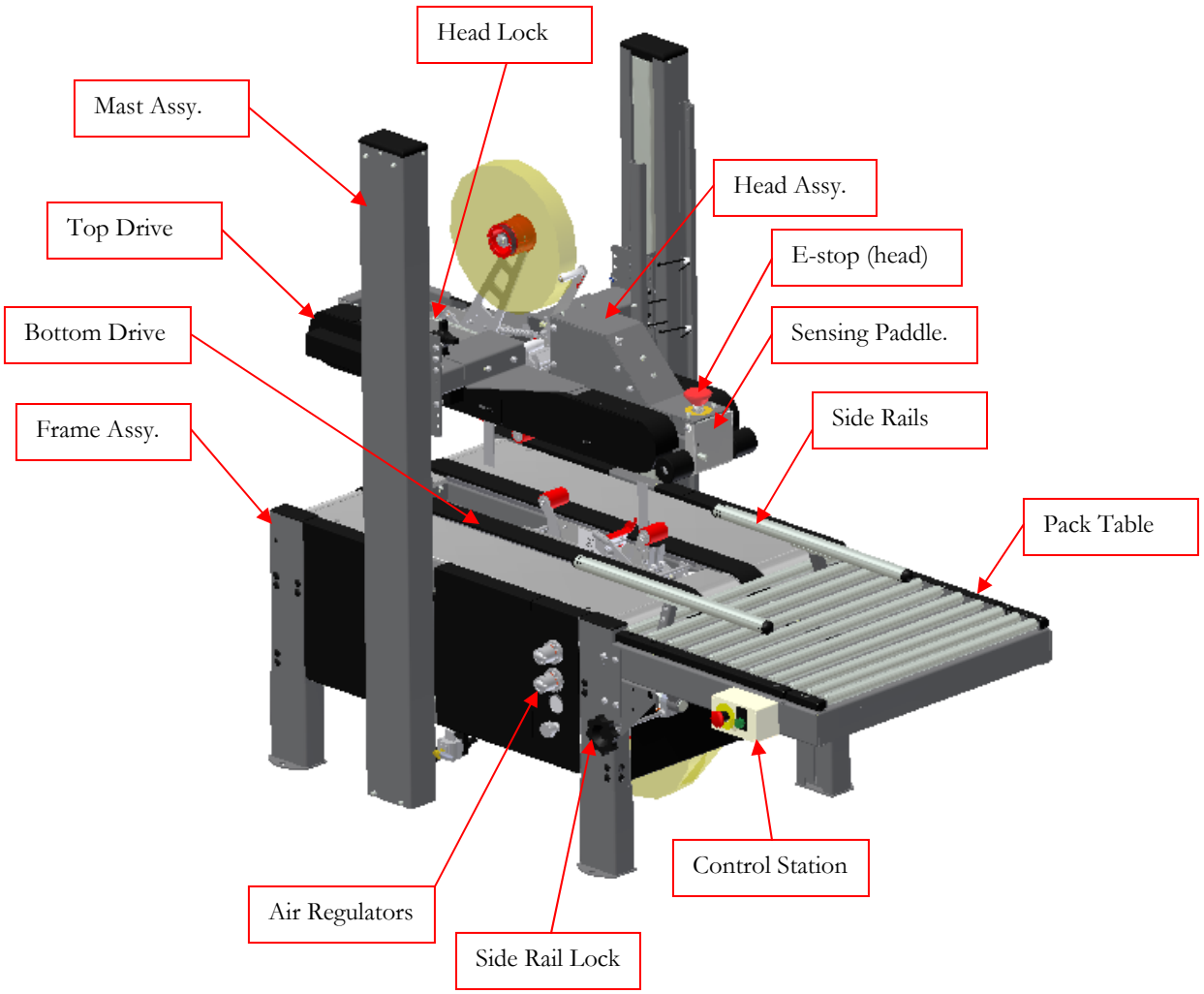
Chapter

3

Case Sealer Sections

Overview

This manual covers several parts of the machine. The following diagram identifies the key sections of the machine.



Machine Specifications

Machine dimensions:

- **Height: 59.875" @ 22" conveyor height**
- **Length including pack table:**
  - **46.25" overall - (base machine)**
  - **50.25" overall - (w/ .ITA/LDXRTB/4)**
  - **55.50" overall - (w/ .ITA/LDXRTB/9)**
  - **60.25" overall - (w/ .ITA/LDXRTB/14)**
  - **64.25" overall – (w/ .ITA/LDXRTB/18)**
- **Width: 33.5625"**
- **Conveyor height: 22" to 27.75" – Standard**

Electrical Requirements:

- **Standard Voltage: 120/1/60 with 15 amp dedicated service.**
- **Optional voltages are available consult factory.**

Operating speed:

- **Standard belt speed: 115 ft/min**
- **Optional high belt speed: 155 ft/min**

Air Requirement:

- **10 scfm @ 95 psi – maximum throughput based on maximum box range.**

Machine box capacity:

- **Length: - 6" to infinite**
- **Width: - 5 ½" to 26"**
- **Height: 3 ½" to 24" - Low box option of 2 ½" tall , tape tab length will be reduced by ½" .**

Chapter

4

Installation

Always check for any signs that the machine may have been damaged before fully removing it from the shipping skid. If machine arrives damaged contact Loveshaw immediately to help in filing a claim with shipping company.

Section 1: Placing the Machine

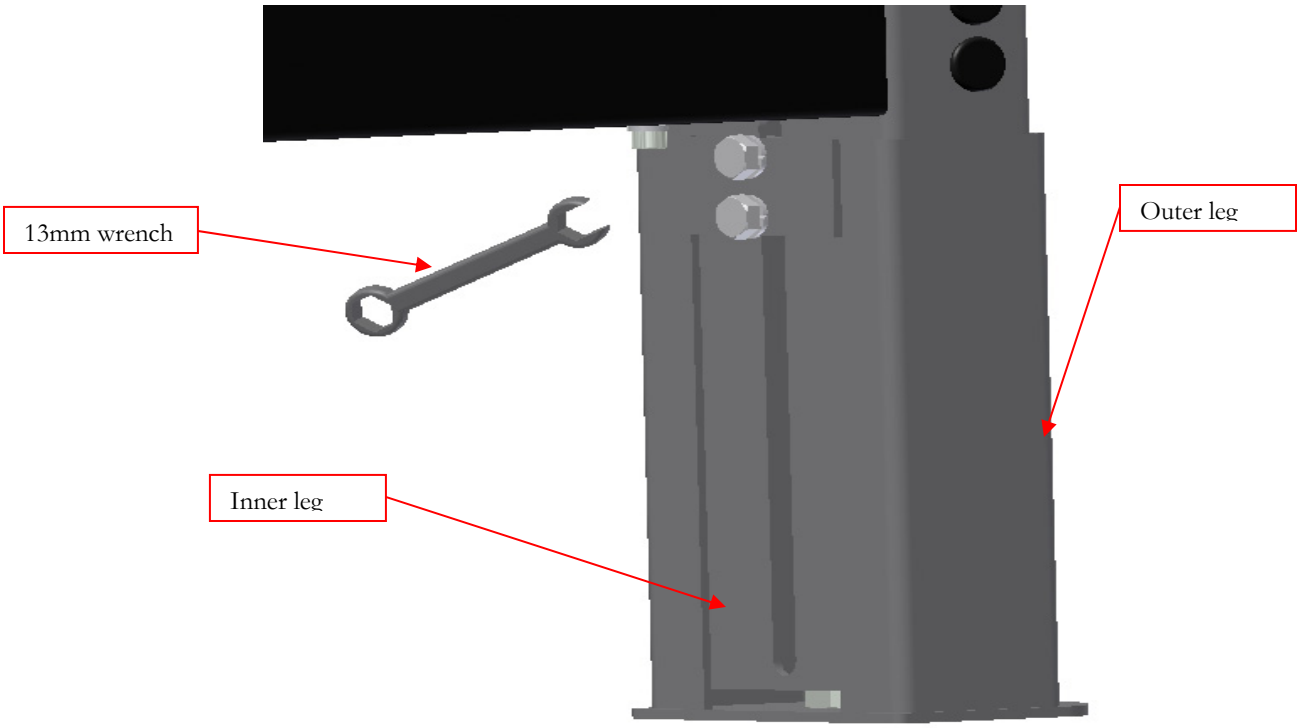
The case sealer is fully assembled and ready for operation.

Step One: Carefully remove the machine from the shipping skid. Remove all fasteners and brackets holding the machine to the skid. Remove head assembly shipping brackets.

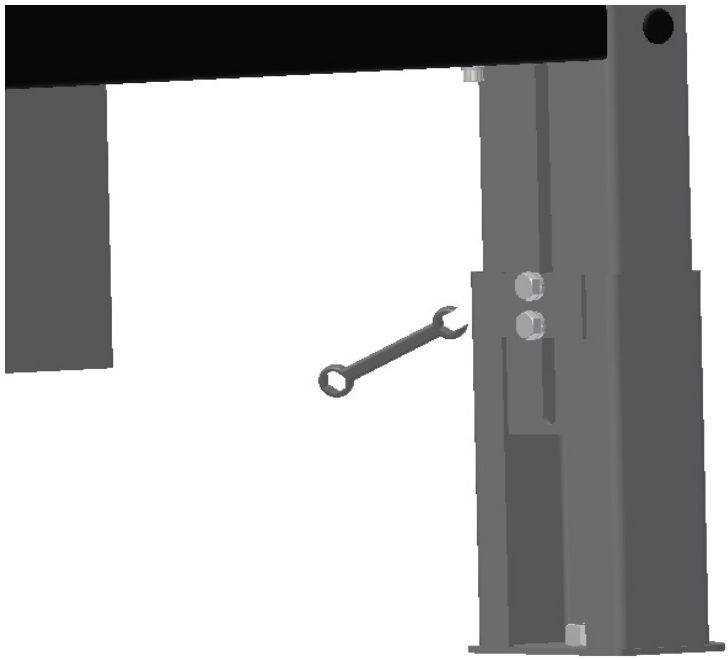
Step Two: *Take care removing the machine from the skid as it weighs 550 pounds! Use a forklift or similar device to complete this task*

Step Three: Move machine to designate location. It may be necessary to adjust the conveyor height of the machine. The legs on the machine are adjustable by loosening the leg clamping hardware and sliding the leg to its proper position. The use of a jack or forklift is required. (Refer to figure on page 7)

Step Four: Connect compressed air and electricity to the machine.



Leg retracted



Leg extended

Chapter

5

Theory of Operation

LDXRTB

The LDXRTB 2.0 will automatically adjust itself for the width and height of the box to be sealed.

With the machine started, a box is placed on the infeed pack table. The box is moved forward until photoelectric sensor "PE1" is triggered. The triggering of "PE1" will energize solenoid valve "SV2" which will cause the side rails to travel inward centering the box on the pack table and holding it in place. The operator is able to fill the box with product and fold the top flaps of the box down. While holding the top flaps down the operator pushes the box forward until the leading panel of the box contacts the sensing paddle. When the sensing paddle is depress it triggers a prox. switch "PROX 1" which in turns supplies energy to solenoid valve "SV3". When valve "SV3" is energized, the top head assembly will begin to travel upward until the front sensing paddle is no longer being held in by the front panel of the box. Now the operator can push the box into the machine under the top drive assembly. **(Note: always hold the top flaps of the box down at the rear of the box to avoid accidental entrapment with the top drive assembly)** The top drive assembly will lower down on top of the box and will propel it through the machine. As the box moves off photoelectric sensor "PE1 & PE1A" the side rail solenoid valve, "SV2" will de-energize and the side rails will open to their home position. The box will travel through the tape cartridges and tape will be applied to the box. The box will exit the machine and the top head assembly will lower down to its home position.

Key design features:

The LDXRTB 2.0 incorporates an adjustable bracket for photoelectric sensor "PE1". The bracket allows various positions to trigger the side rails inward. By mounting the bracket closer to the infeed of the machine, the side rails will close on to a greater amount of the side panels of the box. This position is optimal if the operator is loading product into the box before sealing it. By mounting the photoelectric sensor at the beginning of the pack table the side rails will close in sooner as the box is moved toward the infeed of the machine. This position is optimal if the box is already filled and the flaps are folded. The operator can advance the box and the side rails will center it, as the box is moving.

The LDXRTB 2.0 incorporates a box overstuffed switch. This switch is located in the bottom of the frame assembly. As a box is fed into the machine, the top head drive assembly lowers down on top of it. The overstuff switch is triggered. This action eliminates any chances of the sensing paddle retriggering causing the head to rise while the box is being processed. Typically, an overstuffed box can retrigger the sensing paddle and the head will raise causing poor tape application or a box jam. The overstuff switch nulls out the sensing paddle while it is activated.

The LDXRTB 2.0 incorporates an adjustable top head assembly limiter. The head limiter controls the minimum height of the top head assembly at rest. (The starting point) The head limiter allows for more through put speed by limiting how far the top head assembly travels before it clears the height of the box to be processed. For example if the minimum box height to be processed is 10 inches, the head limiter can be set at 9.5". By setting the limiter, the head only travel downward to the 9.5" position after each box.

The LDXRTB 2.0 incorporates an adjustable siderail limiter. The siderail limiter controls the maximum width of the siderails at rest. (The starting point) This allows for more through put speed by

limiting how far the siderails run out to. For example if the maximum box width is 15 inches, the siderail limiter can be set at 16 inches. This will increase through put by not letting the siderails return to the max. width of 26 inches.

The LDXRTB 2.0 incorporates a movable control station. The control station can be placed to any metal surface of the machine. This versatility allows the operator to place the controls of the machine at the best position for them

The LDXRTB 2.0 incorporates uniform lock capability on the head and side rails assembly on the machine. The top head and side rail assemblies can be locked at a specific position to process a batch of same size boxes. The assemblies can be locked in either tandem or individually dependant on need. This increases the throughput of the machine since it does not have to wait for the machine to adjust to the box.

The LDXRTB 2.0 incorporates a maintained manual head raising toggle switch. This switch allows the head to be raised without the machine running. With the machine stopped and the emergency stop switches extended, the head can be raised. This is convenient when re-filling the bottom tape cartridge or box jam clearing. **(Note: never enter under the machines top head assembly, without locking the upper head assembly with the lock knob.)**

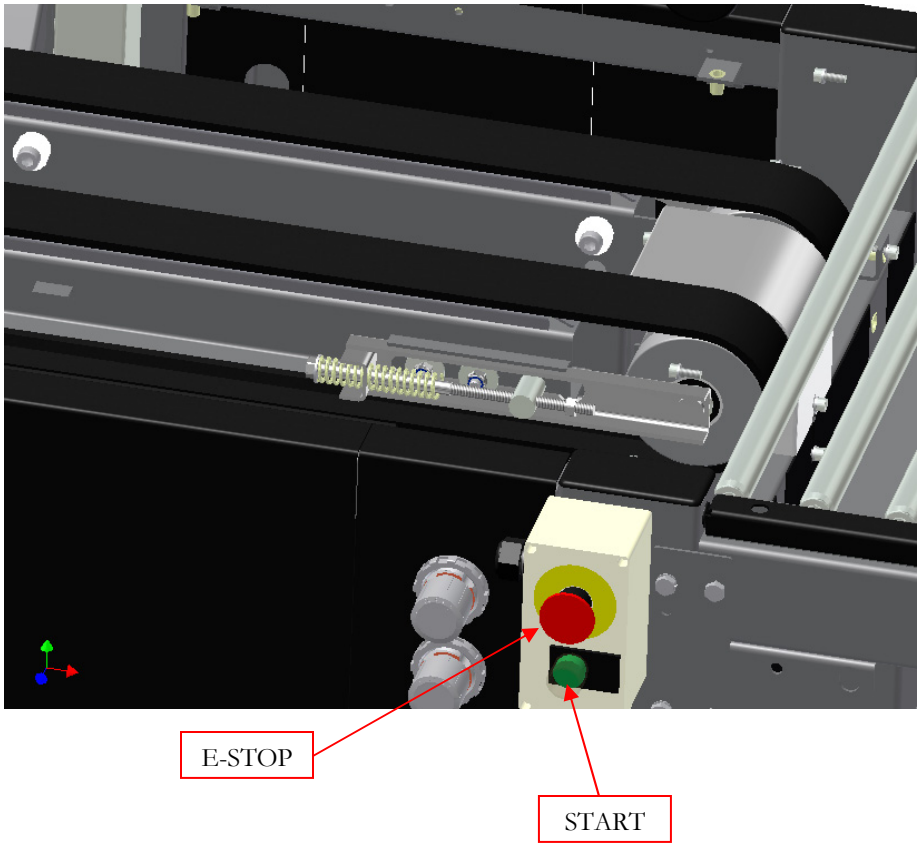
Chapter

6

Machine Components

Control Station

The control station consist of an electrical enclosure, push pull mushroom head emergency stop switch and a momentary start pushbutton. The control station has two magnets on the back side of it which allows the operator to locate the machine controls to best fit their position at the machine.



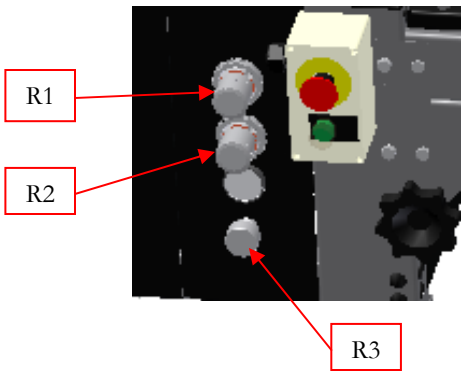
Pneumatic regulators

The regulators optimize the machine for the customers' specific needs. Regulators "R1" and "R3" control the top head lifting movement while "R2" controls the side rails.

Regulator "R1" controls the head lifting pressure and is normally set to 80 psi. Lowering the air pressure will make the top head assembly move upward sluggishly. Increasing the pressure will make the head travel upwards quickly. However; by increasing the pressure the head over travel will increase and actually decrease through put.

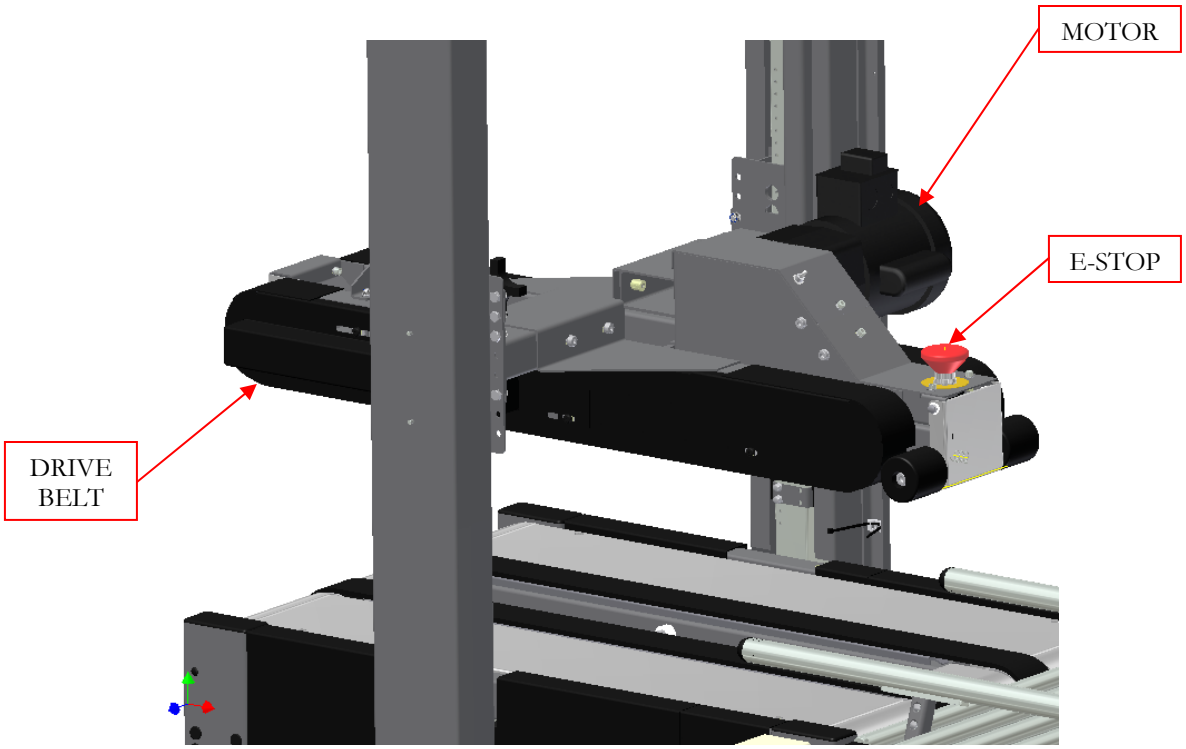
Regulator "R3" controls the downward force the top head assembly will exert on to the top of the box when it contacts it. By decreasing the pressure, the head will have more downward force on the box, which is desirable for overfilled conditions. Increasing the pressure will lessen the top head assembly downward force, which is desirable for voided boxes. Note: too much pressure may inhibit the top assembly from lowering downward or may cause box staling due to the top belts from not contacting the box with enough drive.

Regulator "R2" controls the pressure that the side rails center and hold the box. By increasing the pressure the side rails can center heavier boxes on the pack table. By increasing the pressure the side rails have more clamping force which makes it more difficult to advance a box into the machine. Lowering the pressure is desirable when processing light boxes. Be careful not to lower the pressure too much, this will cause the side rails not to fully travel inward.



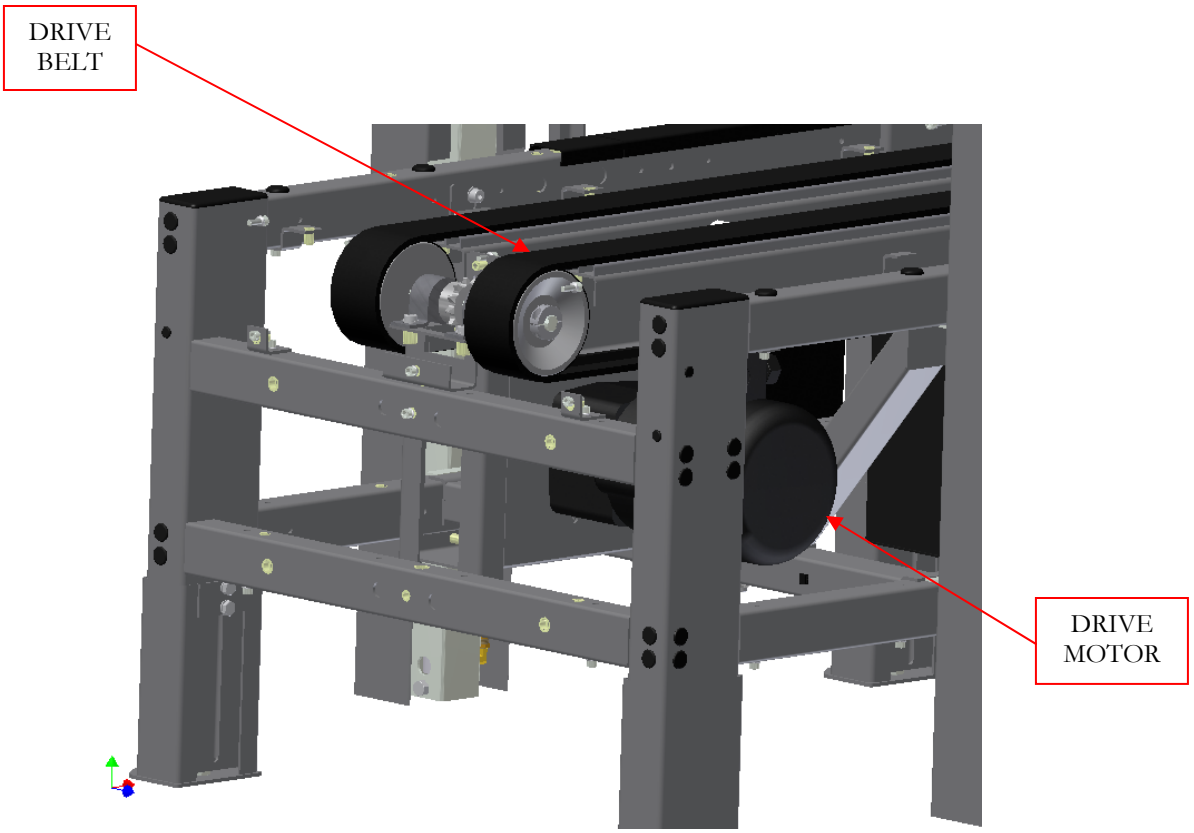
Top drive assembly

The top drive assembly consist of a 1/5 hp gear motor, sprockets, chain and endless, guided, rough top belting. The top drive assembly, assist in conveying the box forward through the machine. The top drive assembly insures that tall unstable boxes will not topple over as they process through the machine. The endless rough top belt has an integral guide rib on the back of it. This guide eliminates any sophisticated apparatus to track the belt. The endless belt feature has increased longevity over conventional laced belting.



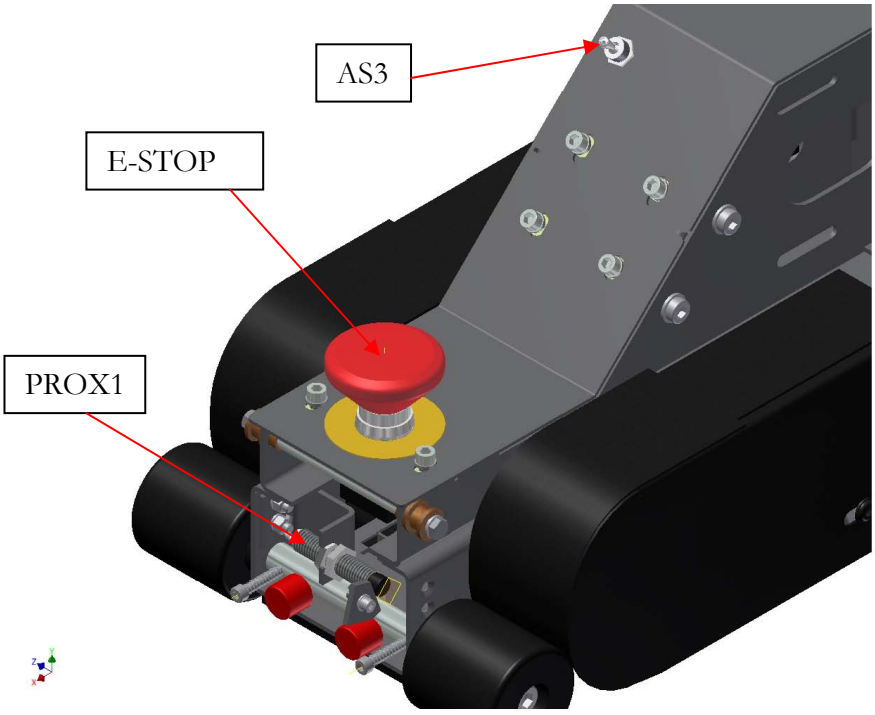
Bottom drive assembly

The bottom drive assembly consist of a 1/3 hp gear motor, sprockets, chain and endless, guided, rough top belting. The bottom drive assembly is the main driver in conveying the box forward through the machine. The bottom drive assembly insures that boxes will travel through the machine without stalling The endless rough top belt has an integral guide rib on the back of it. This guide eliminates any sophisticated apparatus to track the belt. The endless belt feature has increased longevity over conventional laced belting.



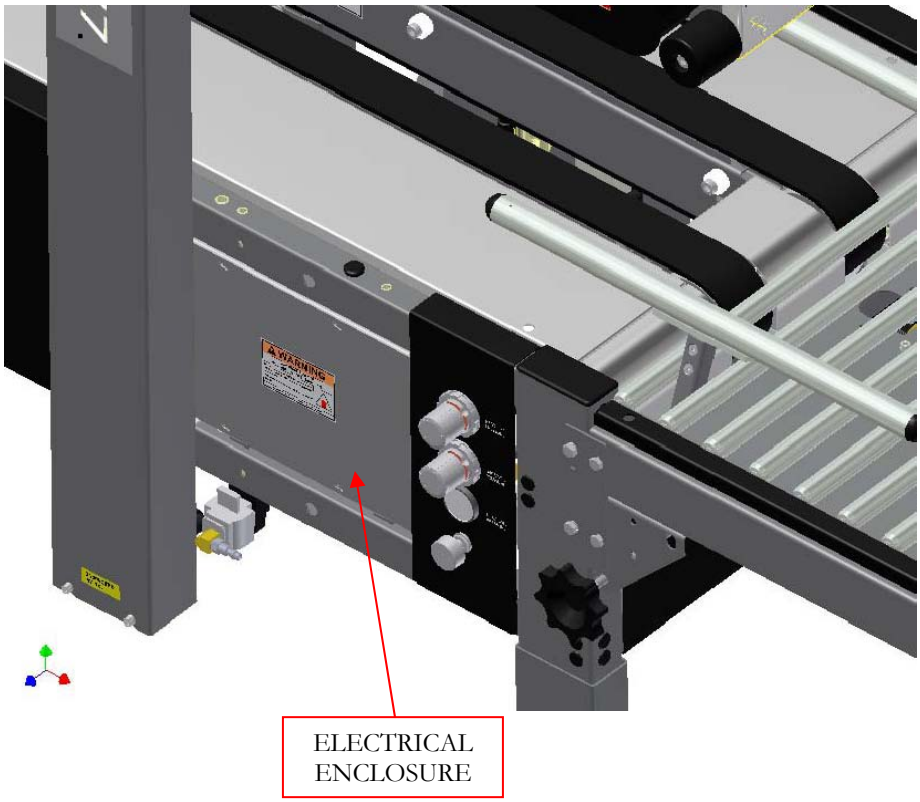
Sensing paddle assembly

The sensing paddle assembly, consist of a proximity switch "PROX1" and a single air switch "AS3". The sensing paddle primary function is to measure the height of the box as it at the infeed of the machine. When the sensing paddle is depressed inward by the leading panel of the box, proximity switch "PROX1" is triggered and then triggers valve "SV3". "SV3" in turn fills the head lifting cylinders which causes the top head assembly to travel upward. When the top head assembly raises higher than the box to be processed, switch "PROX1" releases and the head will start to travel downward on top of the box to be processed. When a box is travelling under the top head assembly into the machine, it is passing under the head-sensing paddle. If the top of the box inadvertently contacts the sensing paddle without blocking "PE1A" the head would raise up again and cause taping or jamming issues in the machine. Photo eye "PE1A" nulls proximity switch "PROX1" when it is blocked. machine front idler rollers. Air switch "AS3" is the manual head raise switch located on the top drive weldment.



Electrical enclosure assembly

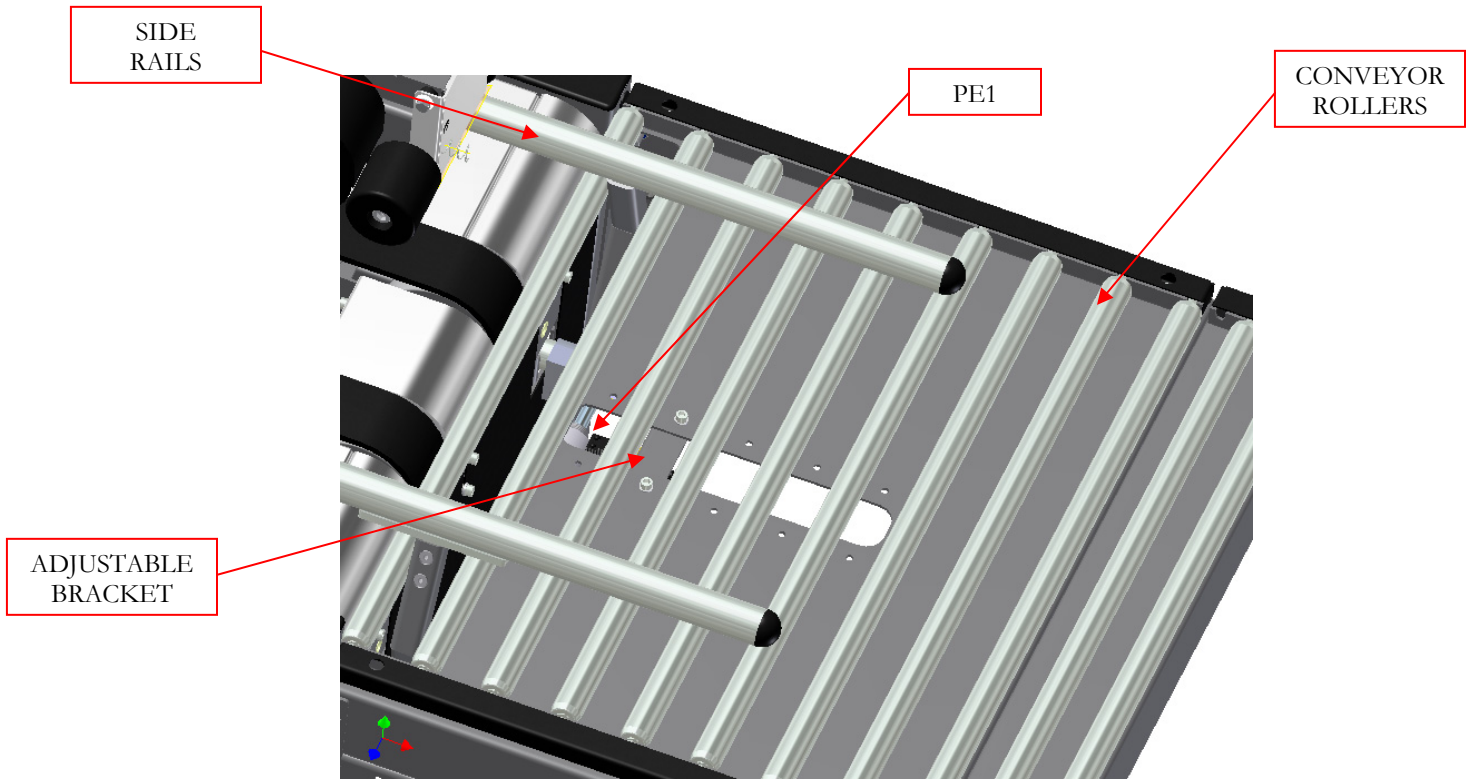
The electrical enclosure assembly is located inside the frame of the machine behind side panel. The enclosure is located next to the air pressure regulator. Inside the electrical enclosure are fuses, contactors, overload relays and terminal blocks. The devices selected protect the machine from short circuit and overload conditions.



Pack table assembly

The pack table assembly consists of conveyor rollers, photoelectric sensor and works in conjunction with the side rails. The pack table design allows it to be used as a platform to fill a box on and then be able to convey it to the infeed of the machine. The photoelectric sensor "PE1" is mounted under the pack table with is sensing area pointed up through the rollers of

the table. The photoelectric sensor is triggered when the box is rolled over the top of it. The side rails will travel inward and center and hold the box in place. With the box being held in position an operator can fill it without the box moving around. When the box is filled the top flaps must be folded down and pushed up against the sensing paddle. Once the box enters the machine the photoelectric sensor will be cleared and the side rails will open completely. The position of the sensor can be changed to allow the side rails to be triggered either earlier or later.



Chapter

7

Maintenance

Safety: **NEVER** perform any maintenance on the LDXRTB 2.0 without first following your company's **LOCK OUT / TAG OUT** procedures.

Replacing Top Drive Gear motor

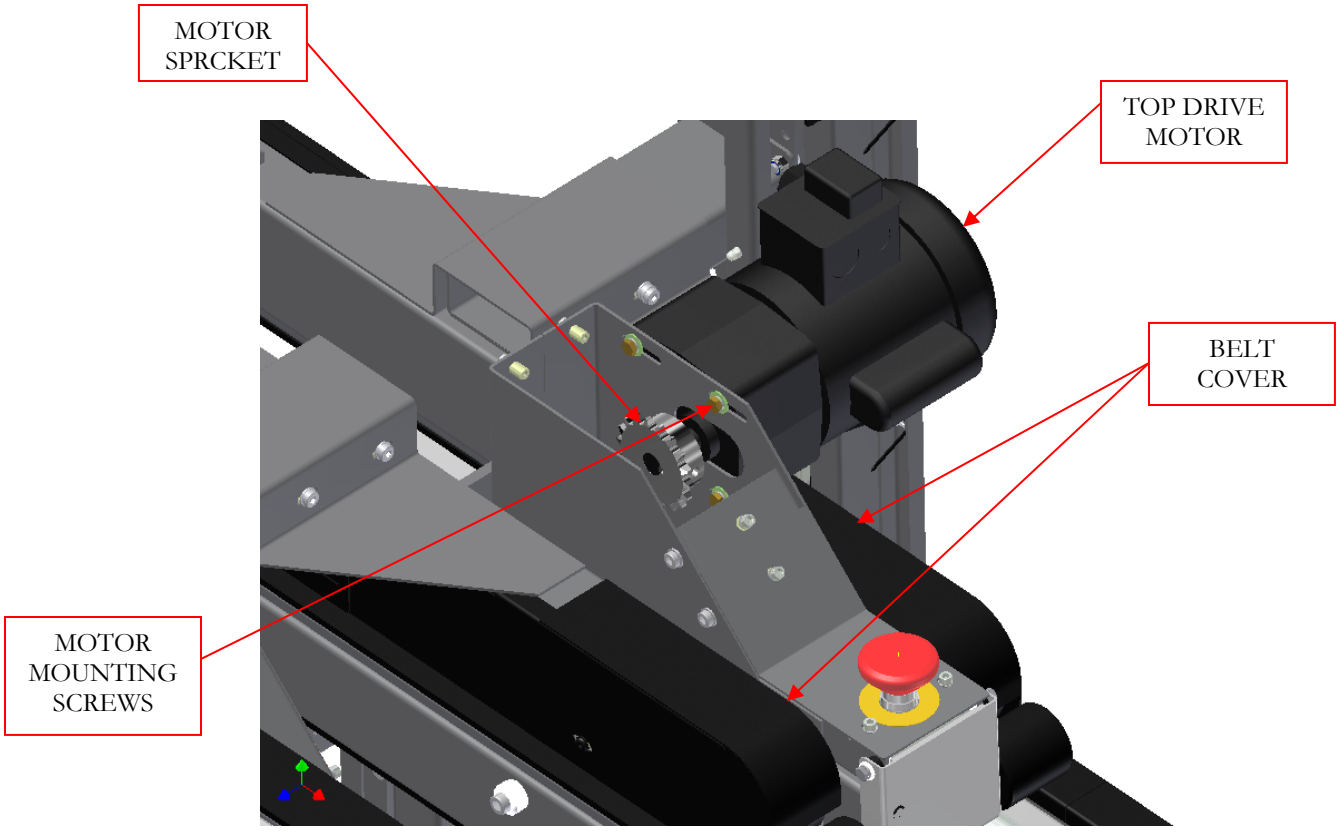
1. Disconnect motor cable from the motor conduit box.
2. Remove top drive guard. (guard with integral manual head raise switch)
3. Loosen two set screws which hold sprocket on motor shaft. (measure distance from face of sprocket to end of motor shaft and record)
4. Loosen four mounting screws which secure motor to mounting bracket.
5. Slide motor to release drive chain tension.
6. Slide sprocket off of motor shaft.
7. Remove motor mounting screws completely and remove motor.
8. Mount replacement motor on to mounting bracket and replace the four mounting screws.

9. Slide sprocket on to motor shaft with the drive chain on the sprocket. Position sprocket on the motor shaft as recorded in step 3. Tighten sprocket set screws when proper position is obtained.

10. Slide motors until drive chain is tensioned properly and tighten the four mounting screws. The drive chain should have approximately ½ inch deflection when pressed. Over tightening the chain can cause premature wear.

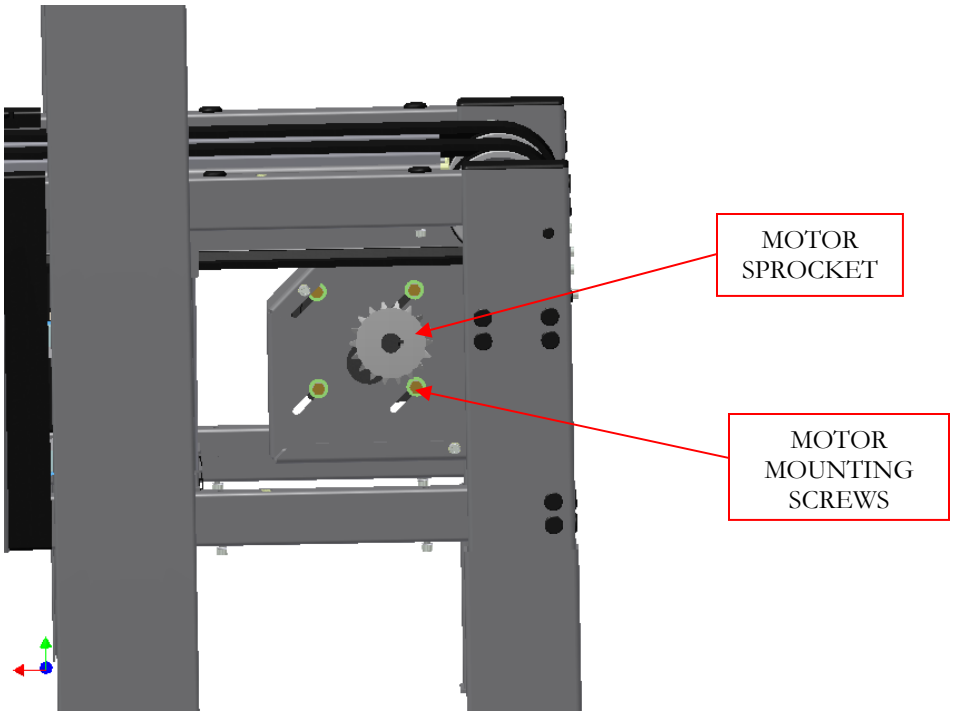
11. Replace top drive guard.

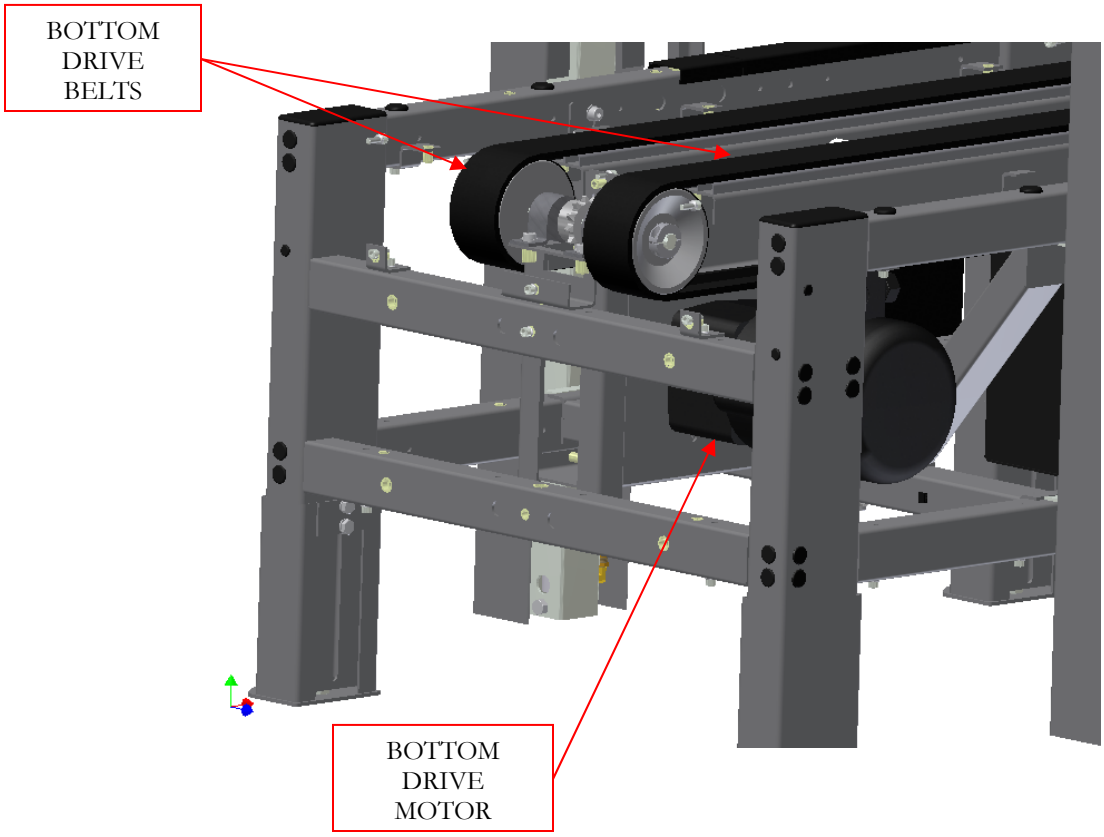
12. Re-connect motor cable in the motor conduit box.



Replacing Bottom Drive Gear motor

1. Disconnect motor cable from the motor conduit box.
2. Remove bottom drive top, side and rear guards from the machine.
3. Remove guard form bottom drive motor drive guard.
4. Disconnect motor cable from the motor conduit box.
5. Loosen two set screws which hold sprocket on motor shaft. (measure distance from face of sprocket to end of motor shaft and record)
6. Loosen four mounting screws which secure motor to mounting bracket.
7. Slide motor to release drive chain tension.
8. Slide sprocket off of motor shaft.
9. Remove motor mounting screws completely and remove motor.
10. Mount replacement motor on to mounting bracket and replace the four mounting screws.
11. Slide sprocket on to motor shaft with the drive chain on the sprocket. Position sprocket on the motor shaft as recorded in step 5. Tighten sprocket set screws when proper position is obtained.
12. Slide motors until drive chain is tensioned properly and tighten the four mounting screws. The drive chain should have approximately ½ inch deflection when pressed. Over tightening the chain can cause premature wear.
13. Replace all guards removed in earlier steps.
14. Re-connect motor cable in the motor conduit box.


MOTOR
SPROCKET
MOTOR
MOUNTING
SCREWS

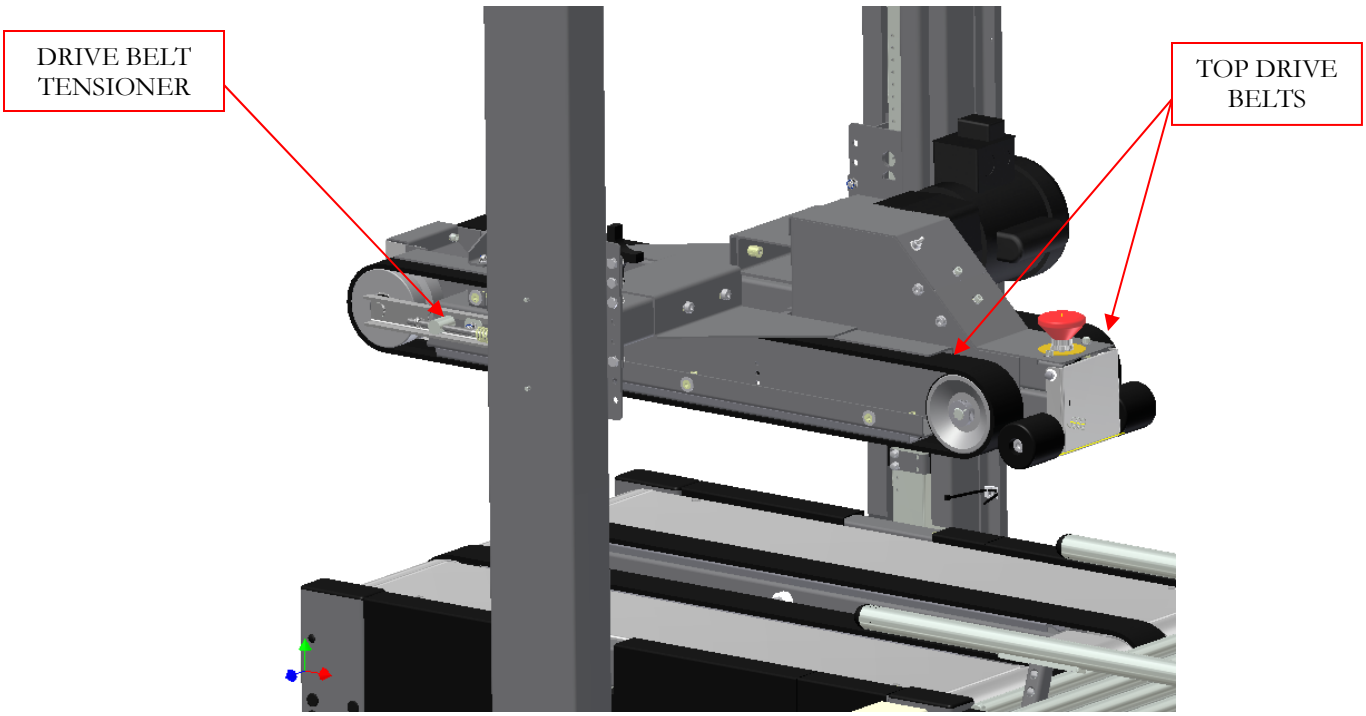


Replacing Top Drive Belt

1. Remove top drive belt covers.
2. Relieve belt tensioning spring.
3. Slide belt over pulleys to get center guide of belt out of the center grooves of the pulleys.
4. Install new belt by first putting belt over one of the pulleys and then sliding it over the other pulley while pulling the belt.

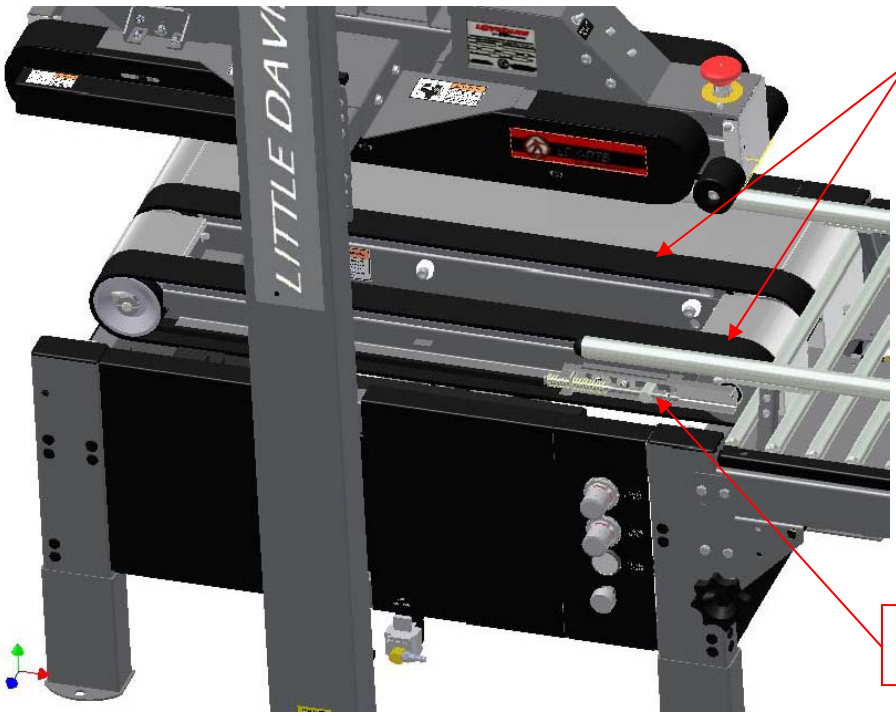
5. Re-tension spring until it is fully compressed.

6. Replace top drive belt cover.



Replacing Bottom Drive Belt

1. Remove bottom drive belt covers.
2. Relieve belt tensioning spring.
3. Slide belt over pulleys to get center guide of belt out of the center grooves of the pulleys.
4. Install new belt by first putting belt over one of the pulleys and then sliding it over the other pulley while pulling the belt.
5. Re-tension spring until it is fully compressed.
6. Replace top drive belt cover.



Chapter

8

Troubleshooting:

PROBLEM	CAUSE	CORRECTIVE ACTION
Machine will not start.	Emergency stop switch(s) activated either control box or top head assembly.	Check that both E-stop switches are not engaged.
	No incoming power.	Check machine fuses and plant receptacle.
	Defective start pushbutton	Re-place pushbutton.
Box jamming in machine.	Box is out of range of machine.	Do not run out of spec box.
	Box is voided and head is crushing it.	Adjust head balance regulator.
	Tape cartridge problems.	Check tape cartridge troubleshooting.
	Drive belting worn.	Replace drive belts.
Top head assy. won't move.	Machine E-stopped.	Check that E-stops are not engaged.
	Air not present at machine.	Connect machine airline.
	Photo eye PE1A is not working.	Clean or replace photo eye.
	Proximity switch PROX1 is not working.	Readjust or replace prox. switch.
	Head lift cylinders blocking valve failure.	Replace blocking valves.
Side rails will not move.	Machine E-stopped.	Check that E-stops are not engaged.
	Side rail lock knob engaged.	Release side rail lock knob.
	Photo eye PE1 is not working.	Replace photo eye.
	Solenoid SV2 is not working.	Replace solenoid valve.

Drive belts are slipping.	Belts are not tensioned. Belts are worn.	Adjust tensioner until spring is collapsed. Replace drive belts.

Chapter

9

Warranty:

CASE SEALER, CUSTOM & SPECIAL APPLICATIONS

Little David® Warranty

For: All Standard Little David® Semi-Automatic Case Sealers.
All Standard LD-16 Series Fully Automatic Case Sealers.

All Special Application Case Sealers (Fully & Semi Automatic).

2 YEAR WARRANTY ON DRIVE MOTOR
2 YEAR WARRANTY ON GEAR MOTOR
2 YEAR WARRANTY ON GEAR REDUCER
3 YEAR WARRANTY ON TAPE CARTRIDGE
(EXCEPT FOR MOVING PARTS THAT ARE SUBJECT TO NORMAL WEAR, TEAR AND REPLACEMENT WHICH ARE WARRANTED ONLY TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP.)

1 YEAR ON PLC
1 YEAR ON SERVO DRIVE
1 YEAR ALL OTHER PARTS
Except for wear and moving parts.

*LIMITED WARRANTY – **LOVESHAW**, an ***ITW*** COMPANY (HEREIN AFTER "***LOVESHAW***")
WARRANTS ONLY THAT THE GOODS SOLD BY IT SHALL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP, UNDER PROPER AND NORMAL USE AND MAINTENANCE,

AS FOLLOWS:

DRIVE MOTOR - 2 YEARS
GEAR REDUCER - 2 YEARS
GEAR MOTOR - 2 YEARS (THIS APPLIES TO SIDE BELTS ONLY)
TAPE CARTRIDGE - 3 YEARS (EXCEPT FOR MOVING PARTS AND PARTS WHICH ARE SUBJECT TO NORMAL WEAR, TEAR AND REPLACEMENT WHICH ARE WARRANTED ONLY TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP);
PLC - 1 YEAR
SERVO DRIVE - 1 YEAR
ALL OTHER PARTS - 1 YEAR (EXCEPT FOR MOVING PARTS AND PARTS, WHICH ARE SUBJECT TO NORMAL WEAR, TEAR AND REPLACEMENT WHICH ARE WARRANTED ONLY TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP).

THE WARRANTY PERIOD SHALL COMMENCE AS OF THE DATE OF DELIVERY TO THE PURCHASER. THE OBLIGATION OF **LOVESHAW** UNDER THIS WARRANTY IS STRICTLY LIMITED TO THE COST OF REPAIRING OR REPLACING, AS **LOVESHAW** MAY ELECT, ANY PART OR PARTS THAT PROVE IN **LOVESHAW'S** JUDGMENT TO HAVE BEEN DEFECTIVE IN MATERIAL OR WORKMANSHIP AT THE TIME THE GOODS WERE SHIPPED FROM **LOVESHAW'S** PLANT. ANY WARRANTY CLAIM NOT MADE IN WRITING TO **LOVESHAW** AT ITS HOME OFFICE WITHIN THE APPLICABLE WARRANTY PERIOD AND WITHIN 10 DAYS OF FAILURE WILL NOT BE VALID. THIS IS THE SOLE AND EXCLUSIVE REMEDY AVAILABLE UNDER THIS WARRANTY. UNDER NO CIRCUMSTANCES WILL **LOVESHAW** BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES.

IF REQUESTED BY **LOVESHAW**, PURCHASER SHALL RETURN ANY DEFECTIVE PART OR PARTS TO **LOVESHAW'S** PLANT, FREIGHT PREPAID. ALL WARRANTY PART REPLACEMENT AND REPAIRS MUST BE MADE BY **LOVESHAW** OR A **LOVESHAW** DEALER AUTHORIZED TO HANDLE THE GOODS COVERED BY THIS WARRANTY. ANY OUTSIDE WORK OR ALTERATIONS DONE WITHOUT **LOVESHAW'S** PRIOR WRITTEN APPROVAL WILL RENDER THIS WARRANTY VOID. **LOVESHAW** an ***ITW*** COMPANY WILL NOT ASSUME ANY EXPENSE OR LIABILITY FOR ANY REPAIRS MADE TO ITS GOODS OUTSIDE ITS WORKS WITHOUT ITS PRIOR WRITTEN CONSENT. THIS WARRANTY SHALL NOT APPLY TO ANY ITEM THAT HAS NOT BEEN USED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH **LOVESHAW'S** RECOMMENDED PROCEDURES. **LOVESHAW** SHALL HAVE NO LIABILITY WHATSOEVER WHERE THE GOODS HAVE BEEN ALTERED, MISUSED, ABUSED OR INVOLVED IN AN ACCIDENT.

NO PERSON IS AUTHORIZED TO MAKE ANY WARRANTY OR TO CREATE ANY LIABILITY BINDING UPON **LOVESHAW**, WHICH IS NOT STATED IN THIS WARRANTY. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, WHICH ARE HEREBY EXCLUDED. IN PARTICULAR, THE IMPLIED WARRANTY OF MERCHANTABILITY, AS WELL AS THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED.

LOVESHAW

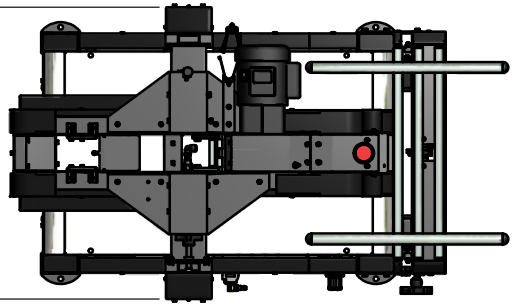
an ***ITW*** Company
2206 Easton Turnpike, South Canaan,, PA 18459
570.937.4921 - 800.572.3434 - *FAX* 570.937.3229

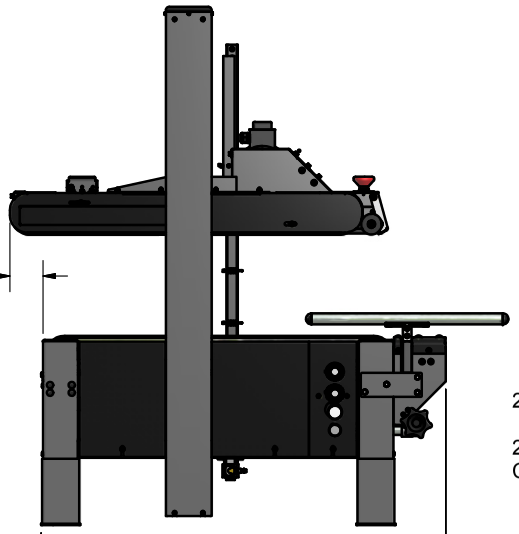
Chapter

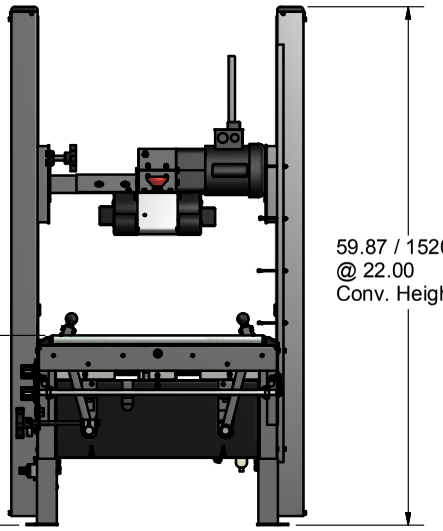
10

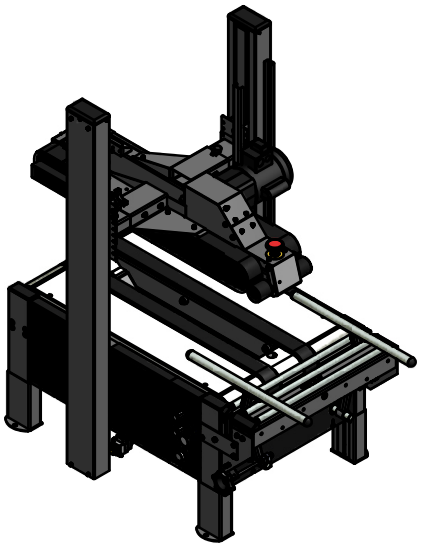
ASSEMBLY DRAWINGS AND SCHEMATICS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	4/6/2011	TONYS









46.30 / 1179.02 — BASE MACHINE
50.30 / 1277.62 — BASE MACH. w/ (.ITA/LDXRTB/4)
55.50 / 1409.70 — BASE MACH. w/ (.ITA/LDXRTB/9)
60.30 / 1531.62 — BASE MACH. w/ (.ITA/LDXRTB/14)
64.30 / 1633.14 — BASE MACH. w/ (.ITA/LDXRTB/18)

TOTAL MACHINE LENGTH

Note:

Belt Speed: 115 ft/min (Standard)
155 ft/min (Optional)
Air Required: 10 SCFM @ 95 psi
Power Required: 15 amps @ 115 VAC

Box Range: L = 6.0 / 152.4 min. to INF.
W = 5.5 / 139.7 min. to 26.0 / 660.4 max.
H = 3.5 / 88.9 min. to 24.0 / 609.6 max.
(2.5 / 63.5 min. height with smaller tape leg)

MAT'L	PART #	CAD FILE	LDXRTB MAIN ASSY 2.0 W footprint.idw
NOTED	STD	PLOT DATE	4/6/2011
ST. ST.	N/A	DRAWN DATE	4/6/2011
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

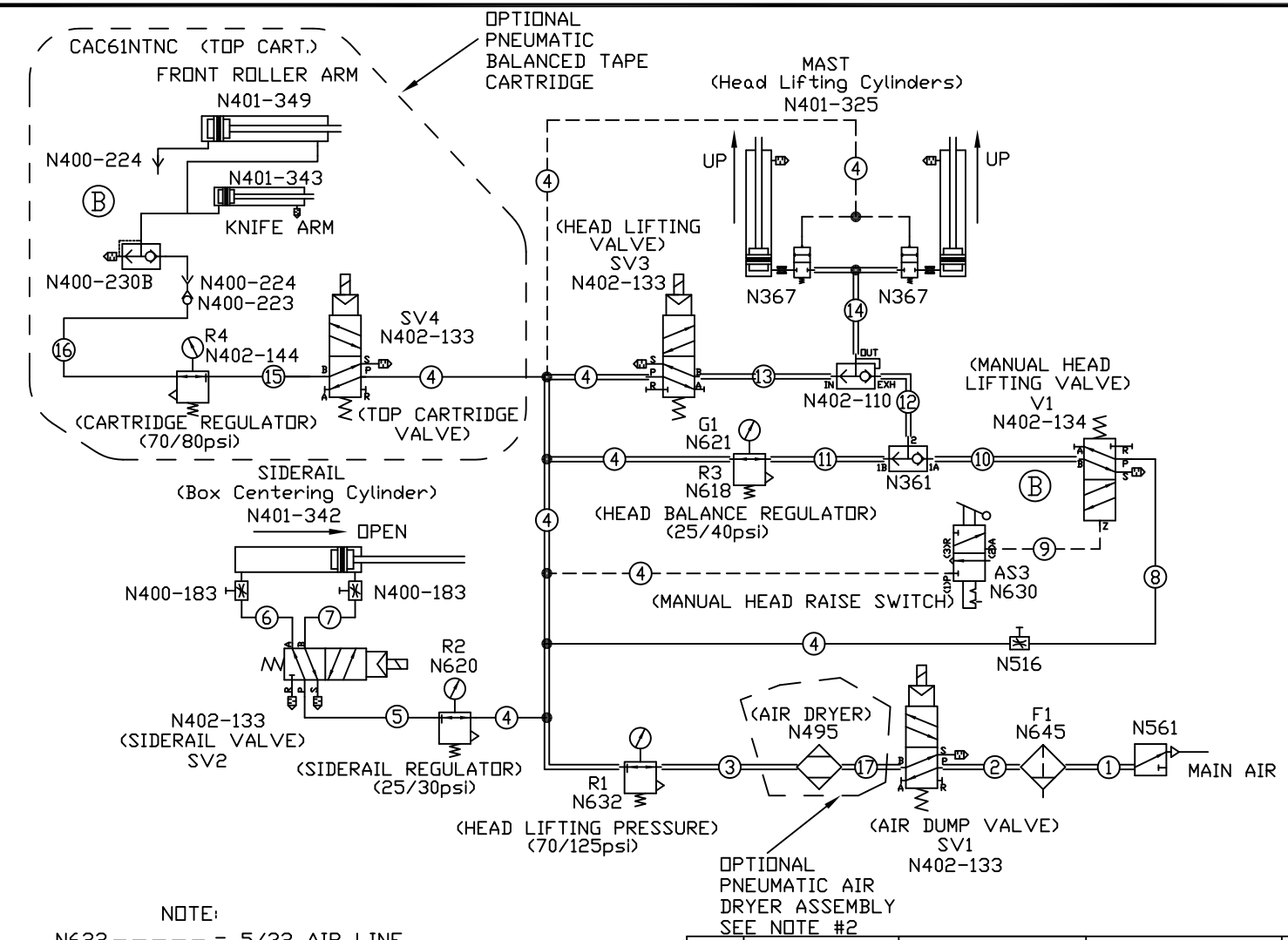
TOLERANCES UNLESS OTHERWISE NOTED:
.X = ±.050
INCH .XX = ±.015 ANGLES ±1/2°
.XXX = ±.005
.X = ±1.0mm
METRIC .XX = ±.3mm MACH. FINISH 125
.XXX = ±.1mm
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE
LDXRTB 2.0 FOOTPRINT

DWG NO	LDXRTB MAIN ASSY 2.0 W	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

REVISION RECORD					
REV	DESCRIPTION	DATE	ATH	DR	CK
A	RELEASED	2/4/2011		AJS	
B	ECO 11-206	10/26/2011		AJS	



NOTE:

N622 - - - - - = 5/32 AIR LINE
PSR700 ——— = 1/4 AIR LINE
N580 ═══ = 3/8 AIR LINE

ASSY DWG. PNEU/LDXRTBrevB.IDW

2. ONLY USE HOSE MARKER #17 IF INSTALLING N495.

MAT'L	PART #	CAD FILE: G83855
NOTED	STD	PLOT DATE: 2/4/2011
ST. ST.		DRAWN DATE: 2/4/2011
STAINLESS: NO FINISH		DO NOT SCALE PRINT

TOLERANCES UNLESSS OTHERWISE NOTED:

INCH .X = ±.050, .XX = ±.015, .XXX = ±.005
METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm
ANGLES ±1/2° FRACTIONS ±1/64
MACHINE FINISH 125

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

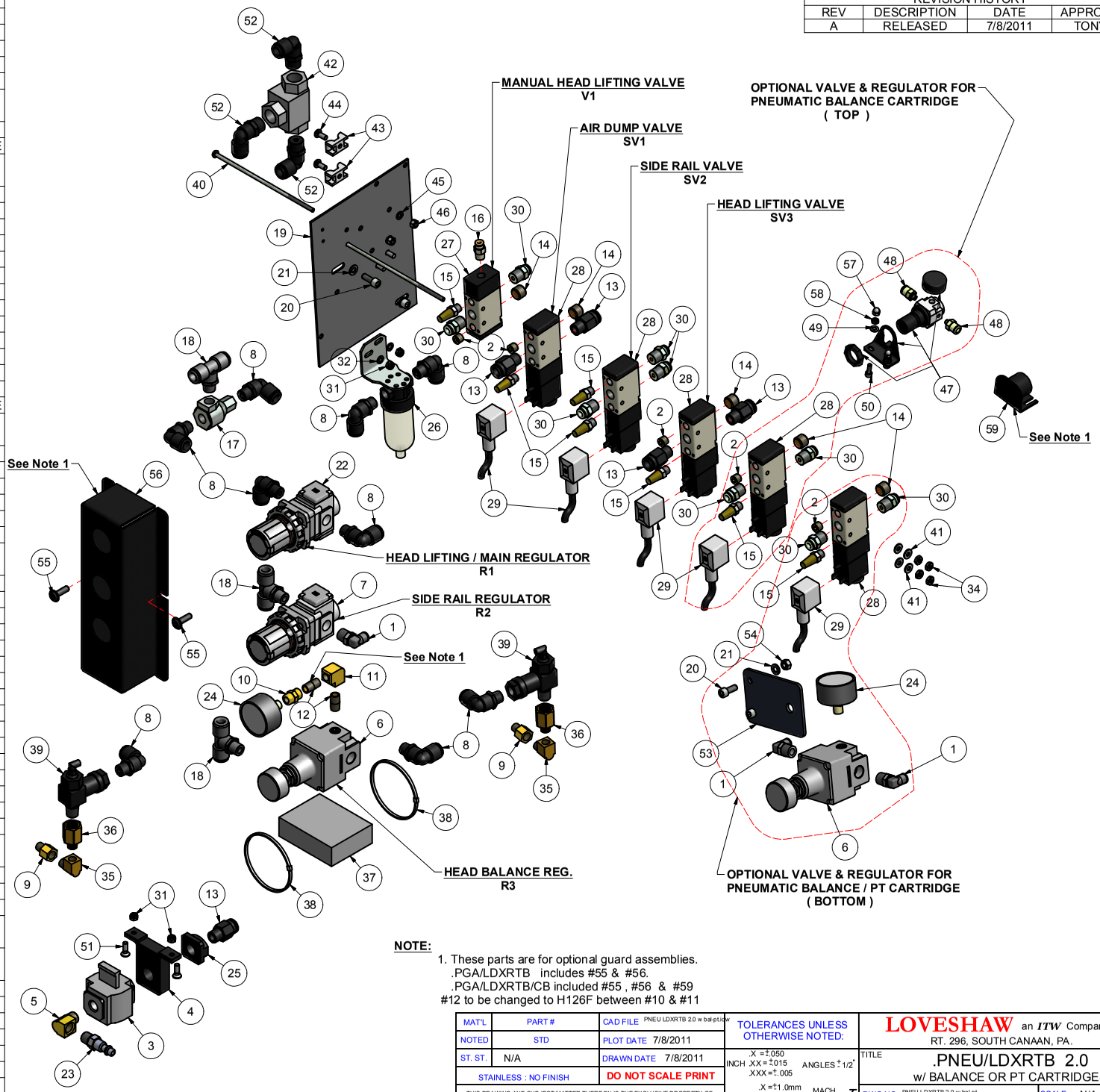
TITLE: PNEU. SCH. LDXRTB 2.0

DWG. #: PNEU-0233-4		SCALE: N/A
MATERIAL: NOTED		CHECK'D:
DESIGNED:	DRAWN: AJS	APPRV'D:

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	7/8/2011	TONYS

Parts List

ITE	QT	PART NUMBER	DESCRIPTION
1	3	N400-26	ELBOW, 1/4 NPT X 1/4 TUBE
2	5	H109B	PLUG, HEX, 1/8 NPT
3	1	N561	LOCK OUT VALVE, 1/4 NPT
4	1	N562-MB-A	MOUNTING BRACKET
5	1	PF-10	BRASS STREET ELBOW, 90, 1/4 NPT
6	2	N618	REG. PRECISION MOD.
7	1	N620	REGULATOR, GAUGE- HANDLE
8	9	PF-18	ELBOW, 1/4NPT X 3/8 PUSHLOC
9	2	PSR622	FITTING
10	1	N400-204	coupling 1/8 npt
11	1	N400-206	ELBOW 90 DEG FEM
12	2	H126C	NIPPLE
13	5	PF-17	1/4 Tube to 3/8 NPT
14	5	PF-9	PLUG, HEX SOC PIPE, 1/4 NPT
15	7	N400-17	MUFFLER, 1/8 NPT
16	1	n623	fitting 1/8 npt -5/32 tube
17	1	N402-110	QUICK EXAUST
18	3	PF-20	TEE, 1/4 NPT X 3/8 PUSHLOC
19	1	LDX-0208-4	PLATE, PNEU. ASSY.
20	4	FSHMG016P10	SHCS M6x16 LG.
21	4	FLWMGP	LOCK WASHER M6
22	1	N632	REGULATOR, GAUGE- HANDLE
23	1	PF-22	QUICK DISCONNECT PLUG, 1/4 MNPT
24	2	N621	GAUGE 0 to 60 psi
25	1	N562 TA	THREAD ADAPTER
26	1	N645	AIR FILTER w/ BRKT
27	1	N402-134	VALVE 5/2 AIR PILOT
28	5	N402-133	VALVE SOL 5/2
29	5	N646	VALVE CABEL
30	9	N400-3	CONNECTOR, STRAIGHT, 1/4 NPT X 1/4 TUBE
31	4	FNLNMFS	M5 NYLON LOCKING NUT S.S.
32	2	FFWMFP	FLAT WASHER M5
33	2	FHHMF012P10	HHCS M5 X 12
34	4	FHFNSBP	#8-32 HEX NUT
35	2	H146	ELBOW
36	2	PF-27	PIPE ADAPTER, 1/4 X 1/8
37	1	LDX-0288-3	MUFFLER, FOAM
38	2	CPJ10-035-0	CABEL TIE
39	2	N367	BLOCKING VALVE
40	2	FPHSB600P08	SCREW 8-32 x 6" LG
41	4	FFWSBP	Type A Plain Washer
42	1	N361	SHUTTLE VALVE
43	2	AH206	WIRE / HOSE CRADLE
44	2	FBHMF012P10	HEX SOC. BUTT. HD. SCREW
45	2	FLWMFP	LOCK WASHER M5
46	2	FHFNMFP	HEX NUT M5
47	1	N402-144	REG. MINI, BRKT, NUT & GAUGE
48	2	N400-229	FITTING 1/4 TUBE to M5
49	2	FFWMEP	FW M4
50	2	FSHME012P10	M4-0.7 x 12mm SHCS
51	2	FFHMF016P10	FLAT HEAD CAP SCREW M5 X 16 LG.
52	3	PF-40	Fitting 90 deg. 3/8 Tube to 3/8 NPT
53	1	LDU-1320-4	BRACKET PREC. REG.
54	2	FHFNMGP	HEX NUT M6
55	2	SPH-1404	screw M6x20mm LG.
56	1	LDX-0341-4	COVER PNEU KNOBS (METAL)
57	2	FHDNMEP	DOME NUT M4
58	2	FHFNMEP	M4 HEX NUT
59	1	LDX-0403-3	GUARD, MINI REG.



NOTE:

1. These parts are for optional guard assemblies.
   .PGA/LDXRTB includes #55 & #56.
   .PGA/LDXRTB/CB included #55 , #56 & #59
   #12 to be changed to H126F between #10 & #11

MAT'L	PART #	CAD FILE	PNEU LDXRTB 2.0 w ball-pt low
NOTED	STD	PLOT DATE	7/8/2011
ST. ST.	N/A	DRAWN DATE	7/8/2011
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:
.X = ±.050
INCH .XX = ±.015
.XXX = ±.005
ANGLES ± 1/2°
.X = ±1.0mm
METRIC .XX = ±.3mm
.XXX = ±.1mm
MACH. FINISH 125
FRACTIONS ± 1/64

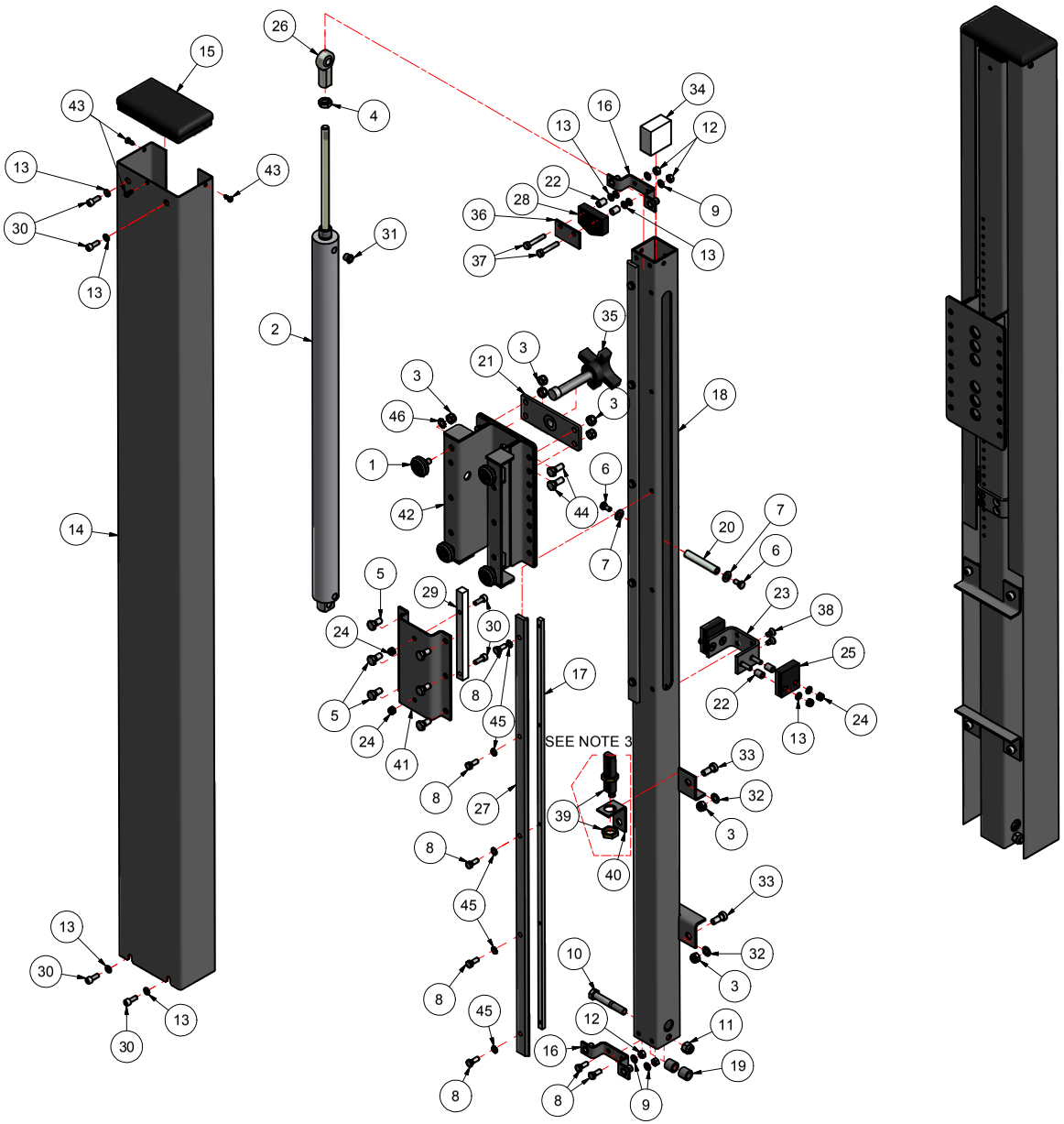
LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE: .PNEU/LDXRTB 2.0
w/ BALANCE OR PT CARTRIDGES

DWG NO	PNEU LDXRTB 2.0 w ball-pt	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	RL-1006	STUDDED VEE WHEEL, ECCENTRIC
2	2	N401-325	CYLINDER 24" stroke
3	32	FNLNMHP	NYLOCK NUT M8
4	2	FHJNSMP	7/16-20 HEX JAM NUT
5	12	FHHMH016P10	HHCS M8 X 16
6	4	FHHMG012P10	HHCS M6 X 12
7	4	FFWMHP	FLAT WASHER M8
8	24	FHHMG016P10	HHCS M6 X 16
9	8	FLWMGP	LOCK WASHER M6
10	2	FHHSJ250P05	HEX BOLT 3/8-16 X 2 1/2
11	2	FNLNSJP	3/8 Std NC Nylock Nut
12	8	FHFNMGP	HEX NUT M6
13	24	FFWMGP	FLAT WASHER M6
14	2	LDX-0067-5	GUARD, MAST
15	2	LDX-0068-4	CAP, MAST
16	4	LDX-0069-4	GUARD SUPPORT
17	4	LDX-0070-4	NUT PLATE, V TRACK
18	2	LDX-0267-4	MAST WELDMENT
19	4	LDX-0072-3	SPACER, CYL.
20	2	LDX-0073-3	PIN, MAST CYL
21	1	LDX-0137-4	HEAD LOCK PLATE
22	12	LDX-0140-3	BUMPER CRUSH SLEEVE
23	2	LDX-0323-4	BRKT. BUMPER
24	12	FNLNMGP	NYLOCK NUT M6
25	4	LDX-0159-3	BUMPER, MAST BOTTOM
26	2	SPH-1394	ROD END
27	4	LDX-0164-4	VEE TRACK
28	2	LDX-0165-3	BUMPER, HEAD
29	2	LDX-0166-3	BUMPER STOP
30	12	FSHMG016P10	SHCS M6x16 LG.
31	2	PSR659	BREATHER
32	8	FLWMHP	LOCK WASHER M8
33	8	FSHMH020P10	SHCS M8 X 20
34	2	LDX-0209-3	MAST CRUSH BLOCK
35	1	PSC301322	CLAMP SW. SCREW
36	2	LDX-0213-3	BUMPER, PLATE
37	4	FHHMG035P10	HHCS M6 X 35
38	4	FFHMG012P10	FHCS M6x12 LG.
39	1	A219-CH-2	PHOTOEYE
40	1	LDX-0275-3	PHOTOEYE BRKT. BAL. CART.
41	2	LDX-0386-4	NECK PLATE, REAR
42	2	LDX-0387-4	NECK SUPPORT
43	6	SPH-1488	SCREW
44	4	FHHMH020P10	HHCS M8 X 20
45	20	FETLWMGP	LOCK WASHER EXT. M6
46	8	FETLWMHP	Lock Washer Ext. M8

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	1/25/2011	TONYS



NOTE:

1. PSR656 to be installed after N401-325 (cylinder) is placed on to LDX-0125-4 (mast).
2. LDX-0071-4 is installed inside LDX-0125-4 (mast) before bolting to LDX-0164-4.
3. Photoeye #53 and bracket #54 are for pneumatic cartridge if applicable.

MAT'L	PART #	CAD FILE LDXRTB MAST ASSY 2.0.IDW	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE 1/25/2011	
ST. ST.	N/A	DRAWN DATE 1/25/2011	INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°
STAINLESS : NO FINISH		DO NOT SCALE PRINT	METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm, MACH. FINISH 125
			FRACTIONS ± 1/64

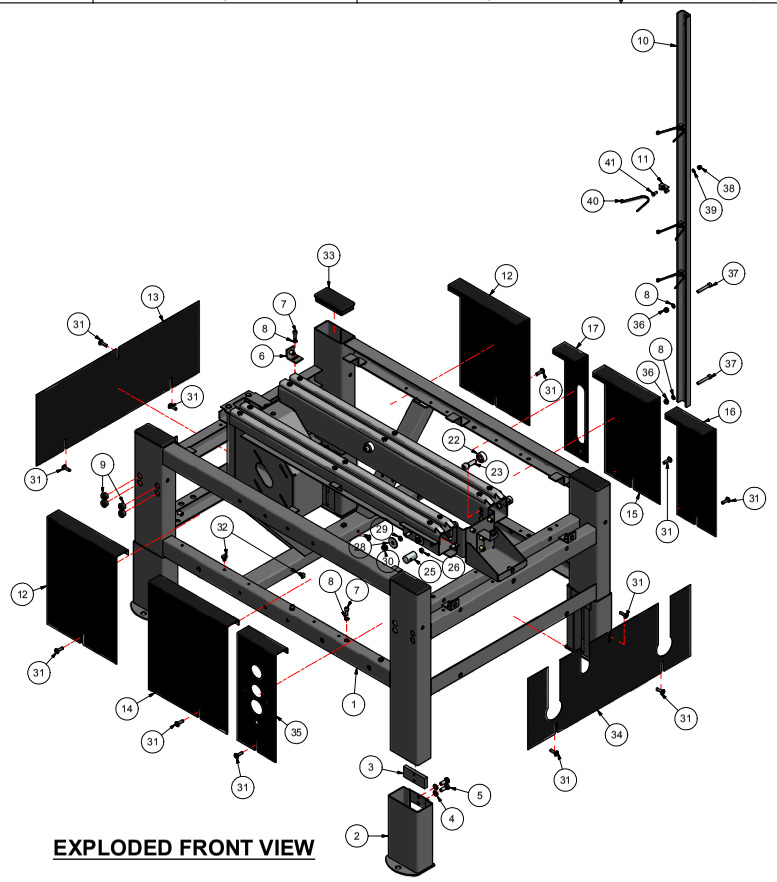
LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE .MA/LDXRTB/B

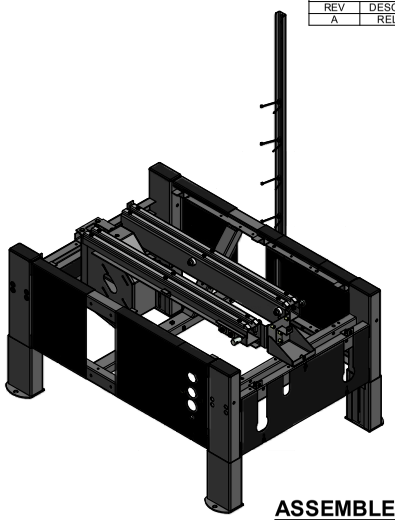
DWG NO	LDXRTB MAST ASSY 2.0	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LDX-0312-5	FRAME, BASE BOTTOM
2	4	LDX-0025-4	LEG EXTENSION
3	4	LDX-0030-3	EXTENSION LOCK
4	10	FLWMHP	LOCK WASHER M8
5	8	FHHMH020P10	HHCS M8 X 20
6	4	LDX-0029-3	GUARD ANGLE
7	12	FSHMG016P10	SHCS M6x16 LG.
8	14	FFWMGP	FLAT WASHER M6
9	8	SPH-1399	HOLE PLUG
10	1	LDX-0142-4	HOSE GUARD MAST
11	4	AH206	WIRE / HOSE CRADLE
12	2	LDX-0315-4	GUARD MAIN SHORT
13	1	LDX-0292-4	GUARD, REAR PANEL E
14	1	LDX-0316-4	GUARD, ELECT BOX
15	1	LDX-0319-4	GUARD MAIN LONG
16	1	LDX-0317A-4	GUARD, PNEU PANEL (BLANK)
17	1	LDX-0318-4	GUARD, HOSE GUARD
18	2	SPH-1398	HOLE PLUG
19	4	LDX-0037-4	BELT GUIDE
20	12	FFHMG025P10	FLAT HEAD SCREW M6 X 25
21	1	LDX-0019-4	GUARD, DRIVE
22	4	LDU-1163-3	CARTRIDGE STAND OFF
23	4	FSHMI035P88	SHCS M10x30
24	1	LDX-0228-4	PHOTOEYE BRKT
25	2	LDX-0044-3SS	STUD, JACKING
26	2	LDX-0045A-3	STUD, RING
27	2	FSHMH020P10	SHCS M8 X 20
28	4	SPH-1400	WASHER, LARGE OD
29	4	LDX-0045-3	STUD, RING
30	4	FNLNMHP	NYLOCK NUT M8
31	12	SPH-1404	screw M6x20mm LG.
32	8	SPH-1420	CABLE TIE HOLDER (PUSH STYLE)
33	4	SPH-1406	TUBE CAP
34	1	LDX-0292A-4	GUARD, REAR PANEL E
35	1	LDX-0317-4	GUARD, PNEU PANEL
36	2	FNLNMGP	NYLOCK NUT M6
37	2	FSHMG040P10	SHCS M6 X 1.0 X 40 LG.
38	4	FHDNMFP	HEX DOME NUT M5
39	4	FLWMFP	LOCK WASHER M5
40	4	AH202B	CABLE TIE, 5.6" LONG
41	4	FBHMF012P10	HEX SOC. BUTT. HD. SCREW

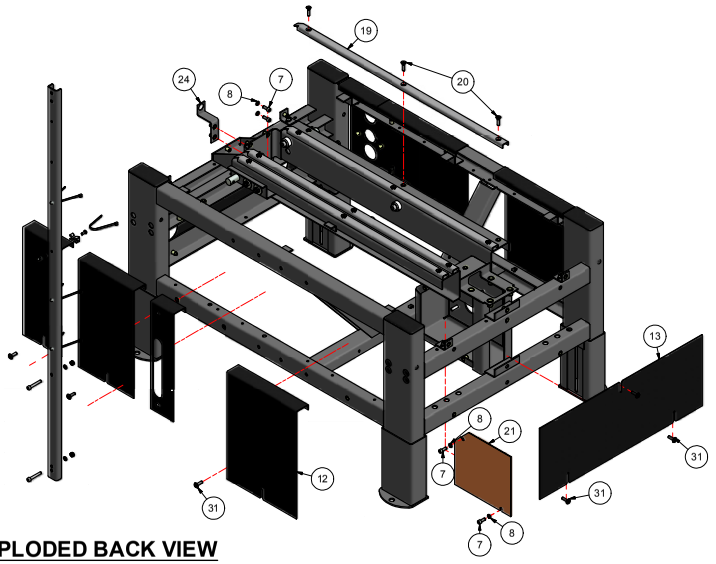
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	12/1/2010	TONYS



EXPLODED FRONT VIEW



ASSEMBLED VIEW



EXPLODED BACK VIEW

MATL	PART #	CAD FILE LD-RTB FRAME WELDMENT 2.0	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE 12/1/2010	
ST. ST.	N/A	DRAWN DATE 12/1/2010	X ±1.050 INCH XX ±0.10 XXX ±0.005 ANGLES ± 1/2°
STAINLESS : NO FINISH		DO NOT SCALE PRINT	X ±1.0mm METRIC XX ±0.3mm XXX ±0.1mm MACH. FINISH √
			FRACTIONS ± 1/64

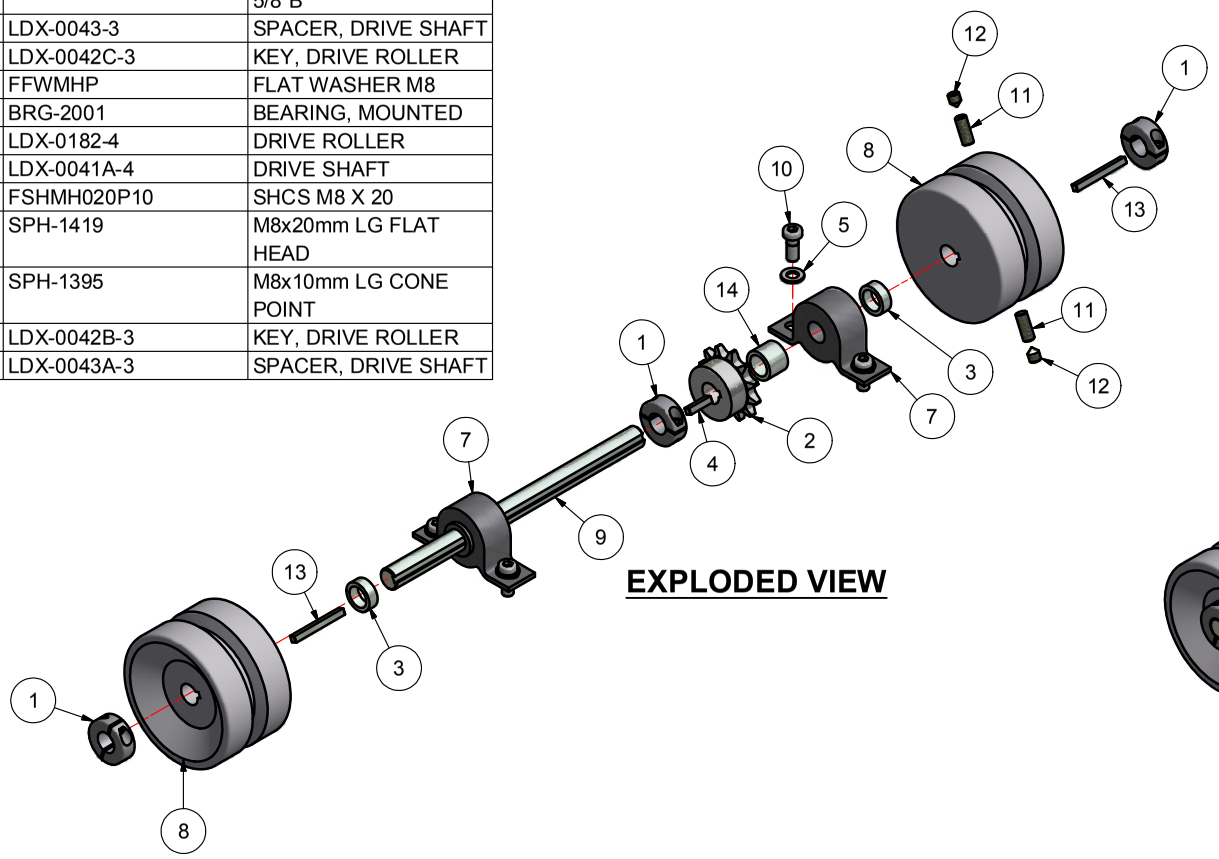
LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE: LDXRTB FRAME WELDMENT

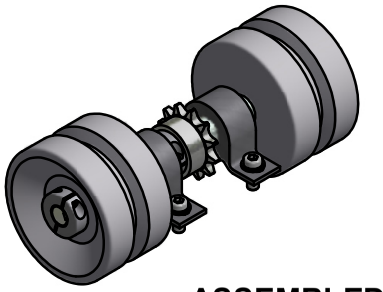
DWG NO	LDXRTB FRAME WELDMENT 2.0	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	PSX9999	SPLIT COLLAR 5/8"
2	1	SPK-0023	SPROCKET 40P/ 12T/ 5/8"B
3	2	LDX-0043-3	SPACER, DRIVE SHAFT
4	1	LDX-0042C-3	KEY, DRIVE ROLLER
5	4	FFWMHP	FLAT WASHER M8
7	2	BRG-2001	BEARING, MOUNTED
8	2	LDX-0182-4	DRIVE ROLLER
9	1	LDX-0041A-4	DRIVE SHAFT
10	4	FSHMH020P10	SHCS M8 X 20
11	4	SPH-1419	M8x20mm LG FLAT HEAD
12	4	SPH-1395	M8x10mm LG CONE POINT
13	2	LDX-0042B-3	KEY, DRIVE ROLLER
14	1	LDX-0043A-3	SPACER, DRIVE SHAFT

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	1/25/2011	TONYS



EXPLODED VIEW



ASSEMBLED VIEW

MAT'L	PART #	CAD FILE	LDXRTB DRIVE ROLLER ASSY 2.0.IDW
NOTED	STD	PLOT DATE	1/25/2011
ST. ST.	N/A	DRAWN DATE	1/24/2011
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:

INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°

METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm, MACH. FINISH 125

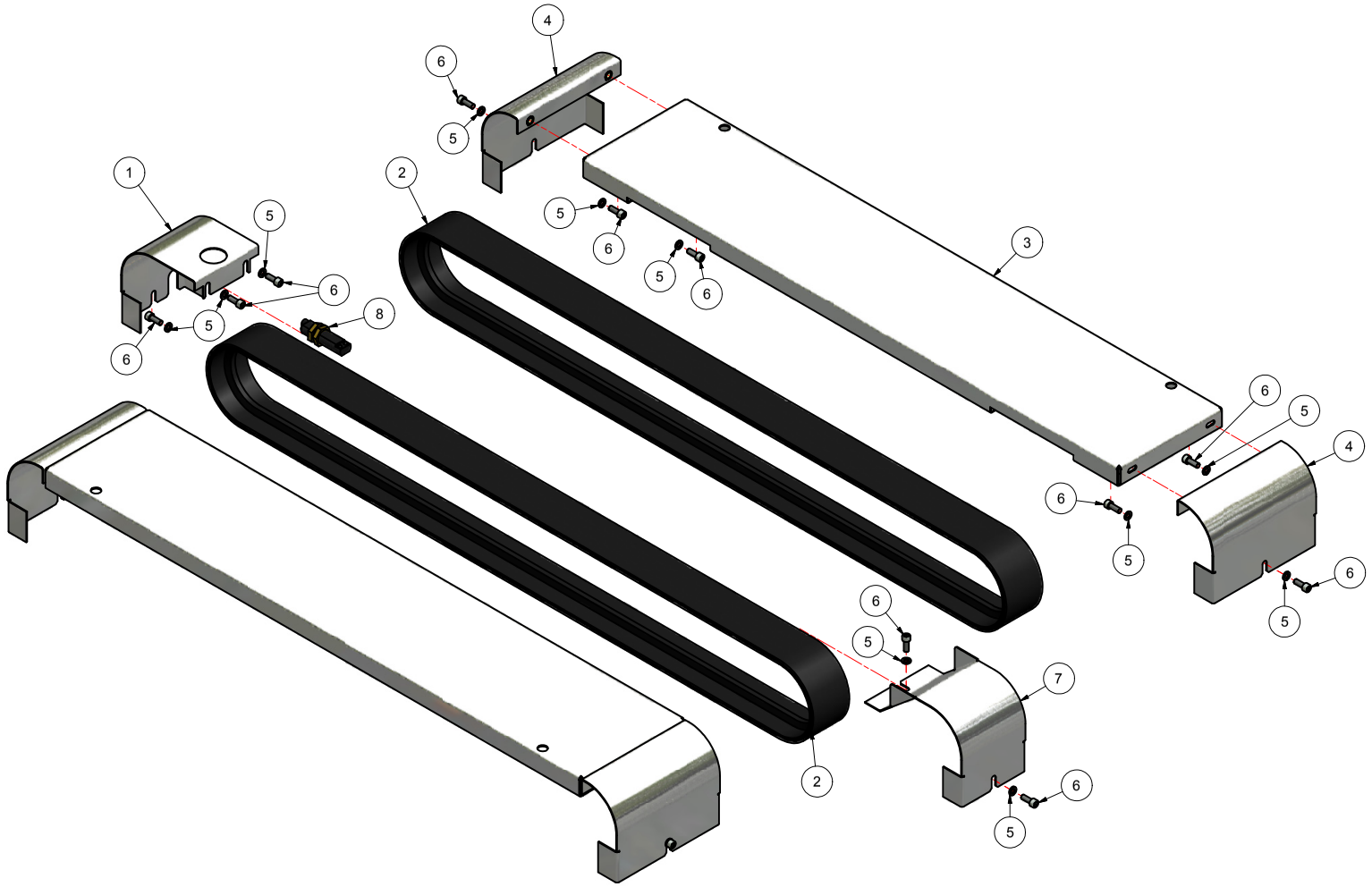
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE LDXRTB DRIVE ROLLER ASSY 2.0

DWG NO	LDXRTB DRIVE ROLLER ASSY 2.0	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	12/7/2010	TONYS



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LDX-0229-4	GUARD DRIVE BOTTOM FRT
2	2	LDX-0048B-4	BELT
3	2	LDX-0036-5	BOX GUIDE FILL (TOP)
4	4	LDX-0034-4	BOX GUIDE FILL (END)
5	17	FFWMGP	FLAT WASHER M6
6	17	FSHMG016P10	SHCS M6x16 LG.
7	1	LDX-0230-4	GUARD, BOTTOM DRIVE LB
8	1	A219-CH-2	PHOTOEYE

MAT'L	PART #	CAD FILE	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE 12/7/2010	
ST. ST.	N/A	DRAWN DATE 12/7/2010	.X = ±.050 INCH .XX = ±.015 .XXX = ±.005 ANGLES ± 1/2°
STAINLESS : NO FINISH		DO NOT SCALE PRINT	.X = ±1.0mm METRIC .XX = ±.3mm .XXX = ±.1mm MACH. FINISH 125
			FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

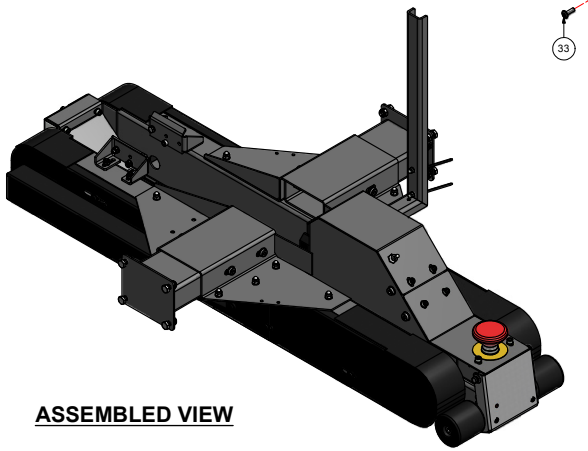
TITLE .BDA/LDXRTB/W

DWG NO		SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

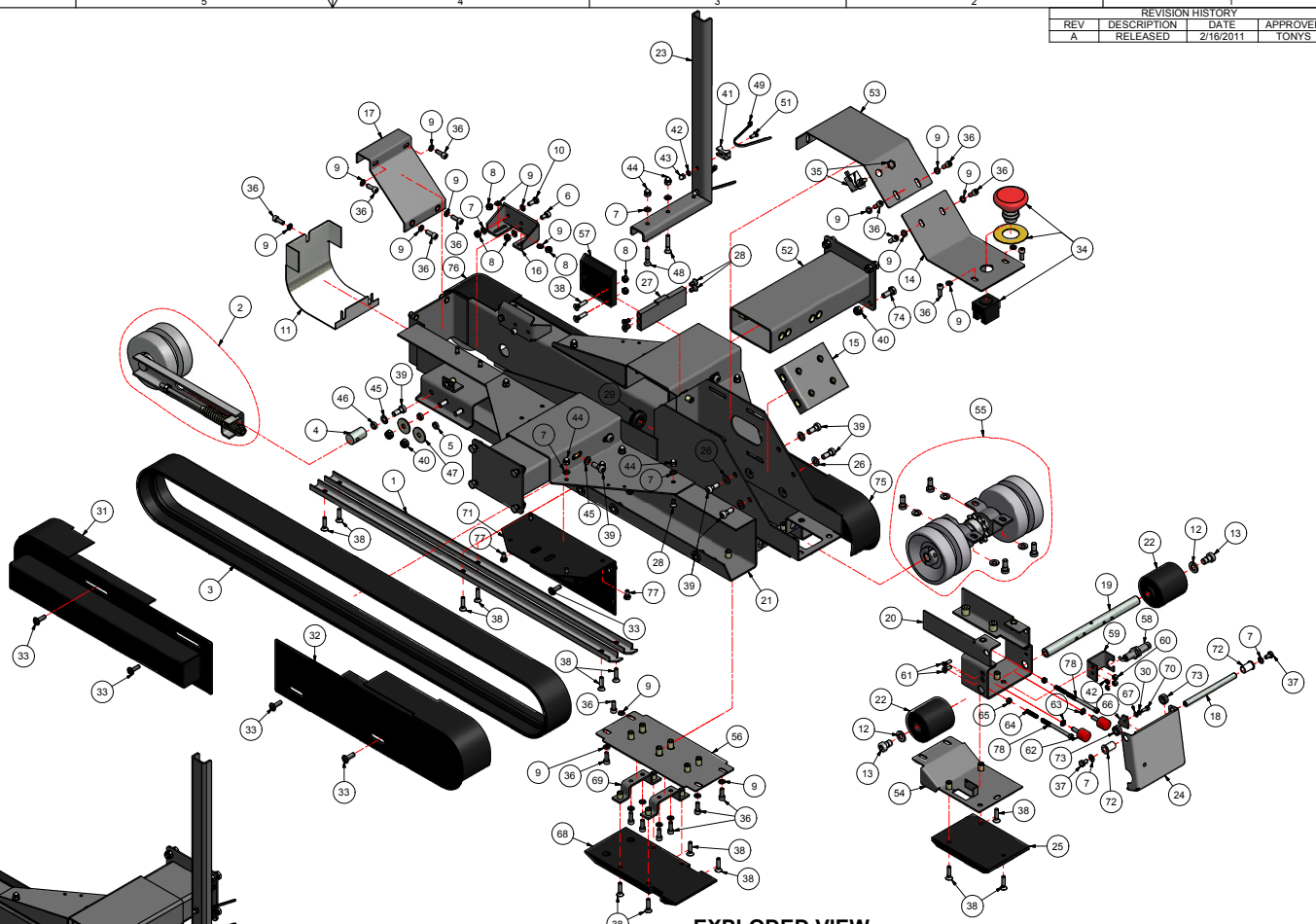
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	2/16/2011	TONYS

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	LDX-0037-4	BELT GUIDE
2	2	.BTA/LDXRTB	LDXRTB BELT TENSIONER ASSY
3	2	LDX-0048B-4	BELT
4	2	LDX-0044-3SS	STUD, JACKING
5	4	LDX-0045-3	STUD, RING
6	2	FSHMG012P10	SHCS M6 X 1.0 X 12 LG.
7	23	FLWMGP	LOCK WASHER M6
8	12	FNLNMGP	NYLOCK NUT M6
9	27	FFWMGP	FLAT WASHER M6
10	2	FHHMG016P10	HHCS M6 X 16
11	1	LDX-0035-4	GUARD, DRIVE TOP
12	2	FFWMIP	FLAT WASHER M10
13	2	FSHMI016P88	SOC. HD. CAP SCREW M10 X 16
14	1	LDX-0093-4	GUARD, TD FRT
15	1	LDX-0094-4	SPACER, MOTOR BASE
16	2	LDX-0097-4	BRKT., CART MOUNT TD REAR
17	1	LDX-0098-4	GUARD, TD REAR TOP
18	1	LDX-0102-3	SHAFT, PADDLE
19	1	LDX-0103-3	SHAFT, NOSE ROLLER
20	1	LDX-0105-4	NOSE SWITCH BASE WELDMENT
21	1	LDX-0124-6	FRAME, TD WELDMENT
22	2	LDX-0104A-3	ROLLER, NOSE
23	1	LDU-1516-4	WIRE GUARD (HEAD)
24	1	LDX-0351-4	NOSE PADDLE NC
25	1	LDX-0355-4	FILL PLATE, HEAD FRT
26	4	FFWMHP	FLAT WASHER M8
27	1	LDX-0177-3	TOP LOAD BLOCK
28	11	FFHMG012P10	FHCS M6x12 LG.
29	1	SPH-1403	GROMMET
30	1	FLWMEP	LOCK WASHER M4
31	1	LDX-0391L-4	GUARD REAR TD
32	1	LDX-0393R-4	GUARD FRONT TD
33	10	SPH-1404	screw M6x20mm LG.
34	1	ED2069	E-STOP ASSY.
35	1	N630	TOGGLE LEVER VALVE MECH.
36	21	FSHMG016P10	SHCS M6x16 LG.
37	2	FHHMG010P10	HHCS M6 X 10
38	23	FFHMG025P10	FLAT HEAD SCREW M6 X 25
39	14	FSHMH020P10	SHCS M8 X 20
40	12	FNLNMHP	NYLOCK NUT M8
41	2	AH206	WIRE / HOSE CRADLE
42	4	FLWMFP	LOCK WASHER M5
43	2	FHDNMFP	HEX DOME NUT M5
44	17	FHDNMGP	HEX DOME NUT M6
45	10	FLWMHP	LOCK WASHER M8
46	2	LDX-0045A-3	STUD, RING
47	4	SPH-1400	WASHER, LARGE OD
48	2	FFHMG035P10	FHSC M6x35 LG.
49	2	AH202B	CABLE TIE, 5.6" LONG
50	3	SPH-1420	CABLE TIE HOLDER (PUSH STYLE)
51	2	FBHMF012P10	HEX SOC. BUTT. HD. SCREW
52	2	LDX-0077-4	NECK, MAST
53	1	LDX-0397-4	GUARD, TD TOP
54	1	LDX-0235-4	SLIDE SPACER,SUPPORT LB
55	1	LDXRTB DRIVE ROLLER ASSY 2.0	
56	1	LDX-0234-4	GUARD, TD BOTTOM LB
57	2	LDX-0343-4	CART. FILL PLATE
58	1	A219-CH-3	PROX 12mm AC
59	1	LDX-0347-3	BRKT. FRONT PROX
60	2	FHFNMFP	HEX NUT M5
61	2	FFHMF016P10	FLAT HEAD CAP SCREW M5 X 16 LG.
62	2	SPH-1458	BUMPER
63	2	FHJNMGP	M6 HEX JAM NUT
64	2	SPR-1068	SPRING, NOSE PADDLE
65	2	FNLNMFS	M5 NYLON LOCKING NUT
66	1	LDX-0352-3	TARGET NC PADDLE
67	1	FFWMEP	FW M4
68	1	LDX-0353-4	FILL PLATE, HEAD
69	2	LDX-0069-4	GUARD SUPPORT
70	1	FSHME012P10	M4-0.7 x 12mm SHCS
71	2	LDX-0381-4	GUSSET, TOP DRIVE
72	2	BSG-1109	BUSHING
73	2	LDX-0145-3	SPACER, NOSE PADDLE
74	8	FHHMH020P10	HHCS M8 X 20
75	1	LDX-0391R-4	GUARD FRONT TD
76	1	LDX-0393R-4	GUARD REAR TD
77	8	FHHMG012P10	HHCS M6 X 12
78	2	FSHMF070S10	SOC HD SCREW M5x70 LG. S.S.



ASSEMBLED VIEW



EXPLODED VIEW

MAT'L	PART #	CAD FILE	
NOTED	STD	PLOT DATE 2/16/2011	
ST. ST.	N/A	DRAWN DATE 2/16/2011	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:

FRACTIONS ± 1/64

X. ±.050
INCH .XX ±.015
.XXX ±.005
ANGLES ± 1/2°

.X ±1.0mm
METRIC .XX ±.3mm
.XXX ±.1m m

MACH. FINISH

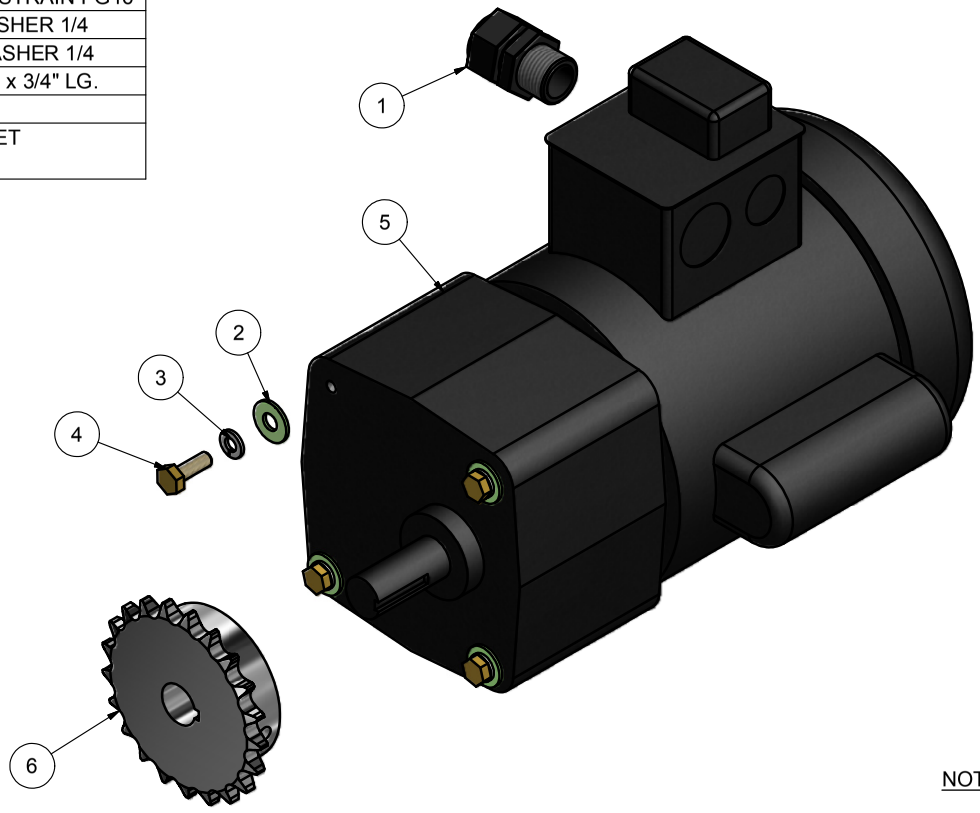
LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE: LDXRTB TOP DRIVE ASSY 2.0W

DWG NO.		SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	AH199G	FITTING, STRAIN PG16
2	4	FFWSDP	FLAT WASHER 1/4
3	4	FLWSDP	LOCK WASHER 1/4
4	4	FHHSG075P08	HH 1/4-28 x 3/4" LG.
5	1	SEE MOTOR CHART	MOTOR
6	1	SEE SPROCKET CHART	SPROCKET

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	3/15/2010	TONYS



NOTE:
See motor chart for motor part number.
See sprocket chart for sprocket part number.

MAT'L	PART #	CAD FILE LDXRTB MOTOR ASSY manual.idw	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE 3/15/2010	.X = ±.050 INCH .XX = ±.015 ANGLES ± 1/2° .XXX = ±.005
ST. ST.	N/A	DRAWN DATE 3/15/2010	.X = ±1.0mm METRIC .XX = ±.3mm MACH. FINISH 125 .XXX = ±.1mm
STAINLESS : NO FINISH		DO NOT SCALE PRINT	FRACTIONS ± 1/64

LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE	LDXRTB motor & sprocket information
DWG NO	LDXRTB MOTOR ASSY manual
REV	n/a
MATERIAL	NOTED
CHECKED	
DRAWN	tonys
APPROVED	TONYS

DRIVE MOTOR – SPROCKET OPTIONS

Note: Refer to drawing previous page

Motor Selection:

Part number	Description	Position
50100-054	1/6 hp gear motor 120V-240V/50-60Hz	Top drive
50100-053	1/3 hp gear motor 120V-240V/50-60Hz	Bottom drive

Part number	Description	Position
50100-057	1/6 hp gear motor 380V-440V/50-60Hz 3PH	Top drive
50100-056	1/3 hp gear motor 380V-440V/50-60Hz 3PH	Bottom drive

Drive Motor Sprocket Selection:

Part number	Belt Speed – Feet per minute	Electrical frequency - Hz
SPK-0119	115 ft/min	60 Hz
SPK-0130	155 ft/min	60 Hz

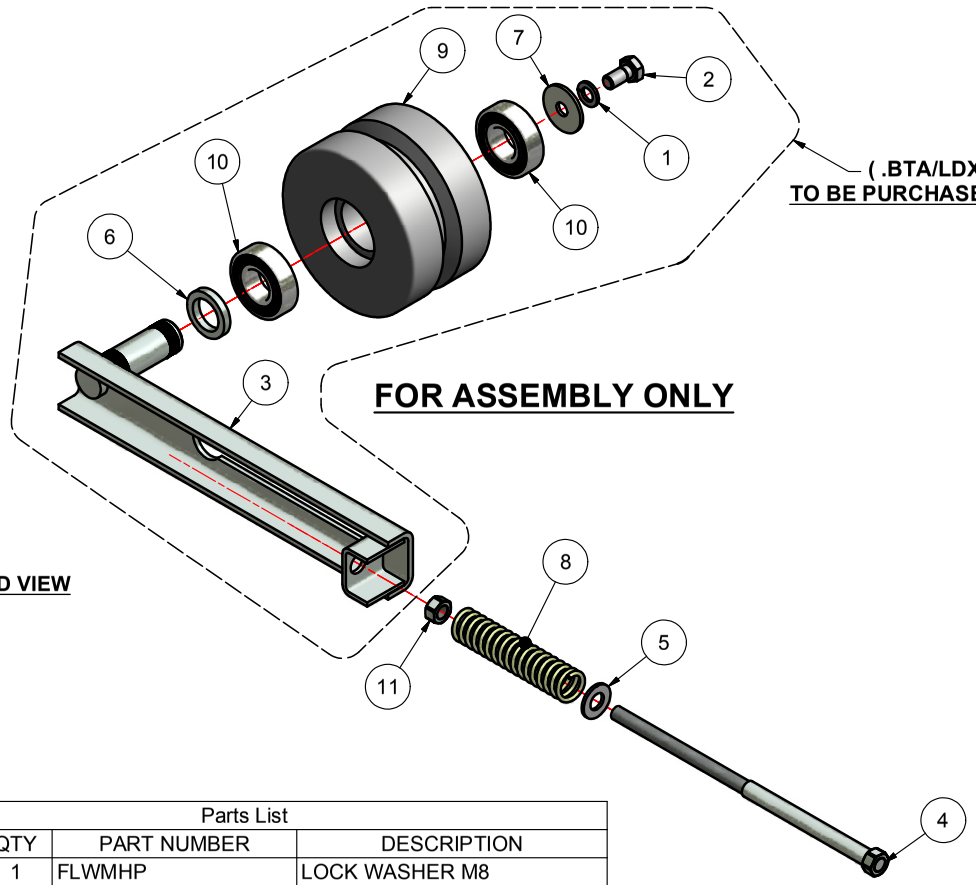
Part number	Belt Speed – Feet per minute	Electrical frequency - Hz
SPK-0128	115 ft/min	50 Hz
SPK-0133	155 ft/min	50 Hz

Note: When changing sprockets to modify belt speed it is necessary to change the overall length of the drive chain.

Belt speed	Bottom Drive	Top drive
115 ft/min	Full links – 21, Master link – 1	Full links – 25, Half links - 1 Master link – 1
155 ft/min	Full links – 22, Master link – 1	Full links – 25, Master link – 1

Part numbers: #40 Chain – HC102 Half link – HC302 Master Link – HC202

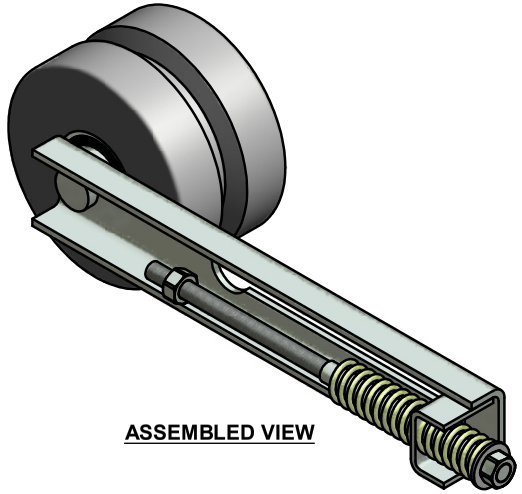
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	8/31/2009	TONYS
B	UPDATED	1/13/2011	TONYS



(.BTA/LDXRTB/B)
TO BE PURCHASED AS COMPLETE ASSY.

FOR ASSEMBLY ONLY

EXPLODED VIEW



ASSEMBLED VIEW

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	FLWMHP	LOCK WASHER M8
2	1	FHHMH016P10	HHCS M8 X 16
3	1	LDX-0113-4SS	BAR, TENSIONER
4	1	LDX-0112-4SS	SHAFT, JACKING
5	1	FFWSFP	FLAT WASHER 3/8
6	1	LDX-0117-3	RING, TENSIONER SPACER
7	1	SPH-1400	WASHER, LARGE OD
8	1	PSC301232	SPRING
9	1	LDX-0168-4	IDLER, ROLLER
10	2	BRG-2003A	BEARING
11	1	FHFNMHP	HEX NUT, M8

MAT'L	PART #	CAD FILE	LDXRTB BELT TENSIONER ASSY.idw
NOTED	STD	PLOT DATE	8/29/2009
ST. ST.	N/A	DRAWN DATE	8/31/2009
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:

.X = ±.050
INCH .XX = ±.015 ANGLES ± 1/2°
.XXX = ±.005

.X = ±1.0mm
METRIC .XX = ±.3mm MACH. FINISH 125
.XXX = ±.1mm

FRACTIONS ± 1/64

LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

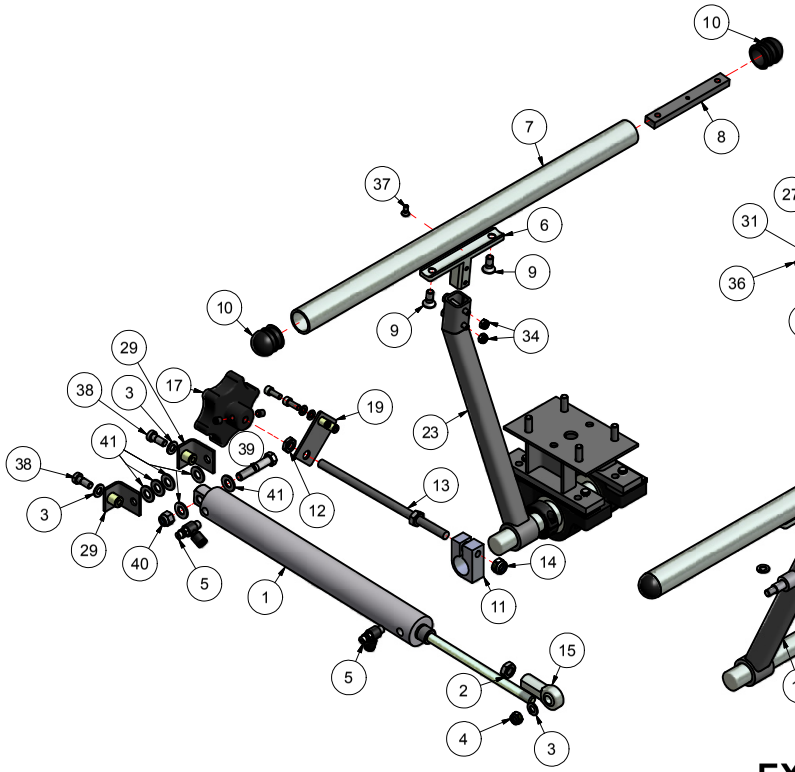
TITLE
.BTA/LDXRTB

DWG NO	.BTA/LDXRTB	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	tonys	APPROVED	TONYS

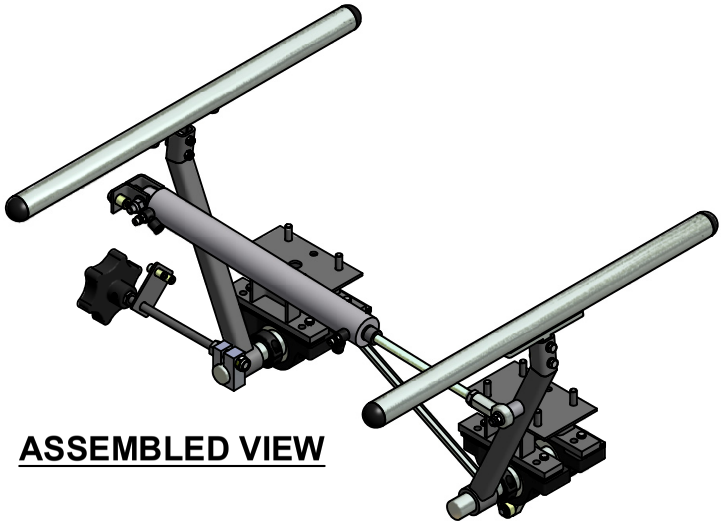
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	6/27/2011	TONYS

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	N401-342	CYLINDER
2	1	FHJNSMP	7/16-20 HEX JAM NUT
3	3	FFWMHP	FLAT WASHER M8
4	1	FNLNMHP	NYLOCK NUT M8
5	2	N400-183	SPEED CONTROL, 90 DEG
6	2	LDX-0049-4	SIDERAIL TUBE TEE
7	2	LDX-0047-4	SIDE RAIL TUBE
8	2	LDX-0065-3	NUT PLATE, SR
9	4	FFHMH020P10	FLAT HEAD CAP SCREW M8 X 20 LG.
10	4	SPH-1409	PLUG, BALL HEAD
11	1	LDX-0210-4	BLOCK, LOCK
12	1	FHJNMIP	HEX JAM NUT, M10, PLATED
13	1	LDX-0212-3	LOCK ROD SIDERAIL
14	1	FNLNMIP	NYLOCK NUT M10
15	1	SPH-1394	ROD END
16	2	FSSMH010B88	SS M8 x 10mm LG.
17	1	PSU166-4	HAND KNOB
18	1	LDX-0398-5	SR ARM WELDMENT RH (M)
19	1	LDX-0259-3	SR LOCK SUPPORT
20	2	FSHMG016P10	SHCS M6x16 LG.
21	10	FLWMGP	LOCK WASHER M6
22	8	FLWMHP	LOCK WASHER M8
23	1	LDX-0399-5	SR ARM WELDMENT LH (M)
24	1	LDX-0322-4	LINK BAR RH/LH
25	1	PSC552	SPHERICAL ALIGN BEARING
26	1	FHJNSIP	HEX JAM NUT, 5/16-24
27	1	PSC552LH	SPHERICAL ALIGN BEARING (LH)
28	1	SPH-1445	NUT LH 5/16-24
29	2	LDX-0261-3	SR CYL MOUNT ANGLE
30	1	LDX-0359-4	CLAMP LINK BAR
31	2	FFWMFP	FLAT WASHER M5
32	1	LDX-0360-4	CLAMP LINK BAR
33	2	SPH-1395	M8x10mm LG CONE POINT
34	4	FNLNMGP	NYLOCK NUT M6
35	4	FHHMG035P10	HHCS M6 X 35
36	2	FHHMF008P10	HH M5x8 mm LG.
37	2	FFHMF012P10	FHCS M5 X 0.8 X 12 LG.
38	2	FSHMH020P10	SHCS M8 X 20
39	1	FHHSJ200P05	HEX BOLT 3/8-16 X 2
40	1	FNLNSJP	3/8 Std NC Nylock Nut
41	6	FFWSFP	FLAT WASHER 3/8
42	2	LDX-0384-4	SR BEARING SUPPORT BASE
43	8	LDX-0383A-3	SHIM, BEARING
44	8	LDX-0383B-3	SHIM, BEARING
45	8	LDX-0383-3	SHIM, BEARING
46	4	BRG-2014M	BEARING 25mm PILLOW BLOCK
47	8	FFWMIP	FLAT WASHER M10
48	8	FLWMIP	LOCK WASHER M10
49	8	FHHMH025P10	HHCS M8 X 25
50	4	SPC-1004	COLLAR FULL SPLIT 1" BORE
51	8	FHHMI040P88	HEX HD M10-1.25 x 40mm LG.
52	4	FLWSDP	LOCK WASHER 1/4
53	4	FSHSG150B08	SOC HD 1/4-28 x 1 1/2 lg.



EXPLODED VIEW



ASSEMBLED VIEW

MAT'L	PART #	CAD FILE	
NOTED	STD	PLOT DATE 6/27/2011	
ST. ST.	N/A	DRAWN DATE 6/27/2011	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:

INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°

METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm, MACH. FINISH 125

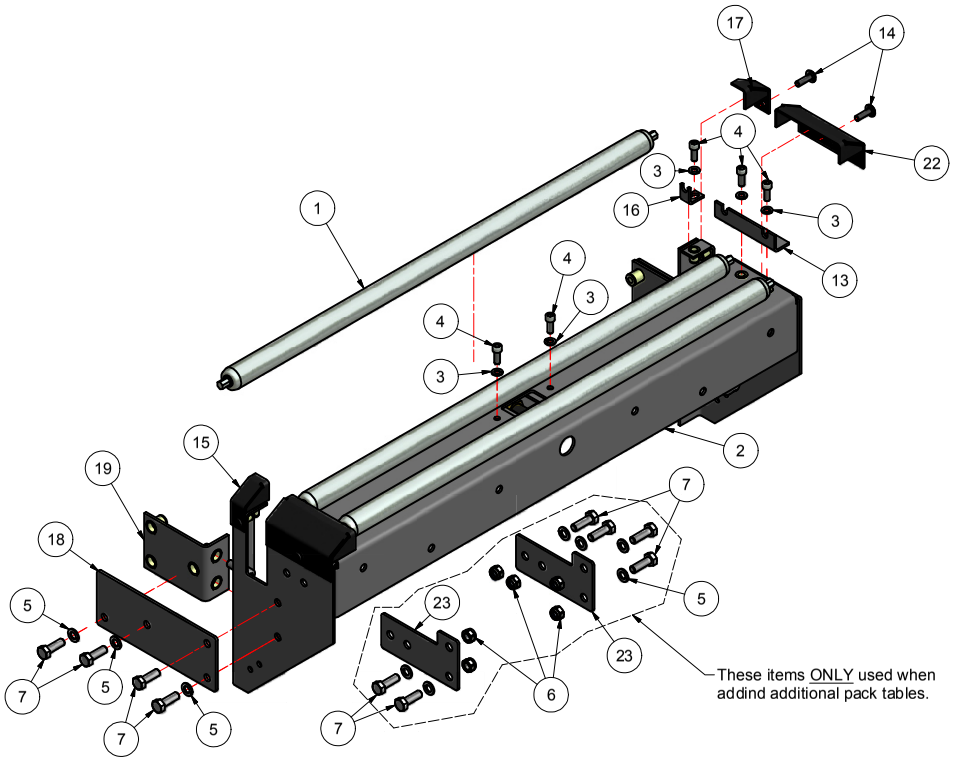
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

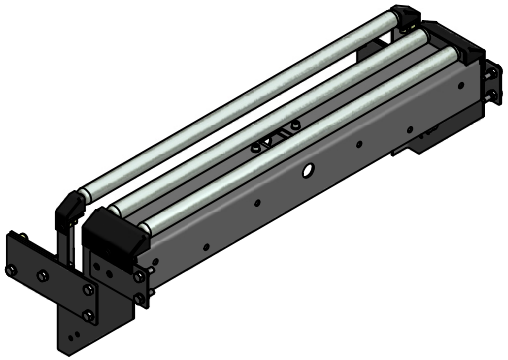
TITLE .SRA/LDXRTB/WM

DWG NO		SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

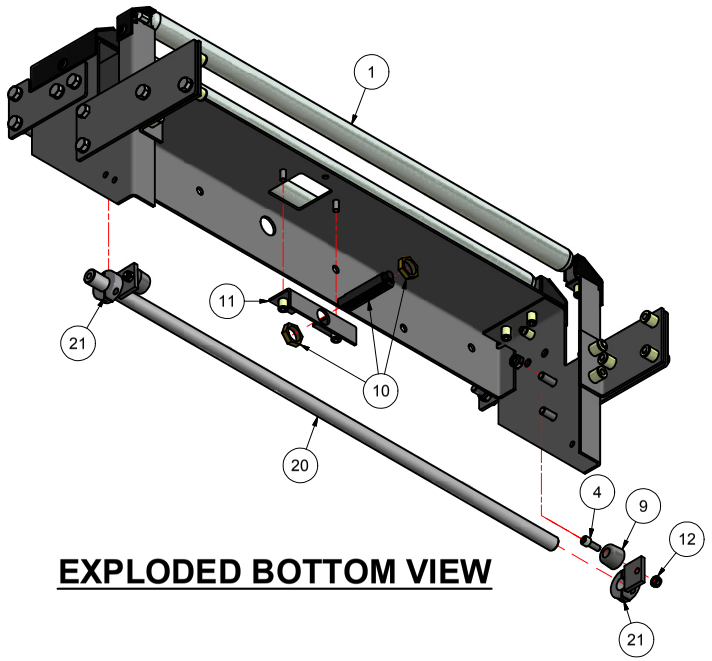
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	11/22/2010	TONYS



EXPLODED TOP VIEW



ASSEMBLED VIEW



EXPLODED BOTTOM VIEW

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	CR-1010A	ROLLER
2	1	LDX-0245-5	BASE, INFEED ROLLER ASSY.
3	8	FLWMGP	LOCK WASHER M6
4	10	FSHMG016P10	SHCS M6x16 LG.
5	12	FLWMHP	LOCK WASHER M8
6	8	FNLNMHP	NYLOCK NUT M8
7	14	FHHMH025P10	HHCS M8 X 25
8	2	FSHMH025P10	SHCS M8x25
9	2	F3MB	RUBBER BUMPER
10	1	A219-CH-2	PHOTOEYE
11	1	LDX-0203-3	BRACKET, PE ANGLE
12	2	FNLNMGP	NYLOCK NUT M6
13	2	LDX-0253-3	ANGLE, ROLLER SUPPORT MED
14	4	SPH-1404	screw M6x20mm LG.
15	1	LDX-0251L-3	CAP, ROLLER FLANGED SM
16	2	LDX-0252-3	ANGLE, ROLLER SUPPORT SM
17	1	LDX-0251R-3	CAP, ROLLER FLANGED SM
18	2	LDX-0248-3	TIE PLATE
19	2	LDX-0249-3	NUT PLATE
20	1	LDX-0254-3	ROD, SR ADJ. STOP
21	2	LDX-0255-4	STOP SR ADJ COLLAR
22	2	LDX-0250-3	CAP, ROLLER FLANGED
23	2	LDX-0390-4	SUPPORT PLATE , PACK TABLE

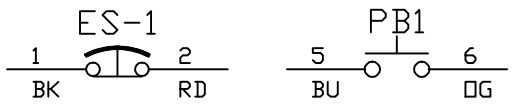
MAT'L	PART #	CAD FILE	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE 11/23/2010	
ST. ST.	N/A	DRAWN DATE 11/23/2010	.X = ±.050 INCH .XX = ±.015 ANGLES ± 1/2° .XXX = ±.005
STAINLESS : NO FINISH		DO NOT SCALE PRINT	.X = ±1.0mm METRIC .XX = ±.3mm MACH. FINISH .XXX = ±.1mm

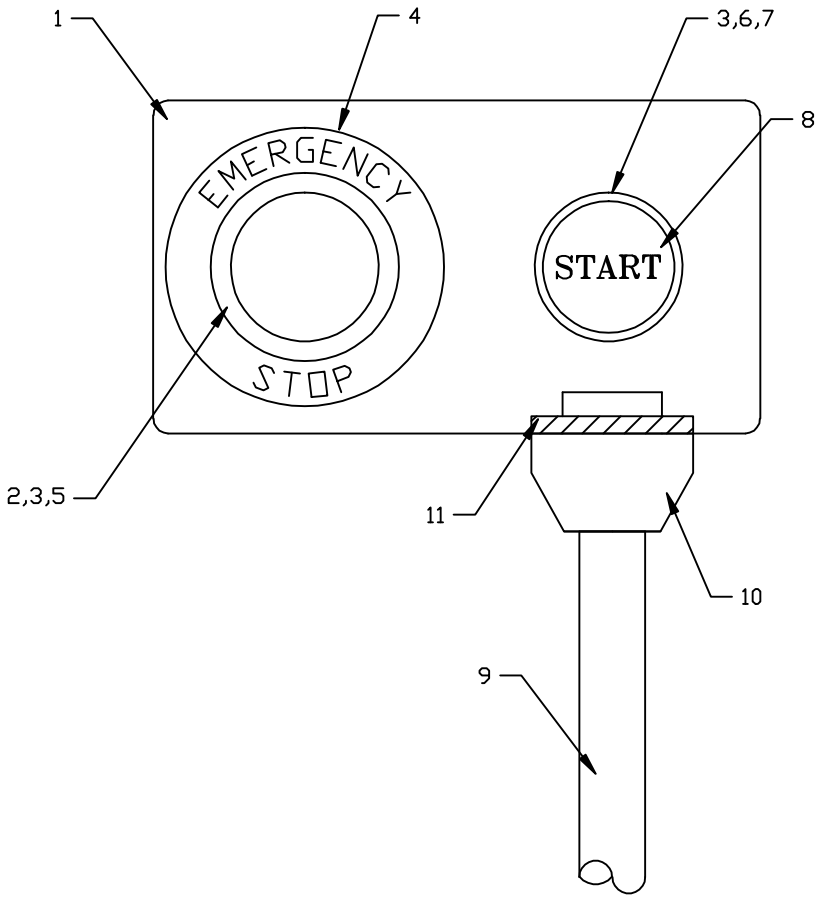
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE: LDXRTB PACK TABLE ASSY SHORT

DWG NO	LDXRTB PACK TABLE ASSY SHORT 1 0 Rev2	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS





KEY	PART NUMBER	DESCRIPTION
1	A149-HAM-2-22MM	PUSH BUTTON ENCLOSURE
2	SS8-C-D7	E-STOP OPERATOR
3	SS8-E-D7	COUPLING PLATE
4	SS8-F-D7	E-STOP LEGEND PLATE
5	SS8-B-D7	CONTACT BLOCK - N.C.
6	SS8-D-D7	MOMENTARY PUSHBUTTON
7	SS8-A-D7	CONTACT BLOCK - N.O.
8	SS8-G-D7	START PRESS PLATE
9	A18-4/TC	4 CONDUCTOR CABLE (7 FT)
10	AH119D	STRAIN RELEIF
11	AH119D-N	LOCK NUT
N/S	SPH-1393	ENCASED ROUND MAGNETS
N/S	FPHSB050P08	PAN HEAD SCREW 8/32X1/2"
N/S	FLWSBP	LOCK WASHER #8
N/S	FHFNSBP	HEX NUT 8/32

TOLERANCES EXCEPT AS NOTED	***THE LOVESHAW CORPORATION*** RT 296, SOUTH CANAAN, PA.	
DECIMAL (3 PLC) +/- .005	TITLE: PUSH BUTTON STATION ASSY. LDXRTB	
FRACTIONAL +/- 1/64	DWG. NO. ED2092	SCALE: 1 : 1
	MATERIAL: COMMERCIAL	DATE: 08/20/09
ANG. - 1/2°	DESIGNED: MENTA / DRAWN: WM	APPRVD: --

THE LOVESHAW CORPORATION
RT 296, SOUTH CANAAN, PA.
TITLE: ELECTRICAL SCHEMATIC
LDXRTB -120/1/60 NON CONTACT
DWG. NO.ED2238
SCALE: N/A
MATERIAL: N/A
DATE:01/14/11
DESIGNED: MENTA
DRAWN: WM
APPRVD: --
TOLERANCES EXCEPT AS NOTED
DECIMAL (3 PLC) +/- .005
FRACTIONAL +/- 1/64
ANG. - 1/2°
WIRING NOTES:
1. WIRE COLORS ARE AS NOTED.
2. AC CONTROL WIRE RED 18AWG.
3. MOTOR CABLE IS 18AWG 3 COND.
WIRE CONNECTION KEY
100 TERMINAL BLOCK LOCATED ON TERMINAL STRIP.
100 WIRE CONNECTION ON ELECTRICAL COMPONENT.
INCOMING POWER 120/1/60 15 AMPS
MAIN POWER FUSE PROTECTION
BOTTOM DRIVE MOTOR 1/3 HP GEAR MOTOR 85 RPM
TOP DRIVE MOTOR 1/6 HP GEAR MOTOR 85 RPM
CONTROL POWER FUSE PROTECTION
E-STOP CIRCUIT
BOTTOM DRIVE MOTOR STARTER 104, 113,
TOP DRIVE MOTOR STARTER 105, 113, 114, 212
SIDE RAILS VALVE
CONTROL RELAY (115, 118)
OPTIONAL FEATURE TOP CARTRIDGE VALVE
HEAD RAISING VALVE
MAIN AIR DUMP
5D CORD 14 AWG 3 CONDUCTOR 300V
F1 15 A
F2 1A
ES-1
ES2
DL1
DL2
PB1 START
MS1
MS2
M1 1/3 HP
M2 1/6 HP
SV1
SV2
SV3
SV4
CR1
PE1
PE2
PE1A
PRDX1
WT 14AWG
BK 14AWG
RD 14AWG
1L1
N
100
101
102
103
104
105
106
107
108
109
110
111
112
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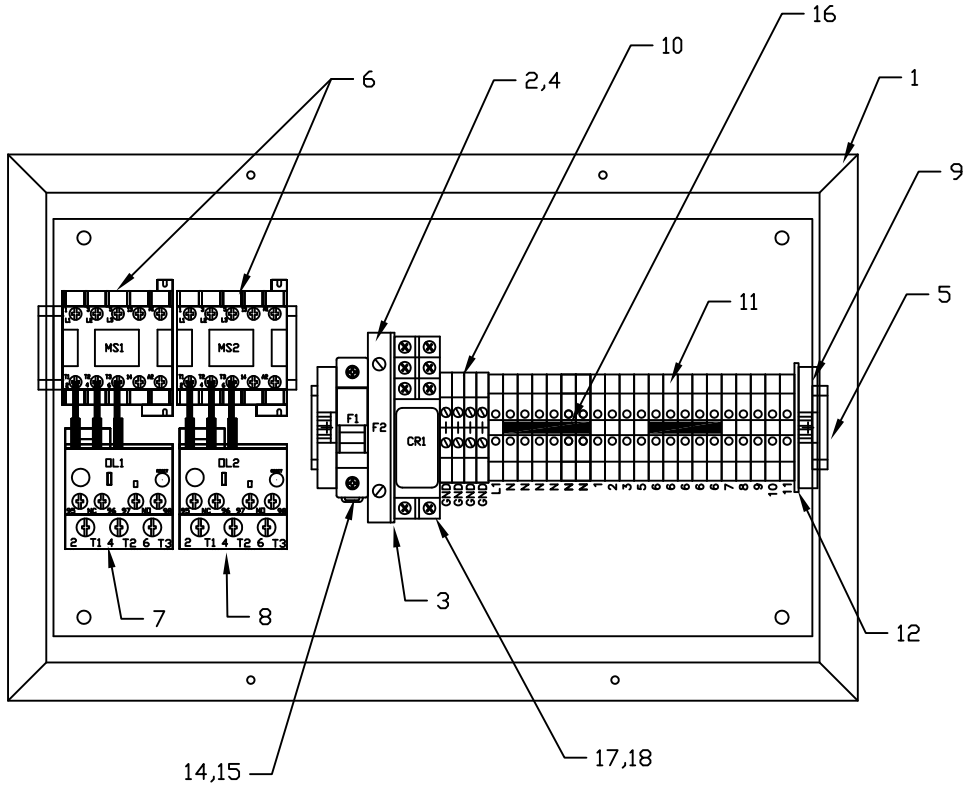
120

REVISION RECORD					
REV	DESCRIPTION	DATE	ATH	DR	CK
A	RELEASED	03/11			



KEY	PART NUMBER	PART DESCRIPTION
1	ED2062	ENCLOSURE & PANEL
2	SS6-FUSE	FUSE HOLDER
3	SS6-FUSE-EB	FUSE HOLDER BARRIER
4	A125SB-1-326	FUSE 1 AMP SLOW BLO
5	SS6-L-1	DIN RAIL
6	SS2-A-1	CONTACTOR
7	SS3-J-1	OVERLOAD 5.5-7.5A
8	SS3-C-1	OVERLOAD 3.5 - 4.8A
9	SS6-C	TERMINAL ANCHOR
10	SS6-B	GROUND TERMINAL
11	SS6-TB1	TERMINAL BLOCK SINGLE
12	SS6-A1	SINGLE TERM. SEPARATOR
13	SS6-MC	TERM. MARKING CARD
14	SS6-FUSE-1	FUSE HOLDER
15	A125SB-15	FUSE, 15 AMPS
16	SS6-D-5	TERMINAL JUMPER 10 POLE
17	A183-ID-3	RELAY
18	A184-ID-3	RELAY BASE

TOLERANCES EXCEPT AS NOTED	*THE LOVESHAW CORPORATION* RT 296, SOUTH CANAAN, PA.	
DECIMAL (3 PLC) +/- .005	TITLE: ELECTRICAL PANEL ASSEMBLY LDXTB - 120/1/60	
FRACTIONAL +/- 1/64	DWG. NO. ED2262	SCALE: 1 : 2
	MATERIAL: COMMERCIAL	DATE: 03/23/11
ANG. - 1/2°	DESIGNED: WM / DRAWN: MENTA	APPRVD: --

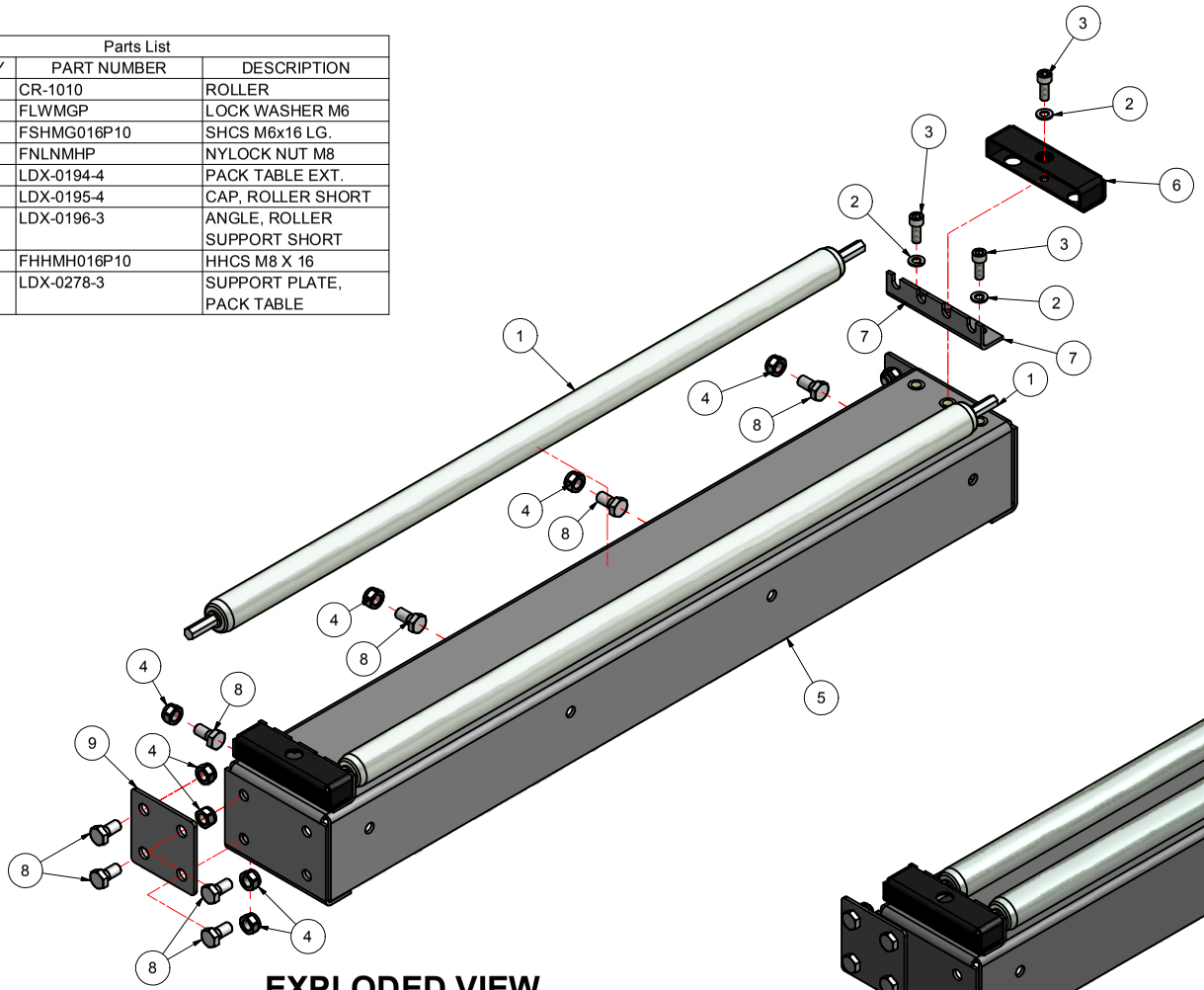
Chapter

11

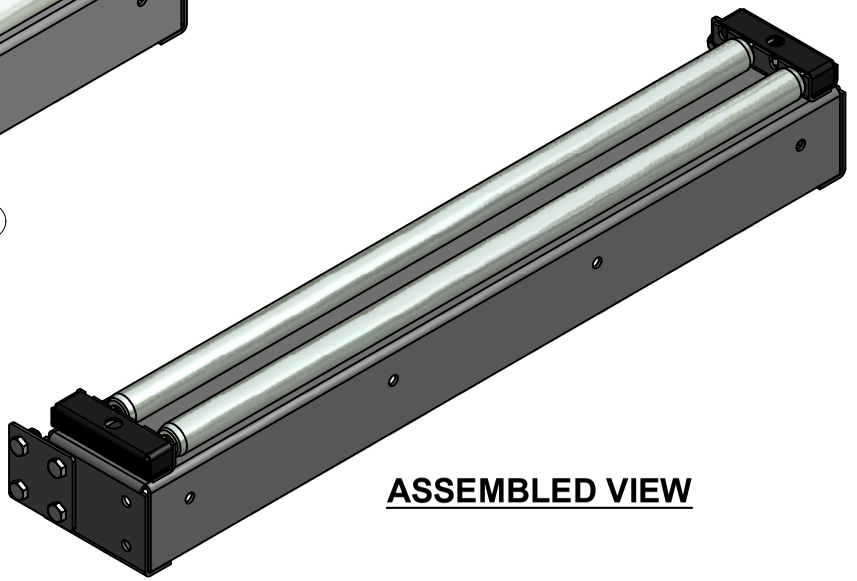
MACHINE AVAIABLE SPECIAL OPTIONS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	6/29/2010	TONYS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	CR-1010	ROLLER
2	6	FLWMGP	LOCK WASHER M6
3	6	FSHMG016P10	SHCS M6x16 LG.
4	12	FNLNMHP	NYLOCK NUT M8
5	1	LDX-0194-4	PACK TABLE EXT.
6	2	LDX-0195-4	CAP, ROLLER SHORT
7	2	LDX-0196-3	ANGLE, ROLLER SUPPORT SHORT
8	12	FHHMH016P10	HHCS M8 X 16
9	2	LDX-0278-3	SUPPORT PLATE, PACK TABLE



EXPLODED VIEW



ASSEMBLED VIEW

MAT'L	PART #	CAD FILE LDXRTB PACK TABLE ASSY 4 INCH.IDW	
NOTED	STD	PLOT DATE 6/29/2010	
ST. ST.	N/A	DRAWN DATE 6/29/2010	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

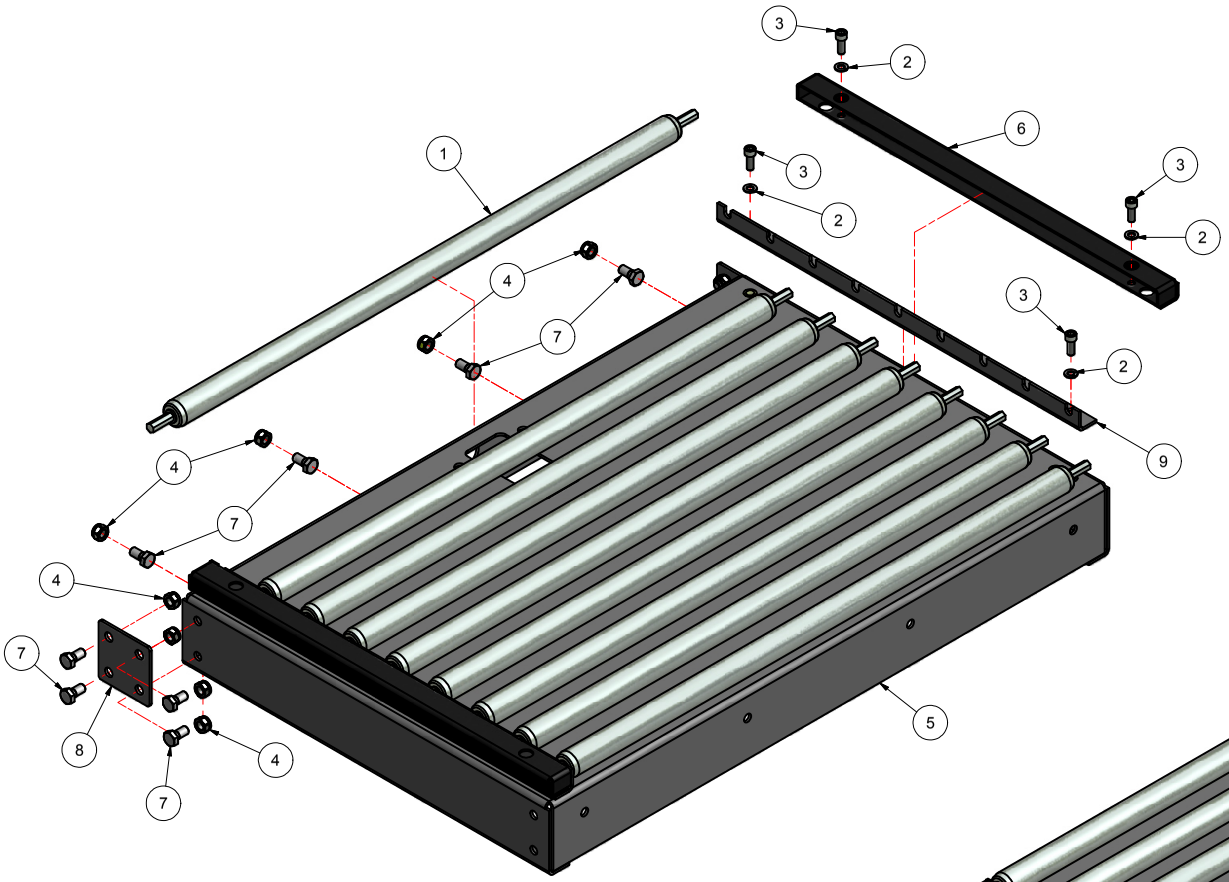
TOLERANCES UNLESS OTHERWISE NOTED:
INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°
METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm
MACH. FINISH 125
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE .ITA/LDXRTB/4

DWG NO LDXRTB PACK TABLE ASSY 4 INCH	SIZE A
MATERIAL NOTED	CHECKED
DRAWN tonys	APPROVED TONYS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	7/1/2010	TONYS



EXPLODED VIEW

ASSEMBLED VIEW

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	9	CR-1010	ROLLER
2	8	FLWMGP	LOCK WASHER M6
3	8	FSHMG016P10	SHCS M6x16 LG.
4	12	FNLNMHP	NYLOCK NUT M8
5	1	LDX-0287-4	PACK TABLE EXT. 18"
6	2	LDX-0286-4	CAP, ROLLER 18"
7	12	FHHMH016P10	HHCS M8 X 16
8	2	LDX-0278-3	SUPPORT PLATE, PACK TABLE
9	2	LDX-0285-4	ANGLE, ROLLER SUPPORT 18"

MAT'L	PART #	CAD FILE	LDXRTB PACK TABLE ASSY 18 INCH.dw
NOTED	STD	PLOT DATE	11/19/2007
ST. ST.	N/A	DRAWN DATE	7/1/2010
STAINLESS : NO FINISH			DO NOT SCALE PRINT

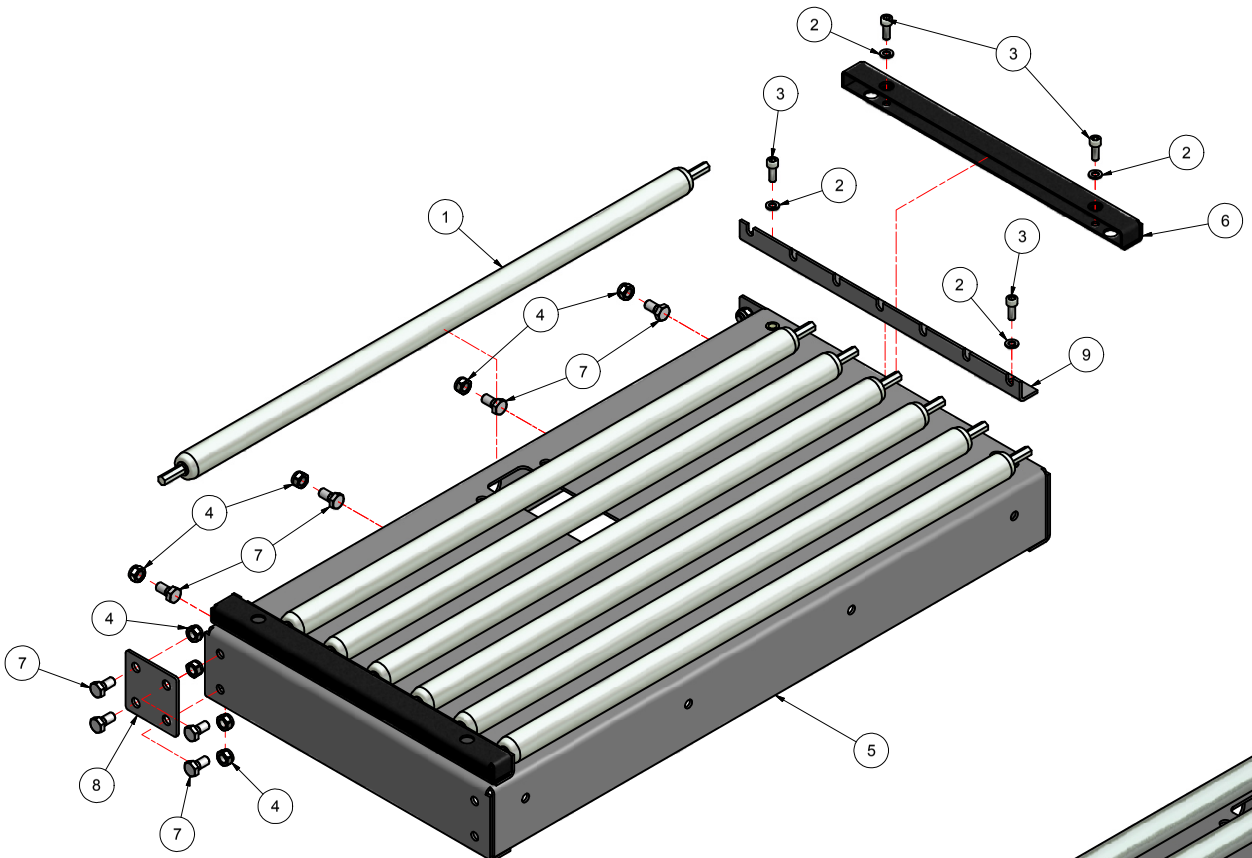
TOLERANCES UNLESS OTHERWISE NOTED:
INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°
METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm
MACH. FINISH 125
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE .ITA/LDXRTB/18

DWG NO LDXRTB PACK TABLE ASSY 18 INCH	REV A
MATERIAL NOTED	CHECKED
DRAWN tonys	APPROVED TONYS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	7/1/2010	TONYS



EXPLODED VIEW

ASSEMBLED VIEW

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	7	CR-1010	ROLLER
2	8	FLWMGP	LOCK WASHER M6
3	8	FSHMG016P10	SHCS M6x16 LG.
4	12	FNLNMHP	NYLOCK NUT M8
5	1	LDX-0282-4	PACK TABLE EXT. 14"
6	2	LDX-0283-4	CAP, ROLLER 14"
7	12	FHHMH016P10	HHCS M8 X 16
8	2	LDX-0278-3	SUPPORT PLATE, PACK TABLE
9	2	LDX-0284-4	ANGLE, ROLLER SUPPORT 14"

MAT'L	PART #	CAD FILE	LDXRTB PACK TABLE ASSY 14 INCH.dw
NOTED	STD	PLOT DATE	11/19/2007
ST. ST.	N/A	DRAWN DATE	7/1/2010
STAINLESS : NO FINISH			DO NOT SCALE PRINT

TOLERANCES UNLESS OTHERWISE NOTED:

INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°

METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm

MACH. FINISH 125

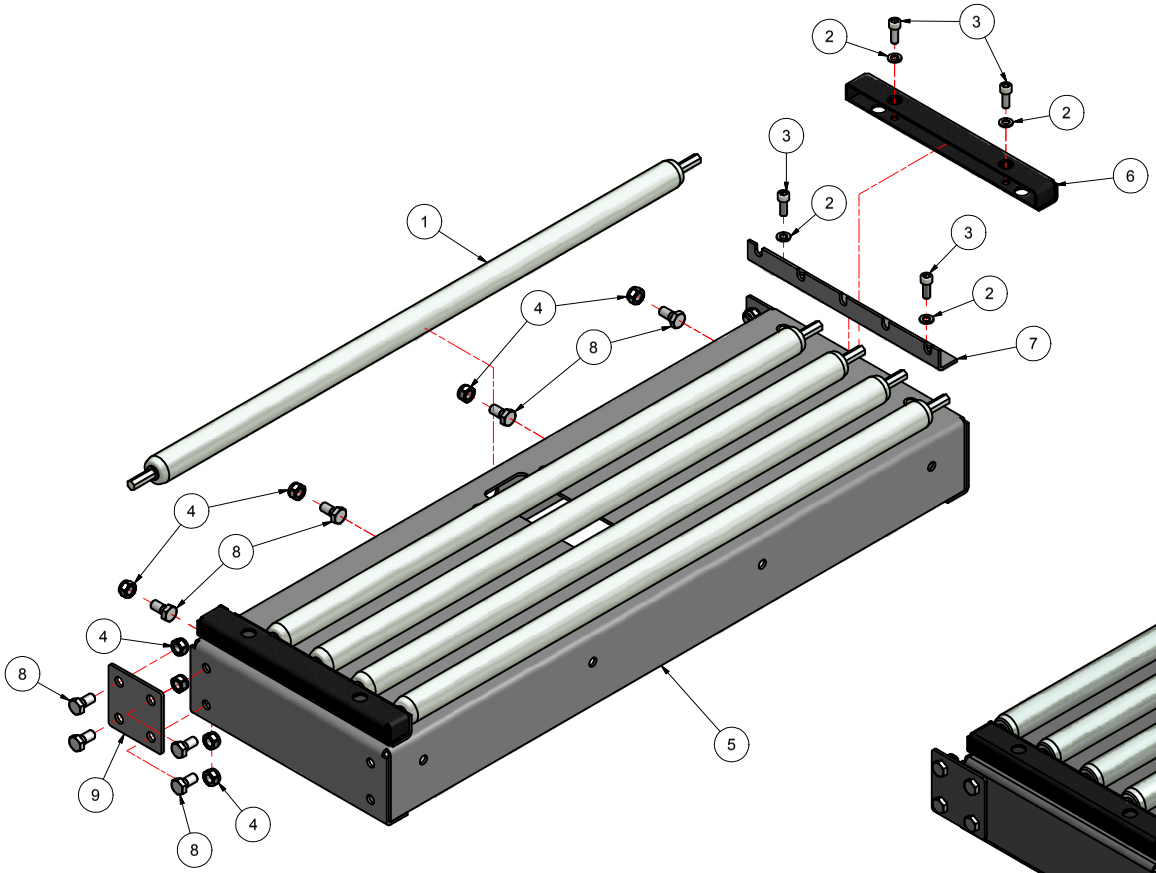
FRACTIONS ± 1/64

LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE: .ITA/LDXRTB/14

DWG NO	LDXRTB PACK TABLE ASSY 14 INCH	SIZE	B
MATERIAL	NOTED	CHECKED	
DRAWN	tonys	APPROVED	TONYS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	6/30/2010	TONYS



EXPLODED VIEW

ASSEMBLED VIEW

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	5	CR-1010	ROLLER
2	8	FLWMGP	LOCK WASHER M6
3	8	FSHMG016P10	SHCS M6x16 LG.
4	12	FNLNMHP	NYLOCK NUT M8
5	1	LDX-0279-4	PACK TABLE EXT. 9.25"
6	2	LDX-0280-4	CAP, ROLLER 9.25"
7	2	LDX-0281-4	ANGLE, ROLLER SUPPORT 9.25"
8	12	FHHMH016P10	HHCS M8 X 16
9	2	LDX-0278-3	SUPPORT PLATE, PACK TABLE

MAT'L	PART #	CAD FILE LDXRTB PACK TABLE ASSY 9 INCH.IDW	
NOTED	STD	PLOT DATE 6/30/2010	
ST. ST.	N/A	DRAWN DATE 6/30/2010	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:

INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°

METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm

MACH. FINISH 125

FRACTIONS ± 1/64

LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE .ITA/LDXRTB/9.25

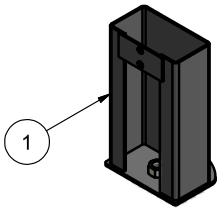
DWG NO LDXRTB PACK TABLE ASSY 9 INCH	REV A
MATERIAL NOTED	CHECKED
DRAWN tonys	APPROVED TONYS

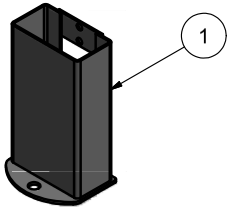
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	8/5/2011	TONYS

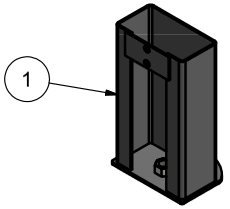
Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	NOTED	LEG EXTENSION

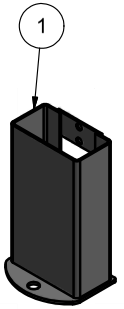
Check table below for leg number and machine conveyor height range.

Note: Caster will add 4" to Min. & Max. conveyor height.









ASSY. NO.	LEG #	HEIGHT RANGE	HEIGHT RANGE w/ CASTER
STANDARD	LDX-0025-4	22.0 to 27.75	26.0 to 31.75
.LEA/LDX27	LDX-0025A-4	27.0 to 32.75	31.0 to 36.75
.LEA/LDX25	LDX-0025D-4	25.5 to 31.25	29.5 to 35.25
.LEA/LDX32	LDX-0025B-4	32.0 to 37.75	36.0 to 41.75
.LEA/LDX37	LDX-0025C-4	37.0 to 42.75	41.0 to 46.75

MAT'L	PART #	CAD FILE LEA LDX.idw	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE 8/5/2011	
ST. ST.	N/A	DRAWN DATE 8/5/2011	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

.X = ±.050
INCH .XX = ±.015 ANGLES ± 1/2°
.XXX = ±.005

.X = ±1.0mm
METRIC .XX = ±.3mm MACH. FINISH 125
.XXX = ±.1mm

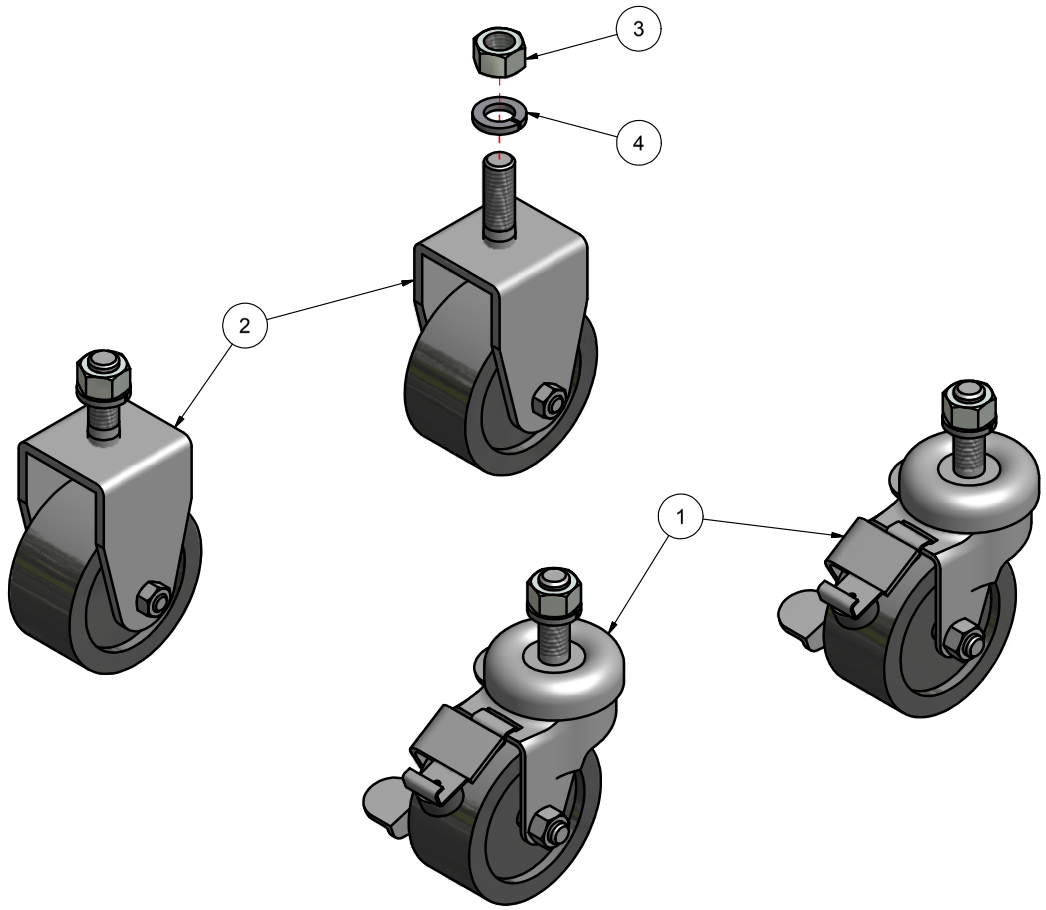
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE
LEG EXTENSION ASSY

DWG NO	LEA LDX	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
			tonys



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	OPC511	CASTER, SWIVEL w/ BRAKE
2	2	OPC509	CASTER, RIGID
3	4	HHFNSNP	HEX NUT 1/2-13
4	4	FLWSHP	1/2" LOCK WASHER

MAT'L	PART #	CAD FILE LDC302.idw	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE May 31 2005 4:00AM	
ST. ST.	LDC302/SS	DRAWN DATE 5/31/2005	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

.X = ±.050
INCH .XX = ±.015 ANGLES ± 1/2°
.XXX = ±.005

.X = ±1.0mm
METRIC .XX = ±.3mm MACH. FINISH 125
.XXX = ±.1mm

FRACTIONS ± 1/64

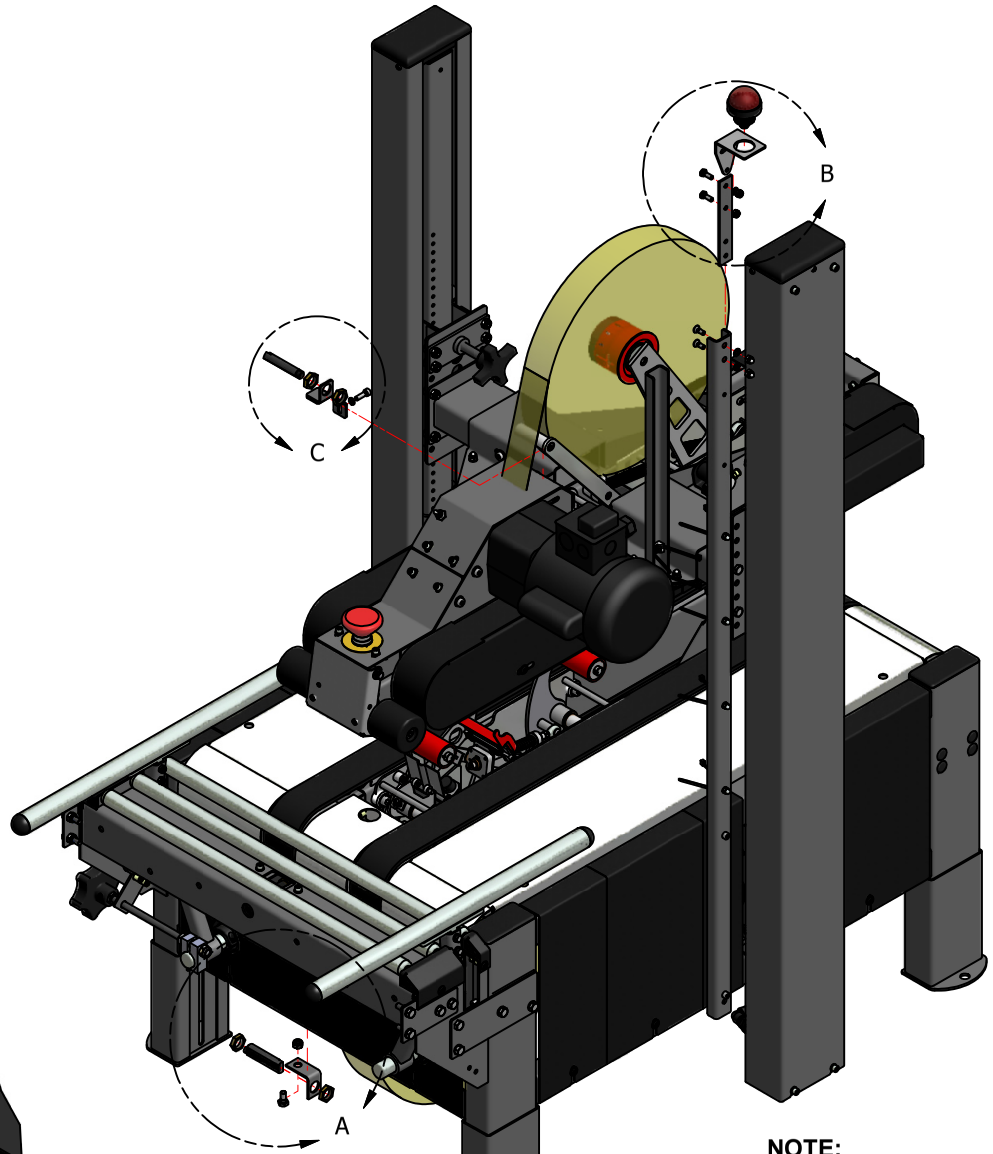
LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

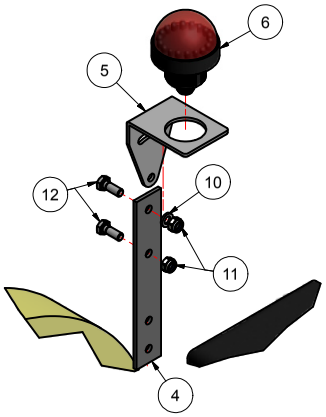
TITLE
LIGHT DUTY CASTER ASSY.

DWG NO .LDC302	SCALE N/A
MATERIAL	CHECKED
DRAWN tonys	APPROVED

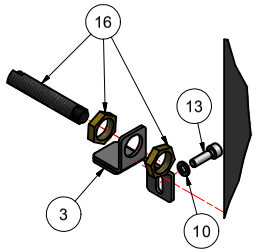
Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A219-CH-2	PHOTOEYE
2	1	LDX-0275-3	PHOTOEYE BRKT. BAL. CART.
3	1	LDX-0404-4	BRKT, LOW TAPE TOP
4	1	LDX-0348-3	BRKT LOW TAPE LITE
5	1	A219BA-BRKT-4	BRACKET RIGHT ANGLE 30mm
6	1	A219-BA-EZL-AC	EZ LIGHT INDICATOR 85-130VAC
7	2	FFHMG016P10	FHCS M6 X 1.0 X 16 LG.
8	2	FLWMGP	LOCK WASHER M6
9	2	FHDNMGP	HEX DOME NUT M6
10	2	FFWMGP	FLAT WASHER M6
11	2	FNLNMGP	NYLOCK NUT M6
12	2	FHHMG016P10	HHCS M6 X 16
13	1	FSHMG020P10	SHCS M6 X 20
14	1	FHHMH016P10	HHCS M8 X 16
15	1	FNLNMHP	NYLOCK NUT M8
16	1	A219-CH-5	PHOTOEYE

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	8/25/2011	TONYS

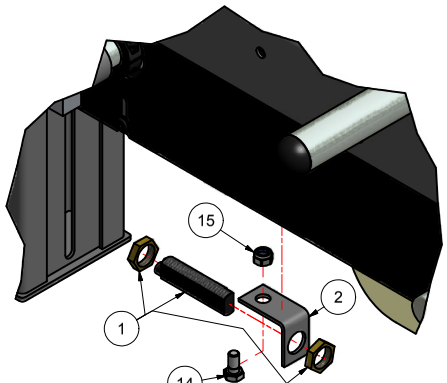




DETAIL B



DETAIL C
These items for Top Only Low Tape Alarm



DETAIL A
These items for Bottom Only Low Tape Alarm

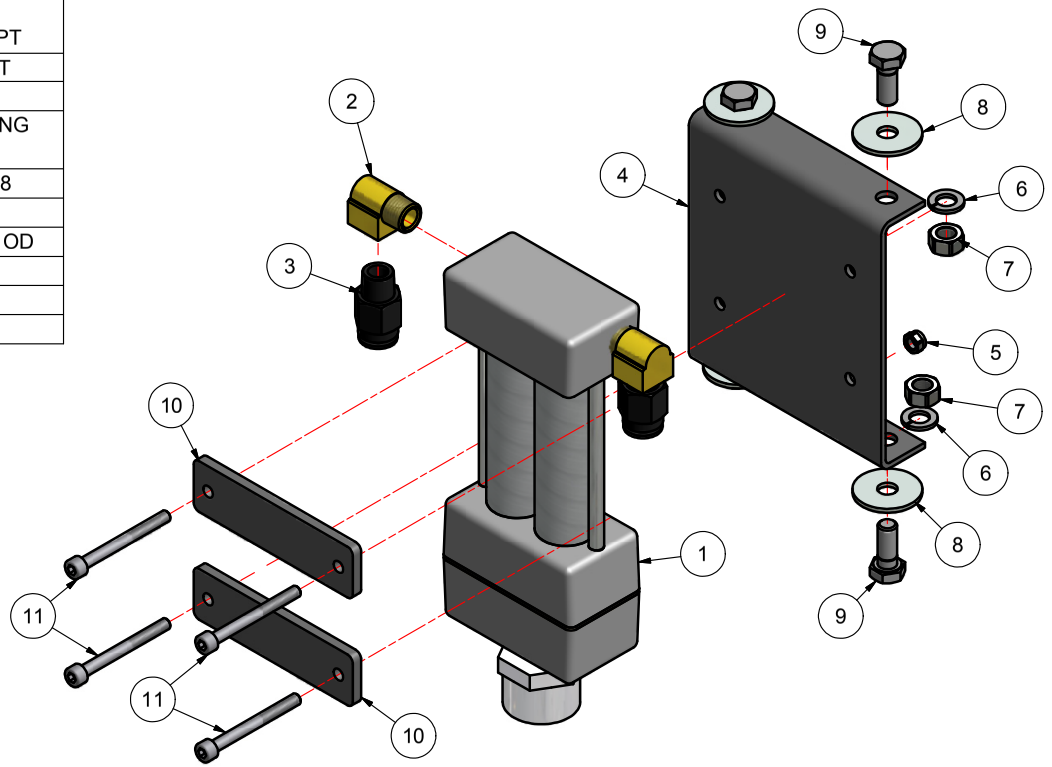
NOTE:

Optional Tape Alarm Assemblies
.LTA-LDXRTB-TO (Low Tape Alarm Top Only)
.LTA-LDXRTB-BO (Low Tape Alarm Bottom Only)
.LTA-LDXRTB-TB (Low Tape Alarm Top & Bottom)

MAT'L	PART #	CAD FILE LDXRTB MAIN ASSY 2.0 W with LOW TAPE ALARM.sldasm	TOLERANCES UNLESS OTHERWISE NOTED:	LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.	
NOTED	STD	PLOT DATE 8/25/2011	.X = ±.050 INCH .XX = ±.015 .XXX = ±.005 ANGLES ± 1/2°	TITLE Low Tape Alarm Assy's	
ST. ST.	N/A	DRAWN DATE 8/25/2011			
STAINLESS : NO FINISH		DO NOT SCALE PRINT	.X = ±1.0mm METRIC .XX = ±.3mm .XXX = ±.1mm MACH. FINISH 125	DWG NO LDXRTB MAIN ASSY 2.0 W with LOW TAPE ALARM	SCALE N/A
			FRACTIONS ± 1/64	MATERIAL NOTED	CHECKED
				DRAWN TONYS	APPROVED TONYS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	N495	Extractor/ Air Dryer
2	2	PF-10	BRASS STREET ELBOW, 90, 1/4 NPT
3	2	PF-17	1/4 Tube to 3/8 NPT
4	1	LDX-0405-4	ADA BRKT
5	4	FNLNMFS	M5 NYLON LOCKING NUT S.S.
6	4	FLWMHP	LOCK WASHER M8
7	4	FHFNMHP	HEX NUT, M8
8	4	SPH-1400	WASHER, LARGE OD
9	4	FHHMH020P10	HHCS M8 X 20
10	2	LDX-0406-3	ADA STRAP
11	4	FSHMF050B10	S.H.C.S. M5x50

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	9/6/2011	TONYS



NOTE:

1. .ADA/LDXRTB is located inside the bottom frame assembly right rear.
2. See PNEU-0241-4 for attachment to air lines.

MAT'L	PART #	CAD FILE ADA LDXRTB.dwg	TOLERANCES UNLESS OTHERWISE NOTED:
NOTED	STD	PLOT DATE 9/6/2011	
ST. ST.	N/A	DRAWN DATE 9/6/2011	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

INCH .X = ±.050, .XX = ±.015, .XXX = ±.005; ANGLES ± 1/2°

METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm; MACH. FINISH 125

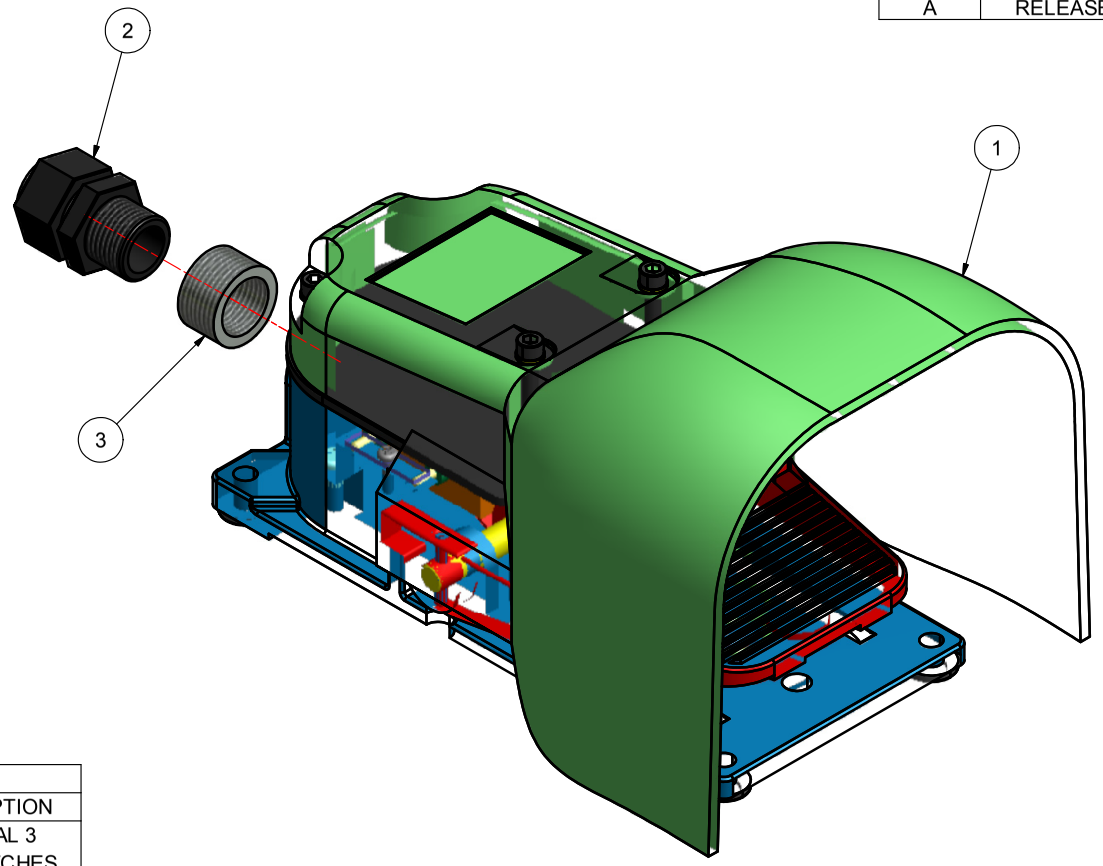
FRACTIONS ± 1/64

LOVESHAW an ITW Company
RT. 296, SOUTH CANAAN, PA.

TITLE: Air Dryer Assy. for LDXRTB

DWG NO	ADA LDXRTB	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	9/23/2011	TONYS



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LDF506-FP	FOOT PEDAL 3 SPDT SWITCHES
2	1	AH199G	FITTING, STRAIN PG16
3	1	PSC301278	REDUCER BUSHING

MAT'L	PART #	CAD FILE	FPV ASSY.idw
NOTED	STD	PLOT DATE	9/23/2011
ST. ST.	N/A	DRAWN DATE	9/23/2011
STAINLESS : NO FINISH		DO NOT SCALE PRINT	

TOLERANCES UNLESS OTHERWISE NOTED:

INCH .X = ±.050, .XX = ±.015, .XXX = ±.005, ANGLES ± 1/2°

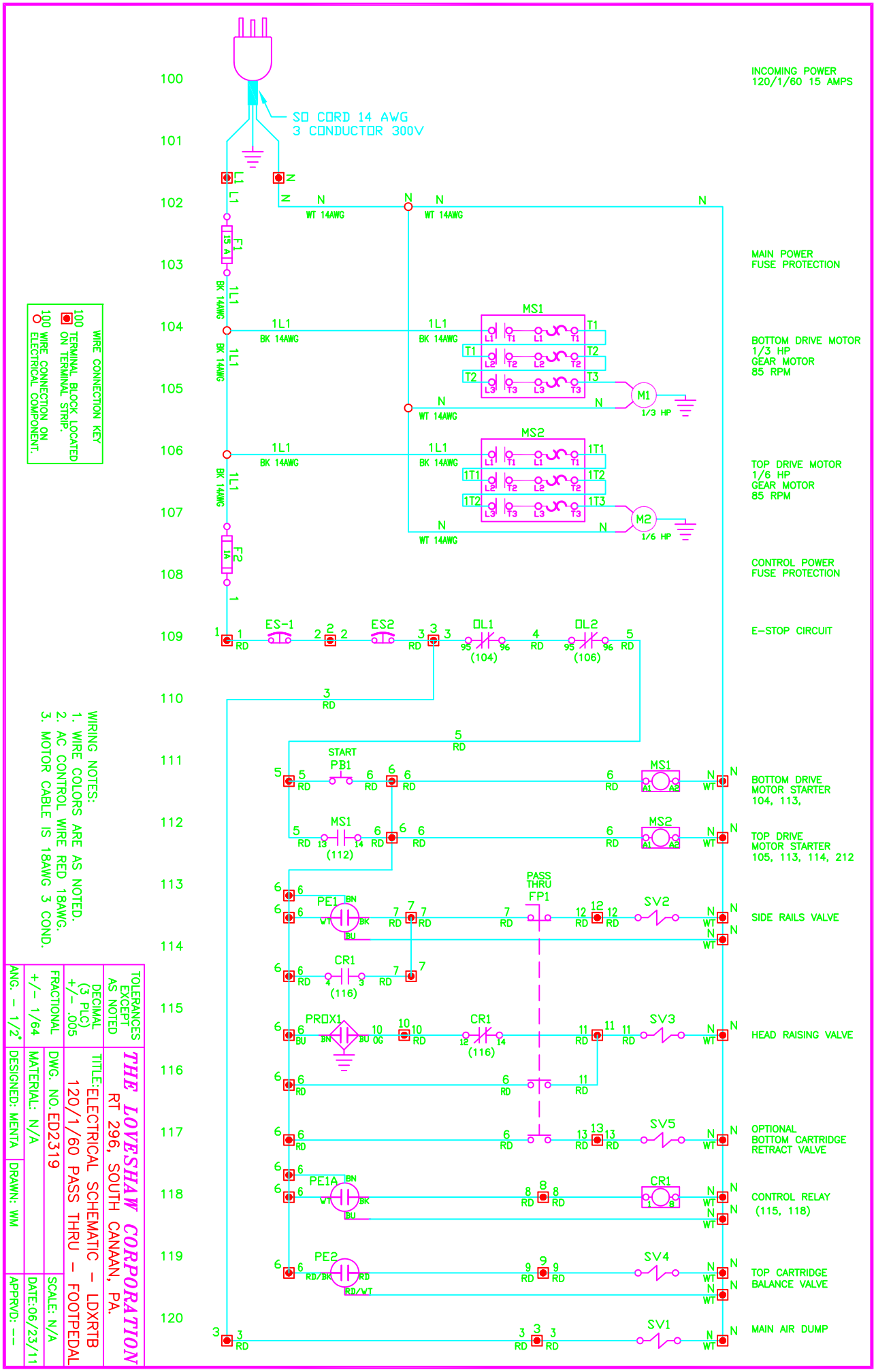
METRIC .X = ±1.0mm, .XX = ±.3mm, .XXX = ±.1mm, MACH. FINISH 125

FRACTIONS ± 1/64

LOVESHAW an *ITW* Company
RT. 296, SOUTH CANAAN, PA.

TITLE: FOOT PEDAL ASSY

DWG NO	LDF506-FP	SCALE	N/A
MATERIAL	NOTED	CHECKED	
DRAWN	TONYS	APPROVED	TONYS


WIRE CONNECTION KEY
100 TERMINAL BLOCK LOCATED ON TERMINAL STRIP.
100 WIRE CONNECTION ON ELECTRICAL COMPONENT.
WIRING NOTES:
1. WIRE COLORS ARE AS NOTED.
2. AC CONTROL WIRE RED 18AWG.
3. MOTOR CABLE IS 18AWG 3 COND.
SO CORD 14 AWG
3 CONDUCTOR 300V
INCOMING POWER
120/1/60 15 AMPS
MAIN POWER
FUSE PROTECTION
BOTTOM DRIVE MOTOR
1/3 HP
GEAR MOTOR
85 RPM
TOP DRIVE MOTOR
1/6 HP
GEAR MOTOR
85 RPM
CONTROL POWER
FUSE PROTECTION
E-STOP CIRCUIT
BOTTOM DRIVE
MOTOR STARTER
104, 113,
TOP DRIVE
MOTOR STARTER
105, 113, 114, 212
SIDE RAILS VALVE
HEAD RAISING VALVE
OPTIONAL
BOTTOM CARTRIDGE
RETRACT VALVE
CONTROL RELAY
(115, 118)
TOP CARTRIDGE
BALANCE VALVE
MAIN AIR DUMP
THE LOVESHAW CORPORATION
RT 296, SOUTH CANAAN, PA.
TITLE: ELECTRICAL SCHEMATIC – LDXRTB
120/1/60 PASS THRU – FOOTPEDAL
DWG. NO. ED2319
MATERIAL: N/A
SCALE: N/A
DATE: 06/23/11
DESIGNED: MENTA
DRAWN: WM
APPRVD: --
TOLERANCES EXCEPT AS NOTED
DECIMAL (3 PLC) +/- .005
FRACTIONAL +/- 1/64
ANG. - 1/2°