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Introduction

Thank you for purchasing the Little David™ case sealer, the LDXSS 2.0. The LDXSS 2.0 is uniform bottom belt drive case sealer. The LDXSS 2.0 is a robust built 24/7 case sealer constructed of quality materials, bearing, 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.
- How to adjust the side rails width.
- 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.
Operating Safety

Observe the warnings and cautions below when using the Little David LDXSS 2.0 case sealer. Within this manual, 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.
NOTE:
All machine labels should be in place and readable before and during operation of machine.
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: 61.44” @ 22.25” conveyor height
- Width: 33.49” (Approx. Width)
- Length: 34.22” (51.20” with pack table)
- Conveyor height: 22.25” to 25.75” – Standard

Electrical Requirements:
- Standard Voltage: 120/1/60 with 10 amp dedicated service.
- Optional voltages are available consult factory.

Operating speed:
- Standard belt speed: 80 ft./ min.
**Air Requirement:**

- N/A

**Machine box capacity:**

- Length: 4.5” (114.3) min. to infinite
- Width: 4.50” (114.3) min. to 27” (685.8) max. (2” tape)
- Width: 5.50” (139.7) min. to 27” (685.8) max. (3” tape)
- Height: 4.50” (114.3) min. to 24” (609.6) max.
  
  3.50” (88.9) min. with reduced tape tabs
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.

**Step Two:** Take care removing the machine from the skid. 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 moving the leg to its proper position. The use of a jack or forklift is required.
Theory of Operation

LDXSS 2.0

The LDXSS 2.0 needs to be manually adjusted for the width and height of the box to be sealed.

With the machine off, a box will need to be placed between the side rail arms. Locate the head lock knob. Raise the head assembly by losing the lock knob on the top of the mast weldment. With the lock knob loose rotate the head lift crank till it clears the box then rotate the lock knob to lock the head in place.

(NOTE: Do not place the box on top or under cartridge while adjusting drives or head assembly. Damage may result.)

While holding the box in placed between the side rails loosen the side rail lock knob and rotate the side rails in towards the box. When the side rails contact the box on both sides tighten the side rail lock knob. Fold all four top flaps of the box, holding them down unlock and then rotate the crank to lower the head assembly till it is just resting on top of the box then lock the head in place with head lock knob.

Start machine and the box will be pulled through with the bottom belt drives and exit the machine. It may be necessary to increase the head pressure if the box stalls. Loosen the head lock knob and then apply downward pressure by rotating the head lift crank to increase drive pressure. (NOTE: Excess pressure will cause box damage and too little will cause box to stall.)
Key design features:

The LDXSS 2.0 is a uniform manual adjusted side belt case sealer.

Some of the key features are.

- Stainless steel and non-corrosive material construction.
- Sanitary design (material stand offs & cleaning access)
- Easy access internal mounted bottom belt tensioners with sealed stainless steel bearings.
- Self-tracking industrial grade endless belts.
- 2" to 3" tape cartridge capability (Fill plates and hardware required for change from 3" to 2" in base. Head assembly requires longer head shafts from 2" to 3").
- Self-centering open concept side rail guides.
- Smooth and precise vertical hand crank head adjustment
- Roller bearings on mast assembly for long life.
Machine Components

Control Station / Electrical Enclosure

The control station consist of an electrical enclosure, push pull mushroom head emergency stop switch and a start switch with motor overload relay.
Bottom Belt Drive Assembly

The bottom belt drive assembly consists of (1) 1/3 hp. motor, (2) idler/tension assembly, (1) gear box, and (2) guided rough top belts. The bottom belt drive assembly assist in conveying the box forward 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. The tensioner when adjusted maintains the tension on the drive roller.
**Head Assembly & Mast Assembly**

The head assembly consists of a sheet metal parts, roller bearings, slide plates and stand offs. The assembly can be converted to a 2" wide or 3" wide cartridge cavity by changing the tie shafts and mast stand offs. The horizontal surface that contact the box is made of a low friction plastic that provides a long wear surface.

Internal sealed roller bearings and low friction slide plates provide smooth vertical head weldment travel on the mast assembly.

The mast assembly is made up of a vertical structural tube, vertical adjustment screw, hand crank and lock knob.
Maintenance

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

**Replacing bottom belt drive motor**

1. Disconnect electrical or unplug machine.

2. Loosen or remove cradles holding motor cable. This will provide slack in the line after removing motor from gear box. It may be necessary cut a few wire ties to allow some slack in the line. Note there location for replacement later.

3. Hold or support motor while removing (4) hex head bolts between motor and gear box. Before removing motor note orientation for reinstallation. Remove motor by sliding it down out of gear box.
4. Unwire existing motor noting wire locations.
5. Rewire new motor and apply never seize to new key.
6. Install new motor in original orientation & tighten hardware.
7. Close wire cradles and replace wire ties on motor cable.
8. Re-connect electrical supply or plug in machine and run as normal.

**Replacing bottom belt & tensioner access.**

1. Disconnect electrical or unplug machine.
2. Pull up on center of belt while applying light pressure inward on tensioner lock until it is fully engaged.
4. Remove white plastic belt guide by sliding back till key hole slot lines up with pin, then remove.
5. Remove side guard with same procedure.
6. Adjust tensioner by compressing spring for more belt tension. **Note** that full compression of spring my not allow tensioner lock to engage and or cause damage to it.
7. Replace belts, install guards, wear strips then pull up on belts. While holding up pull tensioner lock pin out. Allow belts to rest on guide but make sure they are aligned with drive roller and idlers.

8. Re-connect electrical supply or plug in machine and run as normal.

**Machine Maintenance:**

**Daily**
- Clean machine (as required)
- Inspect bottom belts

**Weekly**
- Check / Adjust belt tensioner
- Inspect area around motor / gearbox
- Inspect front tensioner rollers

**Monthly**
- Check / Adjust head wear pads

**Cartridge Maintenance:** Refer to cartridge area of manual
# Troubleshooting:

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine will not start.</td>
<td>Emergency stop switch(s) activated either No incoming power. Motor overload tripped</td>
<td>Check that E-stop switch is not engaged. Check machine fuses and plant receptacle. Check overload</td>
</tr>
<tr>
<td>Box jamming in machine.</td>
<td>Box is out of range of machine.</td>
<td>Do not run out of spec box.</td>
</tr>
<tr>
<td></td>
<td>Box is voided and head is crushing it.</td>
<td>Adjust head balance regulator.</td>
</tr>
<tr>
<td></td>
<td>Tape cartridge problems.</td>
<td>Check tape cartridge troubleshooting.</td>
</tr>
<tr>
<td></td>
<td>Bottom drive belting worn.</td>
<td>Replace drive belts.</td>
</tr>
<tr>
<td></td>
<td>Box is over filled.</td>
<td>Adjust box contents.</td>
</tr>
<tr>
<td>Top head assy. won’t move.</td>
<td>Lock knob engaged</td>
<td>Check that lock knob is not engaged.</td>
</tr>
<tr>
<td></td>
<td>Guide bearing / wear pad tight..</td>
<td>Adjust guide bearing / wear pads.</td>
</tr>
<tr>
<td>Drive belts are slipping.</td>
<td>Belts are not tensioned.</td>
<td>Adjust tensioner spring.</td>
</tr>
<tr>
<td></td>
<td>Tape cartridge adjusted to high</td>
<td>Adjust stop inside tape cartridge.</td>
</tr>
<tr>
<td></td>
<td>Belts are worn.</td>
<td>Replace drive belts.</td>
</tr>
</tbody>
</table>
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 (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.
Chapter 10

ASSEMBLY DRAWINGS AND SCHEMATICS
**NOTE:**

Belt Speed: 80 ft/min (Standard)

Air Required: n/a

Power Required: 10 amps @ 115 VAC

Box Range: L = 4.0 / 101.6 min to INF.

W = 4.5 / 114.3 min to 27.0 / 685.8 max (2" tape width cartridge)

5.5 / 139.7 min to 27.0 / 685.8 max (3" tape width cartridge)

H = 4.5 / 114.3 min to 24.0 / 609.6 max

(3.5 / 89.9 min with reduced tape tabs)

Conv. Height

22.25 / 565.15 to 25.75 / 654.05

Conv. Height

61.44 / 1560.57

@ 22.25 Conv. Height

**TOLERANCES UNLESS OTHERWISE NOTED:**

**FRACTIONS £ 1/64**

**MAT'L**

STAINLESS: NO FINISH

**PART #**

N/A

**CAD FILE**

LDXSS 2.0 MAIN ASY. IDW

**NOTED**

STD

**PLOT DATE**

12/10/2013

**DRAWN DATE**

11/18/2009

**ST. ST.**

N/A

**DRAWN**

Tony S

**CHECKED**

Tony S

**APPROVED**

Tony S

**SCALE**

N/A

**REV**

A

**DESCRIPTION**

RELEASED

**DATE**

12/10/2013

**APPROVED**

TONYS

**TITLE**

LDXSS 2.0 FOOTPRINT

**REVOLUTION HISTORY**

**REV**

A

**DESCRIPTION**

RELEASED

**DATE**

12/10/2013

**APPROVED**

TONYS

**LOVESHAW**

an ITW Company

RT. 296, SOUTH CANAAN, PA.
**Parts List**

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<td>SPHERICAL ALIGN BEARING</td>
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<td>External Tooth Lock Washer, M8 S.S.</td>
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<td>FSHMH030S10</td>
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**Loctite Application Note:**
- 277 is RED Loctite
- 242 is BLUE Loctite
- 538 is GREEN Loctite
- / is no Loctite applied
Parts List

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<td>WASHER, HANDLE</td>
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<td>MAST GUSSET</td>
</tr>
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<td>LDX-0596-4SS</td>
<td>MAST CROSS BRACE</td>
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<td>LDX-0596-4SS</td>
<td>MAST BRACE BLOCK</td>
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<td>22</td>
<td>4</td>
<td>FHMMH040S10</td>
<td>HHCS M8 X 40</td>
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<td>MAST SUPPORT BOTTOM</td>
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<td>24</td>
<td>6</td>
<td>FETLWSJ5</td>
<td>LOCK WASHER EXT. 3/4</td>
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<tr>
<td>25</td>
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<td>FFWMH15S</td>
<td>FLAT WASHER M8 SS</td>
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<td>MAST, TUBE</td>
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<td>LDX-0564-4SS</td>
<td>MAST BRACE</td>
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<td>MAST BRACE ANGLE</td>
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<td>MAST BUSHING</td>
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<tr>
<td>30</td>
<td>4</td>
<td>LDX-0455-3SS</td>
<td>STAND OFF</td>
</tr>
</tbody>
</table>

SEE NOTE 1

NOTE:
1. Change stand off between Item #28 (MAST TUBE) and #20 (MAST GUSSET) & #29 (MAST BRACE) for different machine width.
2. 2 inch tape machine uses (6) Item #1 (LDX-0455-3SS)
3. 3 inch tape machine uses (6) Item #1A (LDX-0455A-3SS)

Loctite Application Note:
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- 538 is GREEN Loctite
- / is no Loctite applied

The dimensions and tolerances are subject to change without notice. This drawing is intended for use in the manufacture of the product and does not represent the finished product. Inquiries and orders must be directed to the manufacturer. The manufacturer reserves the right to change the product without notice. All dimensions are given in inches unless otherwise noted. The letters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z are not to scale and are used for identification only. All materials are prone to change without notice. The data collected is for reference only.
Loctite Application Note:
- 277 is RED Loctite
- 242 is BLUE Loctite
- 538 is GREEN Loctite
/ is no Loctite applied

Parts List
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### Parts List

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### Rev History

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<td>1/8/2013</td>
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### Notes

- **Replace square hole plug with flush hole plug (#24)**

### Belts Application Note:

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- 242 is BLUE Loctite
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**Loctite Application Note:**

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**FOR ASSY. (LXCA-120160-B) USE P/N:**
- Item: (*) LD16B-2033/SS Motor (TEFC S.S.)
- Item: (*) RED-1019 (White epoxy coat)

**FOR ASSY. (LXCA-120160-A) USE P/N:**
- Item: (*) LD16B-2033/SS Motor (TEFC S.S.)
- Item: (*) RED-1020N (S.S. gear box)

**FOR ASSY. (LXCA-120160-D) USE P/N:**
- Item: (*) LD16B-2033/SS1 Motor (TENV S.S.)
- Item: (*) RED-1020N (S.S. gear box)

**FOR ASSY. (LXMA-120160-C) USE P/N:**
- Item: (*) LD16B-2033/SS1 Motor (TENV S.S.)
- Item: (*) RED-1020N (S.S. gear box)
ELECTRICAL SCHEMATIC
LEGEND, LD7, LD3, AND LDX, RTE
120 VAC 60HZ

SINGLE PHASE 50/60 HZ MODELS

THREE PHASE 50/60 HZ MODELS

CADFILE: ED73
MACHINE AVAILABLE SPECIAL OPTIONS
**See part number chart.**

### ASSY. NUMBER | PART NO. | CONV. RANGE
---|---|---
STANDARD | LDX-0558-4SS | 22.25 to 25.75
.LEA/LDXSS25 | LDX-0558A-4SS | 25.5 to 29.0
.LEA/LDXSS28 | LDX-0558B-4SS | 28.5 to 32.0
.LEA/LDXSS31 | LDX-0558C-4SS | 31.5 to 35.0

**REV** | **DESCRIPTION** | **DATE** | **APPROVED**
---|---|---|---
A | RELEASED | 1/3/2013 | TONY'S
Parts List

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REV DESCRIPTION DATE APPROVED
A RELEASED 5/5/2015 TONYS
Parts List

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