

LITTLE DAVID

OWNERS MANUAL



LDX / SS

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GENERAL SAFETY PRECAUTIONS

BEFORE INSTALLING, OPERATING OR SERVICING THIS EQUIPMENT, READ THE FOLLOWING PRECAUTIONS CAREFULLY:

- * ALWAYS DISCONNECT POWER AND AIR SUPPLY (IF APPLICABLE) BEFORE SERVICING THE MACHINE. REFER TO YOUR COMPANY'S LOCK OUT/TAG OUT PROCEDURES.
- * THIS MACHINE IS EQUIPPED WITH MOVING BELTS. DO NOT PLACE HANDS NEAR THE REAR OF THIS MACHINE WHEN BELTS ARE MOVING, AS FINGERS MAY BE PINCHED WHERE BELTS ENTER FRAME. (SEE MACHINE LABELS, NEXT PAGE) ALWAYS USE A ROLLER TYPE EXIT CONVEYOR AND ALWAYS REMOVE THE BOXES AFTER THEY CLEAR THE EXIT END OF THE MACHINE.
- * OBSERVE CAUTION WHEN NEAR CARTRIDGE KNIFE OR WHEN THREADING TAPE. (SEE MACHINE LABELS, NEXT PAGE) KNIFE IS VERY SHARP, AUTOMATICALLY OPERATED AND IS LINKED TO THE WIPE DOWN ROLLERS.
- * DO NOT ATTEMPT TO OPEN OR WORK ON ELECTRICAL BOX, JUNCTION BOXES, OR OTHER ELECTRICAL COMPONENTS WITHOUT FIRST DISCONNECTING POWER TO THE MACHINE. REFER TO YOUR COMPANY'S LOCK OUT / TAG OUT PROCEDURES. SHOCK HAZARD EXISTS IF POWER IS NOT DISCONNECTED. (SEE MACHINE LABELS, NEXT PAGE).
- * DO NOT BY-PASS ANY DESIGNED-IN SAFETY FEATURES SUCH AS INTERLOCKS, GUARDS OR SHIELDS.
- * DO NOT PLACE HANDS OR BODY INSIDE CONFINES OF UNIFORM TYPE MACHINES UNLESS HEAD IS SECURELY LOCKED AND POWER AND AIR ARE DISCONNECTED.
- * WHEN OPERATING A SEMI-AUTOMATIC MACHINE, HOLD BOX FLAPS DOWN AT TRAILING EDGE OF THE BOX. RELEASE HANDS AS SOON AS THE BELTS TAKE THE BOX.
- * DO NOT WEAR JEWELRY, LOOSE CLOTHING, SUCH AS TIES, SCARVES, ETC. AND LONG HAIR SHOULD BE PULLED BACK WHEN OPERATING THE MACHINE. (SEE MACHINE LABELS, NEXT PAGE).
- * SAFETY GLASSES SHOULD BE WORN WHEN WORKING ON OR AROUND THE MACHINE.
- * WHEN MOVING A MACHINE WITH CASTERS OPTION, HEAD SHOULD BE IN THE LOWEST POSSIBLE POSITION. ALWAYS MOVE MACHINE IN THE SAME DIRECTION AS THE LONG AXIS, NEVER PUSH MACHINE IN DIRECTION OF THE SHORT AXIS. SEE FOOTPRINT DRAWING.
- * MACHINE LABELS (SEE NEXT PAGE) ARE PLACED ON THE MACHINE FOR YOUR SAFETY. LABELS SHOULD BE INTACT AND LEGIBLE. REPLACE LABELS IF THEY ARE WORN, DAMAGED, PEELING, OR ILLEGIBLE.

MACHINE SPECIFICATIONS

MACHINE DIMENSIONS:

HEIGHT:	58.4 inches	1483.4 mm
WIDTH:	38 inches	965.2 mm
LENGTH:	56 inches	1422.4 mm (with front pack table)

TABLE HEIGHT (adjustable):

MINIMUM:	22.5 inches	571.5 mm
MAXIMUM:	28.5 inches	723.9 mm

ELECTRICAL:

STANDARD:	115V/1/60 240V/1/50
OPTIONAL:	220V/1/50,60 220V/3/50,60 380V/3/50 440V/3/50 440V/3/60

BOX CAPACITY:

LENGTH:	4.5 inches to unlimited max.	114.3 mm to unlimited max.
WIDTH:	5.5 inches to 27 inches	139.7 mm to 685.8 mm
HEIGHT:	4.5 inches to 24 inches	114.3 mm to 609.6 mm

OPERATING SPEED:

BELT SPEED:	80 ft / min.	18 m/min.
NUMBER OF BOXES/MIN.:	VARIES WITH BOX SIZE	

CLOSURE MATERIAL - PRESSURE SENSITIVE TAPE

WIDTH:	1.5 inches to 2 inches	38 mm to 50 mm
MAX. ROLL DIAMETER:	15 inches	380 mm
WEIGHT: (uncrated)	180 lbs.	81 kg.

INTRODUCTION

THE LITTLE DAVID LDXSS UNIFORM PRESSURE SENSITIVE TAPER IS DESIGNED TO TAPE TOP AND BOTTOM FLAPS OF A WIDE VARIETY OF BOX SIZES. AFTER MANUALLY ADJUSTING THE MACHINE FOR THE BOX SIZE, THE OPERATOR ONLY HAS TO FOLD THE FLAPS AND PUSH THE BOX INTO THE MACHINE AFTER WHICH THE MACHINE WILL TAPE THE TOP AND BOTTOM FLAPS AND DISCHARGE THE BOX.

THE SIMPLE BUT SOPHISTICATED DESIGN INSURES A MINIMUM OF MAINTENANCE PROBLEMS AND THE MACHINE CAN BE EASILY OPERATED BY UNSKILLED OPERATORS. DUE TO ITS SMALL SIZE AND SIMPLE PLUG-IN CONNECTION, IT CAN BE QUICKLY MOVED TO THE AREA WHERE IT IS NEEDED. IT MAY STAND ALONE OR IF DESIRED, BE INCORPORATED IN A CONVEYOR SYSTEM.

THE FINEST MATERIALS AND WORKMANSHIP HAVE BEEN EMPLOYED TO INSURE SATISFACTION. IF ADJUSTMENTS OR REPAIRS BECOME NECESSARY YOU WILL FIND SIMPLE INSTRUCTIONS OUTLINED IN THIS MANUAL. IF A PROBLEM OCCURS WHICH IS NOT COVERED IN THE MANUAL, PLEASE TELEPHONE OUR SERVICE DEPARTMENT AT:

LOVESHAW CORPORATION
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LOVESHAW - EUROPE
UNIT 9 BRUNEL GATE
WEST PORTWAY INDUSTRIAL ESTATE
ANDOVER, HAMPSHIRE SP10 3SL
ENGLAND

OR YOUR NEAREST LITTLE DAVID DISTRIBUTOR

INSTALLATION

FOR DOMESTIC CUSTOMERS ONLY - THE LITTLE DAVID IS SHIPPED COMPLETELY ASSEMBLED.

THE LITTLE DAVID IS READY FOR OPERATION AFTER PLUGGING IT INTO AN APPROPRIATE GROUNDED ELECTRICAL OUTLET. THE CONNECTION CABLE IS LOCATED ON THE SIDE OF THE MACHINE.

THE HEIGHT OF THE MACHINE CAN BE ADJUSTED FROM 22.5 INCHES TO 28.5 INCHES (571.5 mm to 723.9 mm) BY ADJUSTING THE HEIGHT OF THE LEG EXTENSIONS.

THE MACHINE SHOULD BE PLACED ON A FLAT LEVEL FLOOR SO THAT IT DOES NOT ROCK. DUE TO ITS PORTABILITY AND EASY PLUG-IN CONNECTION, THE MACHINE MAY BE QUICKLY MOVED TO VARIOUS LOCATIONS AS THE NEED ARISES. OPTIONAL CASTERS ARE AVAILABLE, IF REQUIRED. THERE ARE HOLES PROVIDED IN THE LEG EXTENSION PADS FOR ANCHORING, IF REQUIRED.

AN OPTIONAL INFEED TABLE CAN BE INSTALLED AT THE INFEED END OF THE MACHINE, HOWEVER, A CONVEYOR MAY BE USED INSTEAD. THE INFEED TABLE CAN BE USED SO THAT THE PACKER CAN FILL THE BOXES AND CLOSE THE FLAPS PRIOR TO FEEDING THE BOXES IN THE MACHINE. A CONVEYOR SHOULD BE PROVIDED AT THE OUT FEED END OF THE MACHINE TO RECEIVE THE BOXES AS THEY ARE DISCHARGED FROM THE MACHINE. **IMPORTANT: BE SURE THE TABLE AND CONVEYOR ARE 1/4" (6 mm) BELOW THE MACHINE BELT HEIGHT.**

OPERATION

AFTER THE TAPE CARTRIDGES ARE LOADED, THE MACHINE IS READY TO SEAL BOXES. PLACE A SAMPLE BOX OF THE SIZE TO BE SEALED ON THE INFEED TABLE, FOLD THE FLAPS AND PUT JUST IN FRONT OF THE TOP TAPE CARTRIDGE. RELEASE THE SIDE RAILS BY TURNING THE SIDE RAIL LOCK HAND WHEEL COUNTERCLOCKWISE AND MOVE THE SIDE RAILS IN UNTIL BOTH RAILS ARE IN CONTACT WITH THE BOX. LOCK THE SIDE RAILS BY TURNING THE HAND WHEEL CLOCKWISE. RELEASE THE HEAD LOCK HAND WHEEL COUNTERCLOCKWISE. LOWER THE HEAD UNTIL IT MAKES CONTACT WITH THE BOX; THEN PUT A SLIGHT ADDITIONAL PRESSURE ON THE BOX. LOCK THE HEAD BY TURNING THE HEAD LOCK HAND WHEEL CLOCKWISE.

START THE MACHINE WITH THE START SWITCH LOCATED ON THE OPERATOR SIDE OF THE MACHINE. NOW THE SAMPLE BOX WILL BE TAPED AND DISCHARGED. THE MACHINE IS NOW READY TO PROCESS BOXES.

THE PACKER SHOULD FOLD THE BOX FLAPS IN THE NORMAL MANNER AND **WHILE HOLDING THEM CLOSED ON THE REAR OF THE BOX**, SHOULD FEED THE BOX INTO THE MACHINE UNTIL THE BELTS TAKE IT FROM HIM. THE MACHINE WILL SEAL THE TOP AND BOTTOM FLAPS AND DISCHARGE THE BOX TO THE OUT FEED CONVEYOR AUTOMATICALLY.

MAIN FRAME

STARTER SWITCH:

THE STARTER SWITCH IS MOUNTED ON THE OPERATOR SIDE OF THE MACHINE. IT INCORPORATES A CIRCUIT BREAKER THAT IS SET TO TRIP AT THE PROPER RATING OF THE MOTOR. TO REPLACE THIS SWITCH, FIRST DISCONNECT THE MACHINE FROM THE ELECTRICAL SUPPLY. REMOVE THE SWITCH BY LOOSENING SCREWS HOLDING THE ENCLOSURE CLOSED. REMOVE ENCLOSURE TO EXPOSE MOTOR STARTER. REMOVE THE WIRES, FIRST NOTING THEIR CONNECTIONS TO THE SWITCH. SLIDE SWITCH SIDeways AND UP TO REMOVE.

TO REPLACE THE STARTER SWITCH, REVERSE THE ABOVE PROCEDURE.

SIDE RAILS:

THE SIDE RAILS CENTER AND ALIGN THE BOX AS IT IS BEING PROCESSED. THEY ARE SET MANUALLY BY LOOSENING THE SIDE RAIL LOCK HAND KNOB COUNTERCLOCKWISE. MOVE THE SIDE RAILS IN UNTIL BOTH SIDE RAILS COME IN CONTACT WITH THE BOX. RELOCK THE SIDE RAILS BY TURNING THE SIDE RAIL LOCK HAND KNOB CLOCKWISE.

BELTS:

TWO ENDLESS BELTS LOCATED ON THE BED OF THE MACHINE DRIVE THE BOX THROUGH THE MACHINE. THE BELTS RUN OVER A DRIVE ROLLER LOCATED AT THE EXIT END OF THE MACHINE, AND ARE POSITIONED OVER THE INFEED ROLLERS LOCATED AT THE INFEED END.

TO REPLACE BELT, PULL OUT BELT TENSION HANDLE TO REMOVE TENSION. SLIDE BELT OFF OF FRONT ROLLER AND THEN OFF REAR DRIVE ROLLER TO REMOVE. TO INCREASE/DECREASE TENSION WHEN HANDLE IS IN OUT POSITION ROTATE TENSION KNOB TO CHANGE TENSION. REPLACE BELT MAKING SURE IT IS POSITIONED IN BELT GUIDE TRACK. CLOSE HANDLE MAKING SURE NOT TO OVER TENSION BELTS.

EACH BELT IS REPLACED SEPARATELY, HOWEVER, IT IS RECOMMENDED THAT BOTH BELTS BE REPLACED AT THE SAME TIME. IT IS IMPORTANT THAT FACTORY SUPPLIED BELTS BE USED SINCE THEY ARE OF SPECIAL CONSTRUCTION.

HEAD

THE HEAD RIDES ALONG THE MAST ON BEARINGS AND HIGH DENSITY POLYETHYLENE PADS. THE HEAD HEIGHT IS ADJUSTED BY TURNING THE HEAD VIBRATION LOCK KNOB COUNTERCLOCKWISE TO RELEASE THE HEAD. TURNING THE HAND CRANK CLOCKWISE WILL RAISE THE HEAD TO THE DESIRED POSITION.

BEARINGS:

IF ANY OF THE BEARINGS WHICH RUN AGAINST THE MAST NEED TO BE REPLACED, PROCEED AS FOLLOWS:

- DISCONNECT ELECTRICAL SUPPLY. PLACE A STURDY BOX/BLOCK ON BED OF MACHINE AND LOWER HEAD ONTO IT.
- REMOVE THE HARDWARE AND SNAP RINGS FROM THE SIDES OF THE HEAD TO REMOVE TROLLEY BEARINGS.
- BACK OFF NUTS BETWEEN BEARINGS WHILE TURNING THREADED SHAFT WITH A SCREW DRIVER UNTIL DEFECTIVE BEARING CAN BE REMOVED.
- REVERSE ABOVE PROCEDURE TO REPLACE BEARING.

WHENEVER THE BEARINGS HAVE BEEN CHANGED, THE CLEARANCE BETWEEN THE HEAD AND THE MAST MUST BE RE-ALIGNED. THE CLEARANCE BETWEEN THE TEFLON SLIDES AND THE SIDES OF THE MAST SHOULD BE ADJUSTED TO APPROXIMATELY .020" (.5 mm). THIS SHOULD BE CHECKED THROUGH THE HEADS RANGE OF TRAVEL TO INSURE THAT THIS CLEARANCE EXISTS AT THE HIGH POINTS OF THE MAST.

THE CLEARANCE BETWEEN THE BEARINGS AND THE FRONT AND REAR SURFACES OF THE MAST SHOULD BE SUCH THAT THE HEAD MOVES FREELY AND DOES NOT COCK OR SAG.

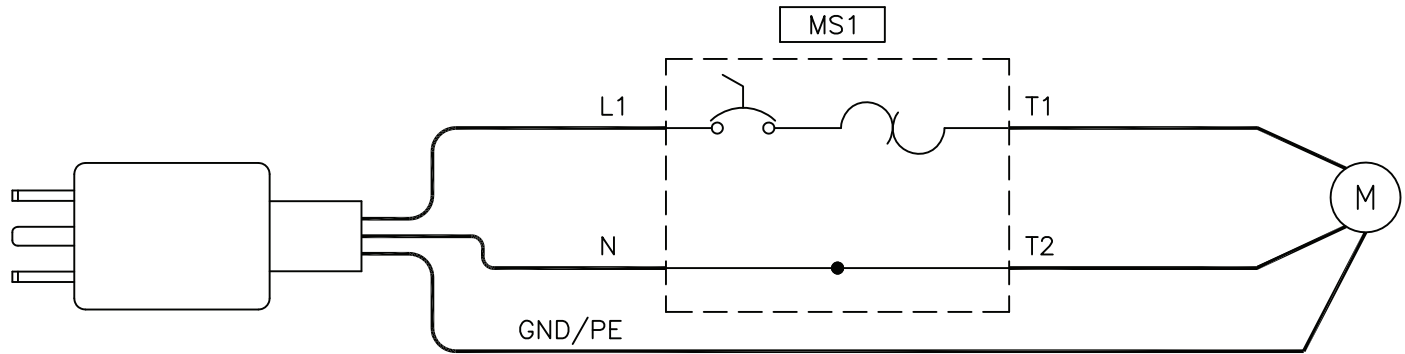
ELECTRICAL SYSTEM

THE ELECTRICAL SYSTEM CONSISTS OF A FRACTIONAL HP DRIVE MOTOR AND THE STARTER SWITCH. THE MOTOR AND FRAME ARE GROUNDED THROUGH THE ELECTRICAL CONNECTOR.

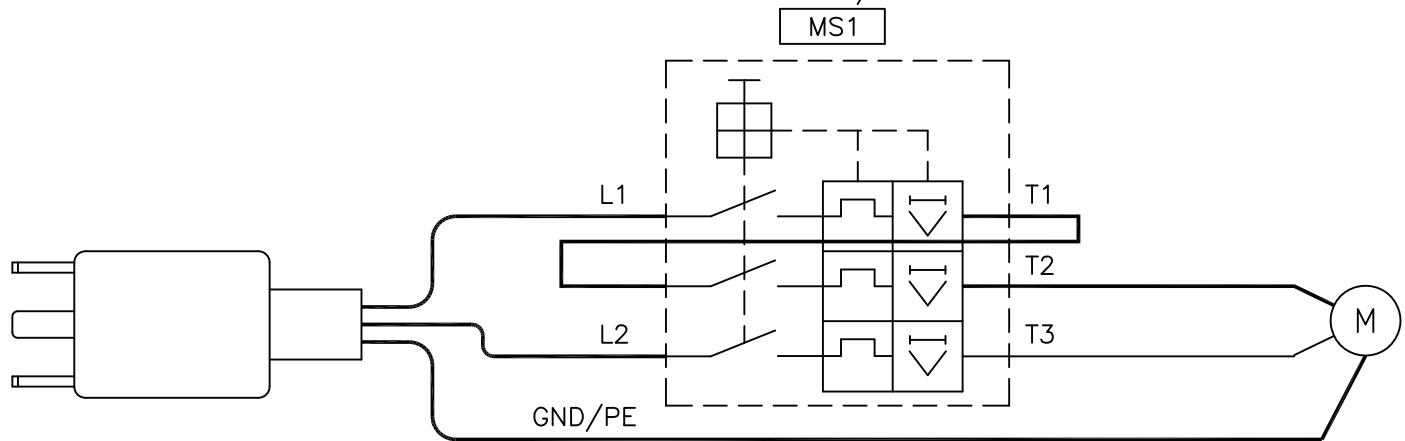
THE CIRCUIT BREAKER IS FACTORY SET. IF IT TRIPS, IT SHOULD BE RESET AFTER INSPECTION OF THE ELECTRICAL SYSTEM.

WARNING: THE INSPECTION OF THE ELECTRICAL SYSTEM SHOULD BE DONE BY A QUALIFIED ELECTRICIAN **ONLY!**

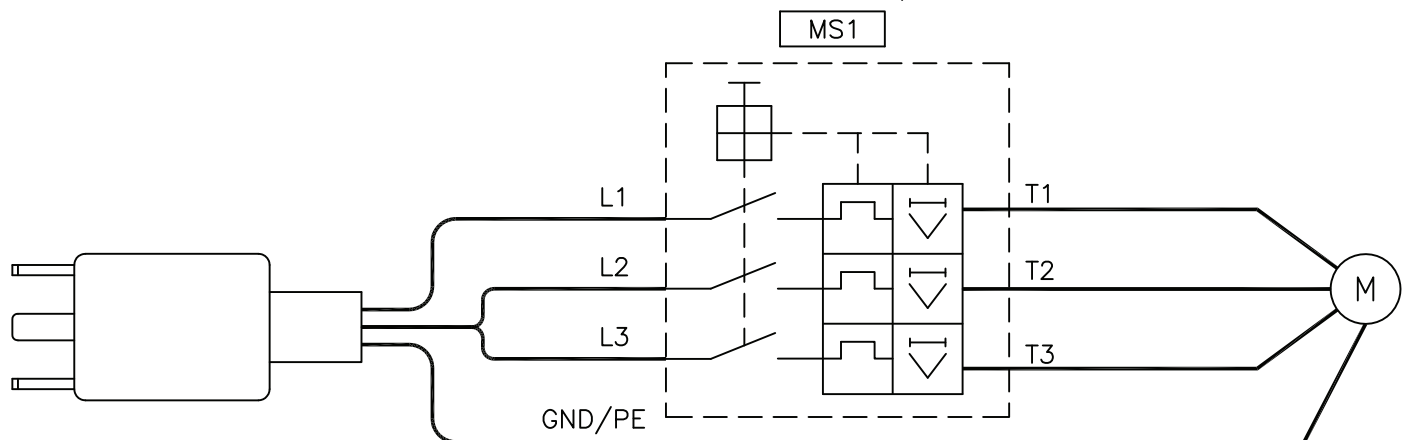
ELECTRICAL SCHEMATIC
LEGEND, LD7, LD3, AND LDX
120 VAC 60HZ



SINGLE PHASE 50/60 HZ MODELS



THREE PHASE 50/60 HZ MODELS



LUBRICATION

ALL MECHANICAL PARTS ON THE LITTLE DAVID ARE PERMANENTLY LUBRICATED AND SEALED BEARINGS ARE USED THROUGHOUT.

THE REDUCER IS A SEALED UNIT.

THE MAST SHOULD BE CLEANED AND SPRAYED WITH A SILICONE LUBRICANT - THIS SHOULD BE DONE ON A WEEKLY BASIS TO ENSURE FREE MOVEMENT OF THE HEAD.

TROUBLE SHOOTING

TAPING DIFFICULTIES:

1. TAPE DOES NOT ADHERE WELL TO BOX:

1. CHECK THAT BOX IS NOT WAXY OR OILY.
2. CHECK THAT BOX IS PROPERLY CUT AND SCORED SO THAT THE FLAPS DO NOT OVERLAP. IF THE TAPE ADHERES TO THE TOP AND BOTTOM BUT NOT TO THE END PANELS, THE BOX MAY BE SKEWED FORMING A PARALLELOGRAM. IF THIS CONDITION EXISTS, BRING IT TO THE ATTENTION OF YOUR BOX SUPPLIER.
3. CHECK THE PRESSURE ON THE WIPE DOWN ROLLERS. IF NECESSARY, INCREASE THE MAIN SPRING PRESSURE.
4. CHECK THAT THE SPRING IS NOT BROKEN.

2. TAPE END STICKS TO ITSELF OR MECHANISM:

1. CHECK THAT THERE IS NOT TOO MUCH DRAG ON THE TAPE CAUSING STRETCHING AND SNAP BACK AT CUT OFF. REDUCE THE TAPE CORE DRAG SETTING.
2. CHECK THE TAPE THREADING PATH.
3. CHECK FOR DEFECTIVE TAPE ROLL BY PULLING TAPE OFF MANUALLY. THE PULL SHOULD BE EVEN AND NOT VARY SUDDENLY.
4. CHECK TAPE GUIDE PLATE SETTING AND FREEDOM OF MOVEMENT.
5. CHECK ROLLER FOR BINDING.

3. TAPE BREAKS OR JAMS:

1. CHECK THE TAPE ROLL BY PULLING TAPE OFF MANUALLY. THE PULL SHOULD BE EVEN AND SHOULD NOT VARY SUDDENLY.
2. CHECK THE TAPE CORE DRAG SETTING.
3. CHECK THE TAPE THREADING PATH.
4. CHECK FOR NICKS IN EDGE OF TAPE ROLL. PULL OFF DAMAGED TAPE.
5. TAPE TENSION SET TOO HIGH.

4. TAPE WRINKLES:

1. CHECK THE TAPE ROLL BY PULLING TAPE OFF MANUALLY. THE PULL SHOULD BE EVEN AND SHOULD NOT VARY SUDDENLY.
2. CHECK THE PRESSURE OF THE WIPE DOWN ROLLERS. TOO MUCH OR NO PRESSURE MAY CAUSE WRINKLES. PRESSURE THAT IS TOO GREAT MAY DEPRESS THE FLAPS CAUSING PROBLEMS. IF NECESSARY, RE-ADJUST THE PRESSURE.
3. CHECK THAT ALL THE ROLLERS TURN FREELY ON THEIR SHAFTS.
4. CHECK THE BOX CONTENTS. PARTIALLY FULL BOXES OR VERY COMPRESSIBLE CONTENTS MAY ALLOW THE FLAPS TO DEPRESS EXCESSIVELY CAUSING WRINKLES.
5. CHECK THE DRAG OF THE TAPE. TOO MUCH DRAG MAY CAUSE OVERRUNNING OF THE TAPE ROLL. ADJUST THE TAPE CORE DRAG SETTING.
6. TAPE TENSION SET TOO HIGH.
7. CHECK ROLLER STOP INSIDE CARTRIDGE.
8. CHECK THAT THE TAPE IS PROPERLY THREADED AND THAT TAPE CORE IS PROPERLY CENTERED.

TROUBLE SHOOTING

9. CHECK THE PRESSURE OF THE HEAD AGAINST THE BELTS AND HESITATE AS IT IS BEING FED THROUGH THE MACHINE. ADJUST THE HEAD HEIGHT.
 10. CHECK THAT THE BELTS ARE NOT SLIPPING.
 11. CHECK ADJUSTMENT OF THE GUIDE PLATE AND FINGER PLATE.
5. SHORT TAPE TAB ON BOX:
1. CHECK TAPE TENSION.
 2. CHECK ROLLERS FOR BINDING.
6. TAPE NOT BEING WIPED ON BOTTOM OF BOX:
- THERE ARE LARGE ECCENTRIC STOPS THAT ARE FACTORY SET TO INSURE THAT FRONT ROLLER ARM CANNOT BE DEPRESSED BELOW BOX HEIGHT. THEY ARE LOCATED INSIDE CARTRIDGE ON BOTH SIDES. WHEN FULLY DEPRESSED, FRONT WIPE ROLLER SHOULD PROTRUDE 3/32" ABOVE CARTRIDGE FRAME. IF THIS NEEDS ADJUSTING, ROTATE THE ECCENTRIC STOPS. USE BOTH STOPS AND MAKE SURE ROLLER ARM CONTACTS FLAT SURFACES. WHEN PROCESSING BOXES LESS THAN 5" HIGH, THE ECCENTRIC STOPS MUST BE MOVED TO THE OPPOSITE HOLE IN THE CARTRIDGE FRAME. THE FRONT ROLLER SHOULD THEN PROTRUDE TO BELT LEVEL.
7. TAPE NOT CUTTING:
1. CHECK KNIFE ARM FOR MECHANICAL BINDING.
 2. CHECK THAT KNIFE IS NOT DULL.
 3. CHECK SPRINGS ON KNIFE STUDS.
 4. CHECK BUSHINGS IN KNIFE STUDS.
 5. IF KNIFE STOP BLOCK IS CAUSING FRICTION ON KNIFE STUDS, ROTATE UNTIL FREE.
 6. TAPE TENSION IS SET TOO LOW.
8. TAPE NOT CENTERED ON BOX:
1. USE SCREW IN CENTER OF TAPE CORE TO RE-ALIGN.
9. TAPE NOT BEING WIPED:
1. CHECK MAIN SPRING.
 2. TAPE TENSION IS SET TOO HIGH.

BOX PROBLEMS:

BOXES JAMMING IN MACHINE:

1. JAM CLEARING PROCEDURE:

1. STOP MACHINE.
2. OPEN SIDE RAILS AND RAISE HEAD.
3. REMOVE JAMMED BOXES. CUT TAPE FLUSH WITH END OF WIPE ROLLER.
4. RESET HEAD AND SIDE RAILS TO A SAMPLE SIZE BOX.
5. START MACHINE. MACHINE IS NOW READY TO PROCESS THE NEXT BOX.

2. INCORRECT BOX SIZE OR SHAPE:

1. CHECK BOXES TO MAKE SURE THE SIZE FALLS WITHIN THE LIMITS OF THE MACHINE.
2. MACHINE WILL NOT PROCESS UNSTABLE BOXES.

3. CONTENTS BULGING THROUGH TOP OF BOX:

1. CHECK TO BE SURE BOX IS NOT OVERFILLED WITH CONTENTS.

4. BOX SLIPPING AGAINST BELTS:

1. INCREASE HEAD PRESSURE.

5. SIDE RAIL PRESSURE TOO HIGH:

1. OPEN SIDE RAILS SLIGHTLY.

6. HEAD PRESSURE TOO HIGH:

1. RAISE HEAD SLIGHTLY.

BELT DRIVE PROBLEMS:

CHECK THAT MACHINE IS CONNECTED TO A LIVE ELECTRICAL SOURCE.

1. BELTS SLIP:

1. RAISE HEAD SLIGHTLY.
2. CHECK BELT TENSIONING. INCREASE IF NECESSARY.

2. BOX SLIPS AGAINST BELTS:

1. LOWER HEAD SLIGHTLY TO INCREASE PRESSURE ON BOX.

3. BELTS RUB AGAINST FRAME:

1. CHECK THAT BELTS ARE POSITIONED CORRECTLY IN BETWEEN THE BELT GUIDE.

TAPE CARTRIDGE

TAPE TENSION ROLLER:

THE TAPE TENSION ROLLER MAINTAINS CONSTANT TENSION THROUGHOUT THE LIFE OF THE TAPE ROLL. IT HAS A ONE-WAY CLUTCH TO PREVENT PULL BACK ON TAPE. TURNING THE NYLOK NUT CLOCKWISE INCREASES THE TENSION. COUNTERCLOCKWISE DECREASES TENSION. TOO MUCH TENSION WILL CAUSE PROBLEMS.

WIPE DOWN ROLLERS:

THE RUBBER WIPE DOWN ROLLERS WIPE THE TAPE ONTO THE BOX AS IT PASSES THROUGH THE MACHINE. THE FRONT ROLLER HAS A ONE-WAY CLUTCH TO PREVENT KICKBACK OF TAPE. THE PRESSURE EXERTED BY THE ROLLERS IS ADJUSTABLE BY CHANGING THE POSITION OF THE MAIN SPRING TO A DIFFERENT HOLE ON THE MAIN TIE BAR. THE PRESSURE SHOULD BE SUFFICIENT TO OBTAIN A GOOD WIPE. TOO MUCH PRESSURE CAN CAUSE PREMATURE WEAR. PRESSURE SHOULD BE REDUCED WITH UNDER FILL OR COMPRESSIBLE CONTENTS.

TAPE GUIDE PLATE:

THE TAPE IS GUIDED TO THE FRONT ROLLER BY THE GUIDE PLATE. THE FLAT PORTION OF THIS PLATE MUST BE TANGENT TO THE RUBBER ROLLER FOR PROPER FUNCTION. THIS IS ADJUSTABLE BY ROTATING THE ECCENTRIC STOP IT BEARS AGAINST. THE TAPE GUIDE PLATE IN CONJUNCTION WITH THE FINGER PLATE FORMS THE TAPE WHICH ALLOWS IT TO STAND UP. THE TAPE GUIDE PLATE MOVES AS THE BOX PASSES, TO FORM A CORNER. THIS ENSURES SMOOTH TIGHT TAPE APPLICABLE TO THE LEADING CORNER OF THE BOX.

FINGER PLATE:

THE FINGER PLATE PRESSES AGAINST THE ADHESIVE SIDE OF THE TAPE AND FORCES THE TAPE TO TAKE THE SHAPE OF THE TAPE GUIDE PLATE. IT IS IMPORTANT THAT THE FINGERS JUST MAKE CONTACT WITH THE TAPE GUIDE PLATE, WHEN THERE IS NO TAPE IN CARTRIDGE. IF AN ADJUSTMENT IS NECESSARY GENTLY BEND THE FINGERS NEAR THE TIPS. ONLY BEND A SMALL AMOUNT, THEN CHECK. FINGERS MUST CONTACT PLATE. WHEN THE GUIDE PLATE IS MOVED THE FINGERS SHOULD NOT FOLLOW. NOTE: FINGERS SHOULD BE ABLE TO MOVE 1/8" AWAY FROM PLATE.

KNIFE ARM:

THE KNIFE ARM IS MOUNTED AT AN ANGLE TO CUT THE TAPE LIKE A SCISSORS. A STUD LOCATED ON THE MOUNTING BLOCK TO PREVENT INCORRECT REPLACEMENT OF KNIFE. THE KNIFE SHOULD BE CLEANED PERIODICALLY USING A RAG AND CLEANING FLUID. DO NOT USE A WIRE BRUSH OR OTHER ABRASIVE DEVICE. THE KNIFE ARM SHOULD BE ADJUSTED SO THAT THE TIPS OF THE KNIFE ARM ARE 2 1/2" FROM THE CARTRIDGE FRAME. THIS CAN BE ADJUSTED BY LOOSENING THE SMALL NUT ON THE KNIFE ARM STUD AND ROTATING THE STUD UNTIL THE LARGE NUT CONTACTS THE BUMPER AT THE DESIRED SETTING. KNIFE ARM TENSION IS CONTROLLED BY THE COMPRESSION SPRING ON THE STUD. TIGHTEN THE NYLOK NUT FOR GREATER TENSION. ALWAYS POWER DOWN MACHINE FIRST.

LOADING TAPE:

TOP TAPE:

1. RETRACT DETENT WITH RIGHT HAND.
2. WITH LEFT HAND, GRAB CARTRIDGE NEAR TAPE CORE AND ROTATE UP/BACK.
3. LOAD TAPE ON TAPE CORE.
4. FOLD TAPE ON ITSELF TO PREVENT ADHESIVE FROM GRABBING CARTRIDGE (ABOUT 1 FT. IN LENGTH).
5. THREAD AS PER DIAGRAM LOCATED ON TAPE CARTRIDGE.
6. ROTATE REAR ROLLER ARM TO EXPOSE KNIFE.
7. PULL EXCESS TAPE ACROSS KNIFE TO CUT OFF FOLDED TAPE.
8. RELEASE REAR ROLLER ARM.
9. GRAB TAPE ROLL WITH LEFT HAND AND ROTATE CARTRIDGE UNTIL IT CONTACTS DETENT. MAINTAIN GRIP OF TAPE ROLL WITH LEFT HAND WHILE RETRACTING DETENT WITH RIGHT HAND. LOWER CARTRIDGE INTO PLACE.

BOTTOM TAPE:

1. GRAB REAR ROLLERS.
2. GRAB FRONT SHAFT OF CARTRIDGE.
3. RAISE REAR OF CARTRIDGE AND MOVE CARTRIDGE UP AND OUT OF MACHINE.
4. THREADING IS THE SAME AS TOP CARTRIDGE.
5. GRABBING THE CARTRIDGE BY REAR ROLLER AND FRONT SHAFT, ANGLE FRONT OF CARTRIDGE ONTO MOUNTING BOLTS AND THEN LOWER REAR OF CARTRIDGE.

***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:

<u>DRIVE MOTOR</u> -	2 YEARS
<u>GEAR REDUCER</u> -	2 YEARS
<u>GEAR MOTOR</u> -	2 YEARS
<u>TAPE CARTRIDGE</u> -	3 YEARS

(THIS APPLIES TO SIDE BELTS ONLY)

(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.)

<u>PLC</u> -	1 YEAR
<u>SERVO DRIVE</u> -	1 YEAR
<u>ALL OTHER PARTS</u> -	1 YEAR

(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.)

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 REPLACEMENTS /REPAIRS MUST BE MADE BY LOVESHAW OR A LOVESHAW 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, BOX 83 SOUTH CANAAN, PA 18459
TEL: 570.937.4921 - 800.572.3434 - FAX: 570.937.3229

LOVESHAW an **ITW** Company

ILLUSTRATED REPLACEMENT PARTS TABLE OF CONTENTS

MAIN ASSEMBLY - FOOTPRINT

MAIN ASSEMBLY - OVERVIEW

FRAME ASSEMBLY

HEAD ASSEMBLY

TOP SQUEEZER ASSEMBLY

SIDE RAIL ASSEMBLY

MAST ASSEMBLY

BELT DRIVE ASSEMBLY

BELT TENSION ASSEMBLY

ELECTRICAL ASSEMBLY

ELECTRICAL BOX ASSEMBLY

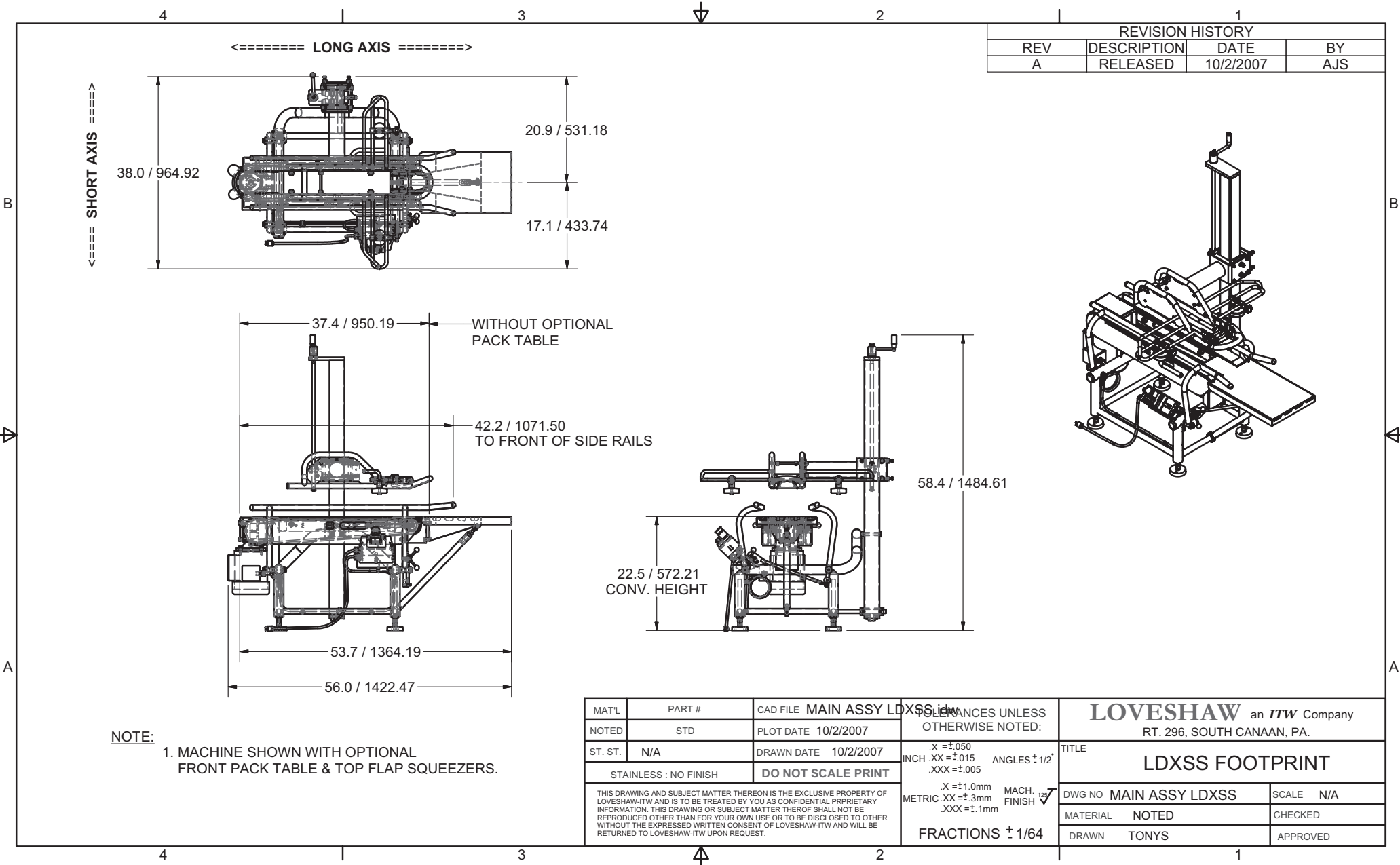
MOTOR ASSEMBLY

INFEEED TABLE ASSEMBLY

EXIT TABLE ASSEMBLY

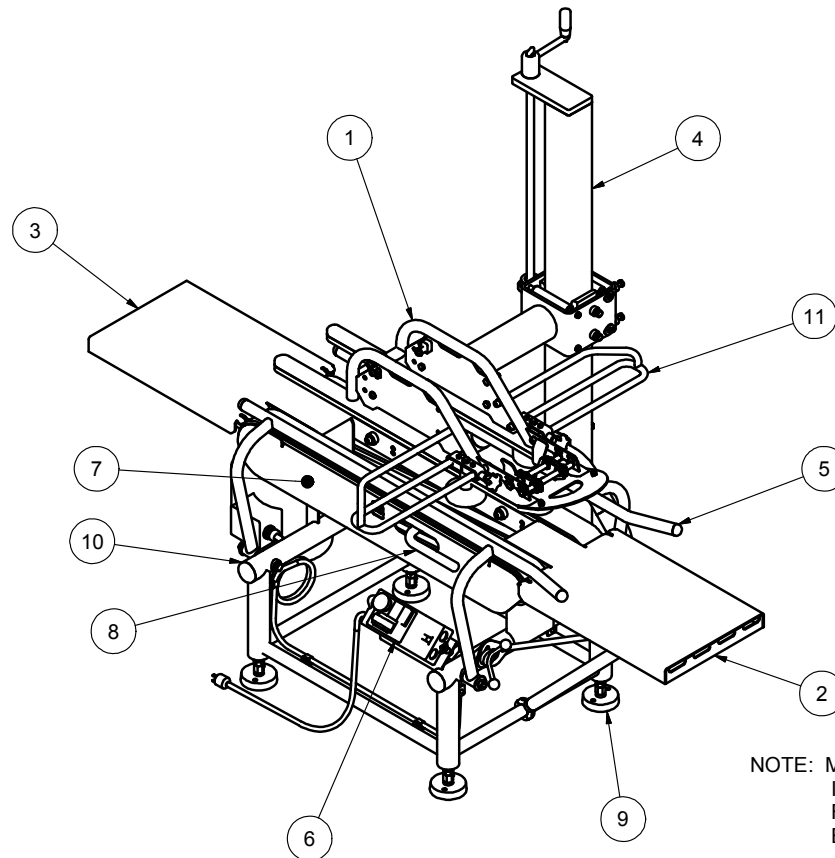
LEVELER PAD ASSEMBLY

CASTER ASSEMBLY



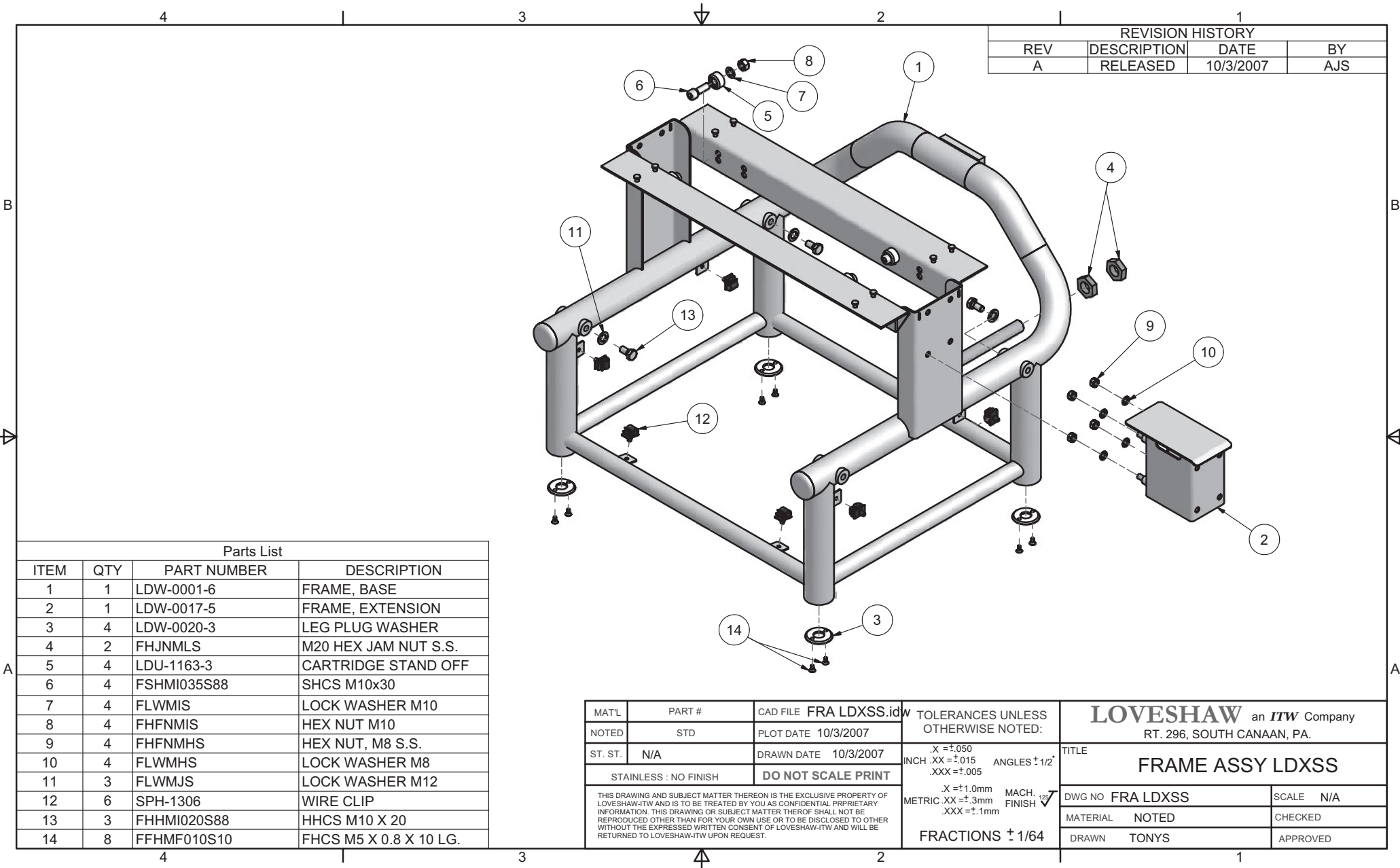
REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/13/2011	KK

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	HDA LDXSS IS	HEAD ASSY. LDXSS W/ INTEGRAL SKI'S
2	1	ITA LDXSS HD	INFEED TABLE LDXSS (FRT. HD)
3	1	ETA LDXSS	EXIT TABLE ASSY LDX S.S.
4	1	MA LDXSS	MAST ASSY. LDXSS
5	1	SRA LDXSS	SIDE RAIL ASSY. LDXSS
6	1	LXCAN4-120160	ELECT. ASSY. 120/1/60 NEMA 4
7	1	BDA LDXSS	BELT DRIVE ASSY. LDXSS
8	2	BTA LDXSS	BELT TENSION ASSY. LDXSS
9	1	LPA LDXSS	LEVELER PAD ASSY. LDXSS
10	1	FRA LDXSS	FRAME ASSY LDXSS
11	1	TSA LDXSS	TOP SQUEEZER ASSY. LDXSS



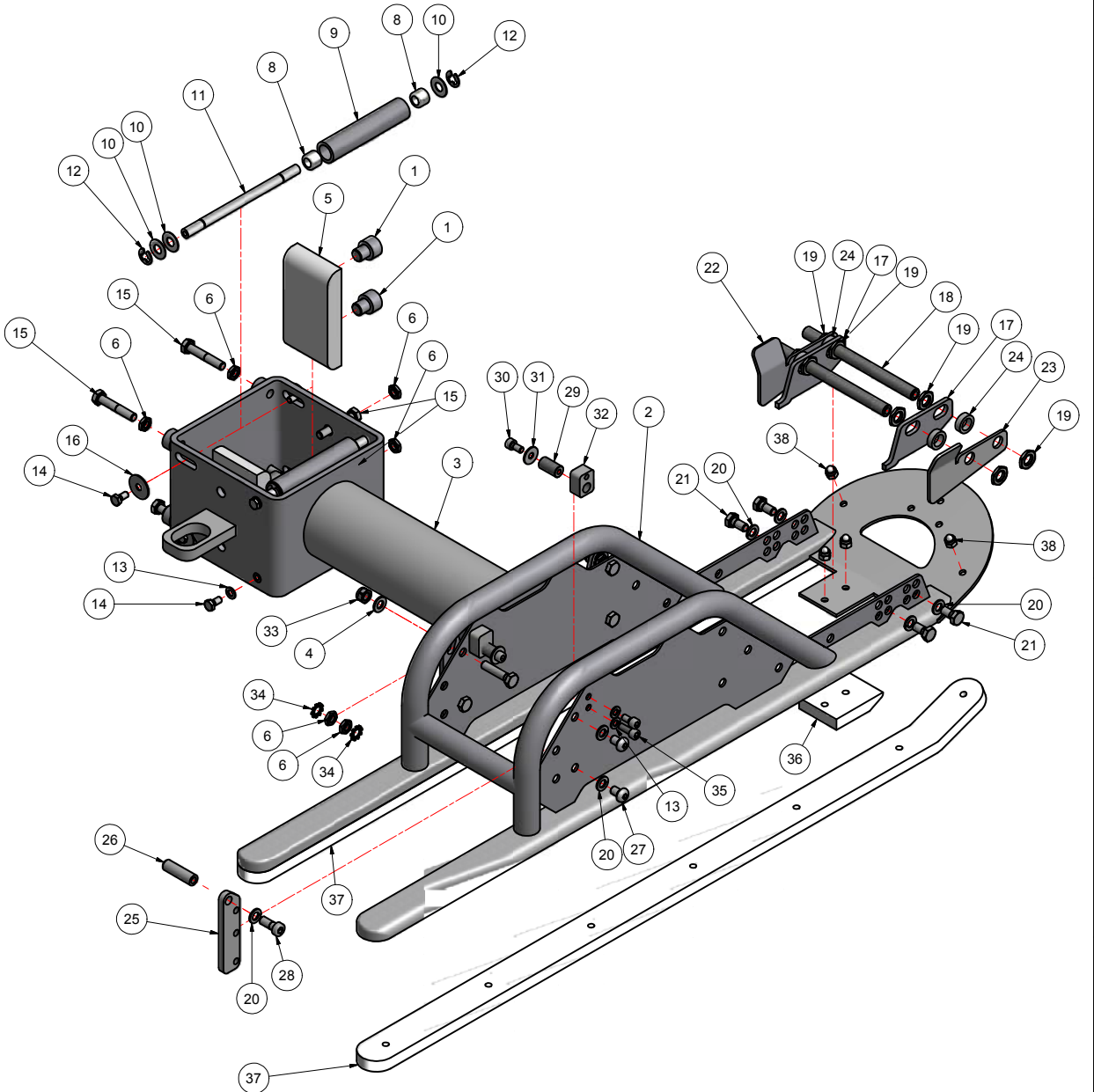
NOTE: MACHINE SHOWN WITH OPTIONAL INFEED / EXIT PACK TABLES, TOP FLAP SQUEEZERS AND NEMA 4 ELECTRIC.

MATL	PART #	CAD FILE	MAIN ASSY LDXSS IS OVERVIEW.dwg	<div>LOVESHAWan ITW Company</div> <div>RT. 296, SOUTH CANAAN, PA.</div>
	STD	PLOT DATE		
ST. ST.		DRAWN DATE	10/13/2011	<div>TITLEMAIN ASSY LDXSS WITH INTEGRAL SKIS</div> <div>DWG NO MAIN ASSY LDXSS ISSCALE</div> <div>MATERIALCHECKED</div> <div>DRAWN KENKAPPROVED</div>
STAINLESS : NO FINISH		DO NOT SCALE PRINT		
<div>THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEREOF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.</div>				
<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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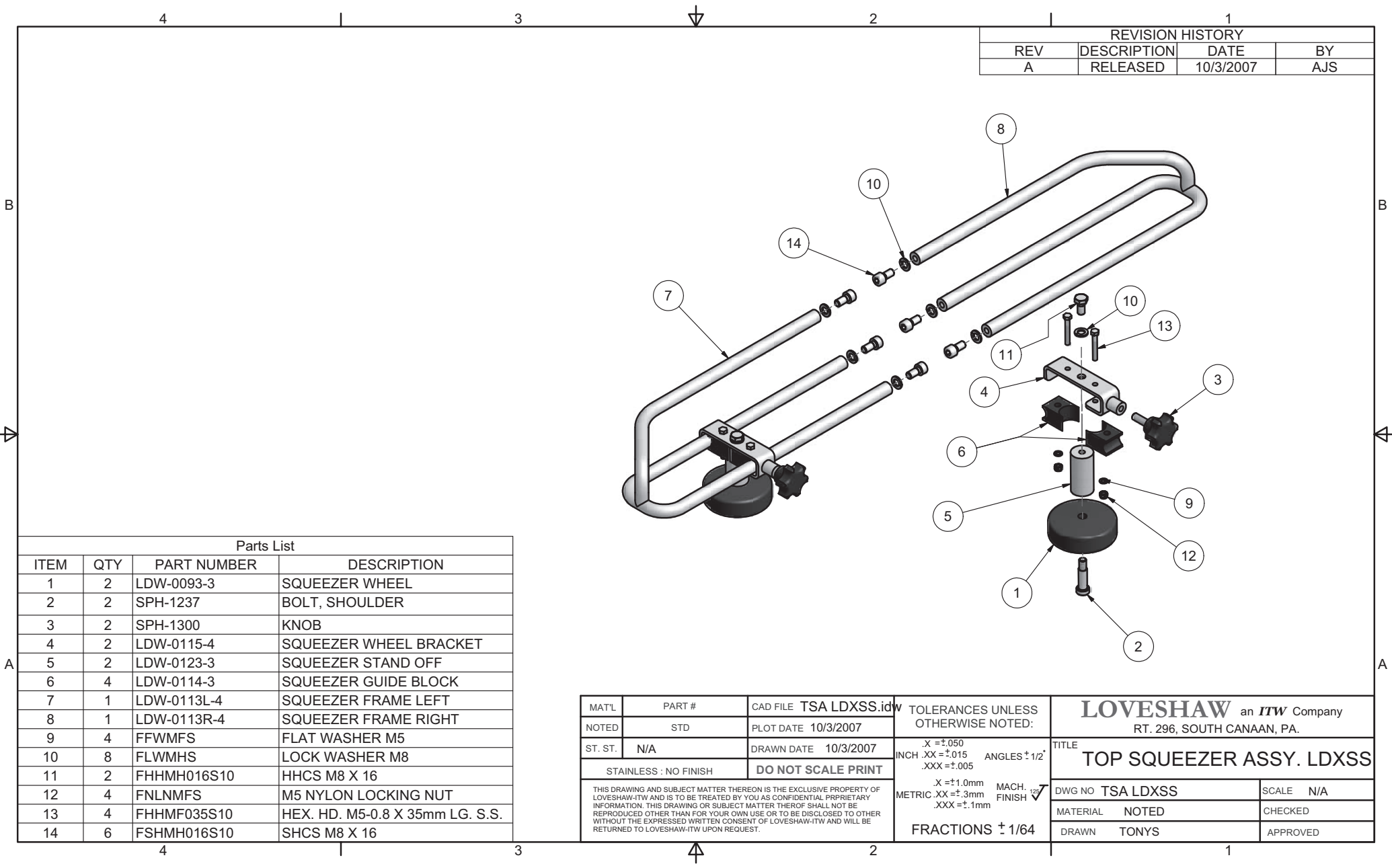


REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/13/2011	KK

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	LDW-0048-3	NECK STUD STANDOFF
2	1	LDW-0290-5SS	HEAD FRAME WELDMENT, ST.ST.
3	1	LDW-0047-5SS	HEAD FRAME NECK WELDMENT, ST.ST.
4	4	FFWMHS	FLAT WASHER M8 SS
5	2	LDW-0049-4	HEAD WEAR PAD
6	14	FHJNMHS	HEX JAM NUT, M8, S.S.
7	4	FHHMH035S10	HEX HD M8 X 35
8	8	J206-PS	BEARING
9	4	LDU-1261B-3	ROLLER
10	12	SPH-1296	WASHER
11	4	LDW-0103-3	SHAFT ROLLER
12	8	SPH-1297	E CLIP
13	8	FLWMGP	LOCK WASHER M6
14	8	FHHMG012P10	HHCS M6 X 12
15	6	FHHMH045P10	HEX HEAD M8 X 45mm LG
16	4	SPH-1298	WASHER
17	2	LDW-0209-4	TOP LOAD PLATE
18	2	LDW-0104-3SS	SHAFT TOP LOAD ADJ., ST.ST.
19	8	FHJNMJP	HEX JAM NUT M12
20	7	FLWMHP	LOCK WASHER M8
21	4	FHHMH016S10	HHCS M8 X 16 SS
22	1	LDW-0105L-3SS	CART. GUIDE PLATE LH, ST.ST.
23	1	LDW-0105R-3SS	CART. GUIDE PLATE RH, ST.ST.
24	4	LDW-0106-3SS	CART. GUIDE SPACER, ST.ST.
25	1	LDW-0276-4SS	BASE TIP BACK BRKT, ST.ST.
26	1	LDW-0251-3	BAR, TIP
27	2	FBHMH012P10	BH M8x12 LG.
28	1	FSHMH020P10	SHCS M8 X 20
29	2	LDW-0277A-3SS	STUD REAR MOUNT, ST.ST.
30	4	FSHMG012P10	SHCS M6 X 1.0 X 12 LG.
31	2	SPH-1435	WASHER
32	2	LDW-0278A-3SS	SPACER, STUD, ST.ST.
33	4	FNLNMHS	NYLOCK NUT M8 S.S.
34	8	FETLWMHS	External Tooth Lock Washer, M8 S.S.
35	2	FSHMG016S10	SHCS M6x16 LG. S.S.
36	1	LDW-0291-4	NOSE BOX GUIDE
37	2	LDW-0288-5	BOX GUIDE
38	4	FHDNMGs	HEX DOME NUT M6 S.S.



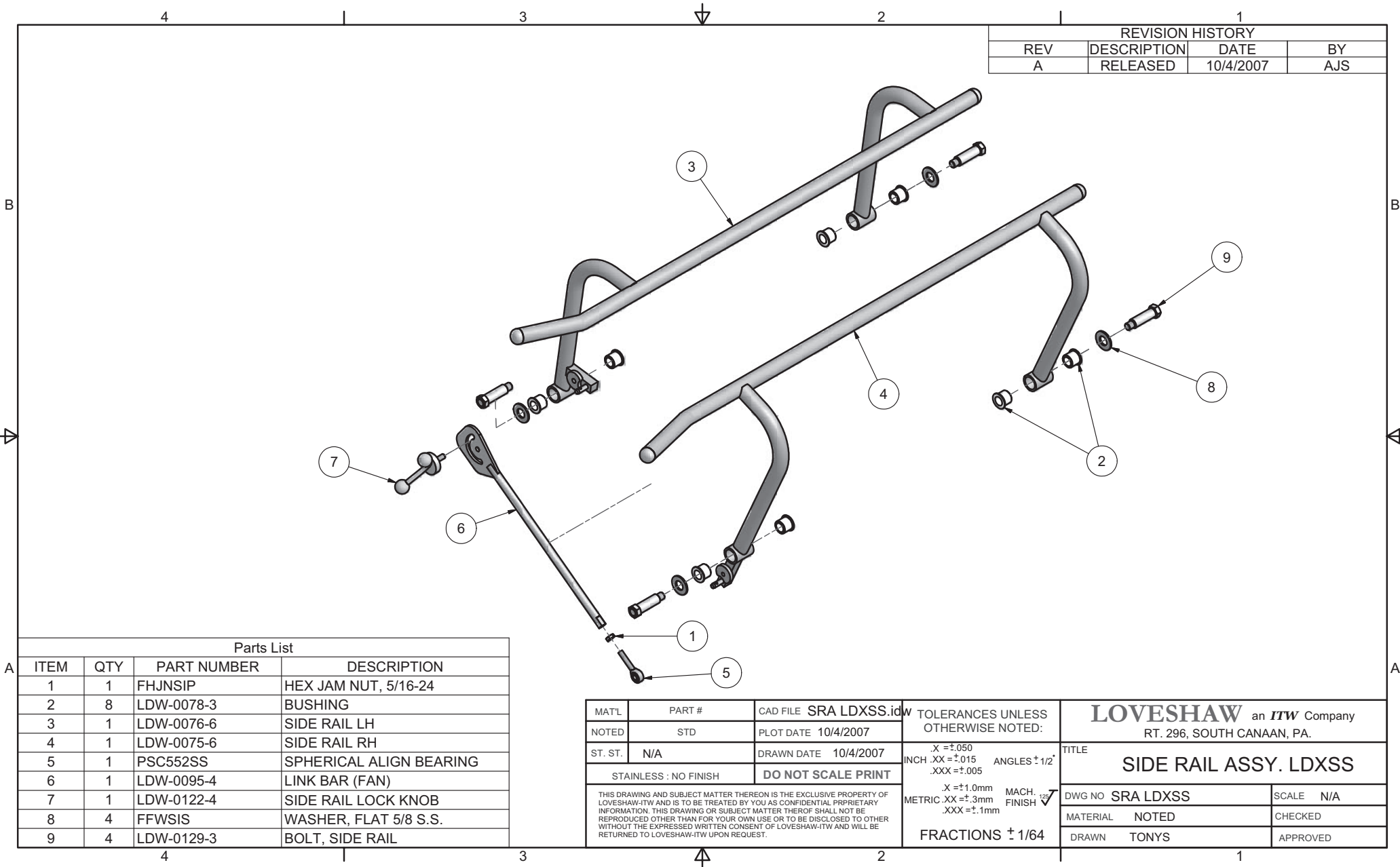
MATL	PART #	CAD FILE	HDA LDXSS IS	TOLERANCES UNLESS OTHERWISE NOTED:	LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.		
N/A	STD	PLOT DATE	10/13/2011	$X = \pm 0.05$ INCH $XX = \pm 0.15$ $XXX = \pm 0.05$	TITLE HEAD ASSY. LDXSS W/ INTEGRAL SKI'S		
ST. ST.	N/A	DRAWN DATE	10/13/2011	$X = \pm 1.0mm$ METRIC $XX = \pm 3mm$ $XXX = \pm 1.1mm$	DWG NO HDA LDXSS IS SCALE 5:16		
STAINLESS: NO FINISH		DO NOT SCALE PRINT		FINISH	MATERIAL N/A		
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW/ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEREOF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW/ITW AND WILL BE RETURNED TO LOVESHAW/ITW UPON REQUEST.				DRAWN KENK			
				CHECKED			
				APPROVED			
				FRACTIONS $\pm 1/64$			

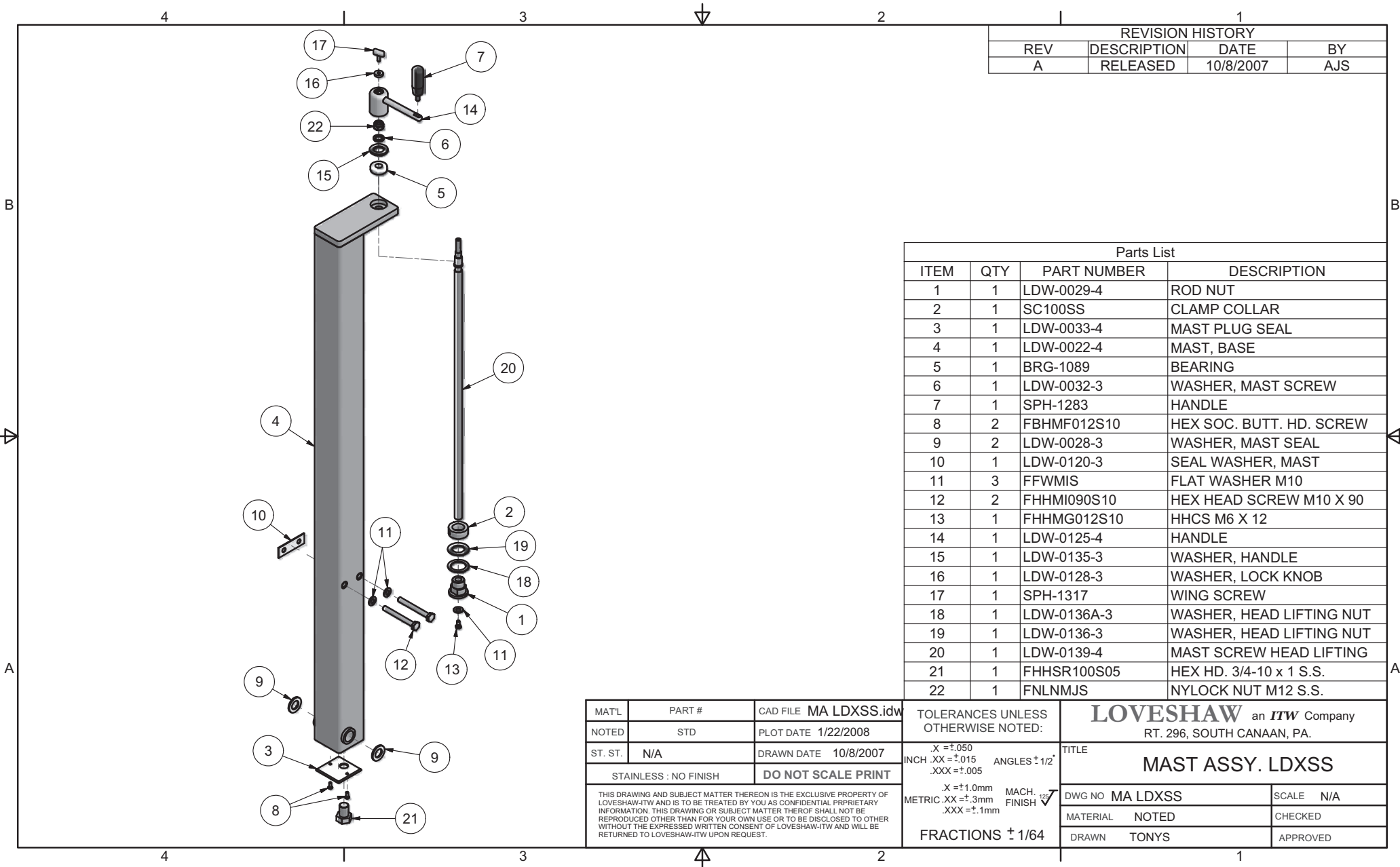


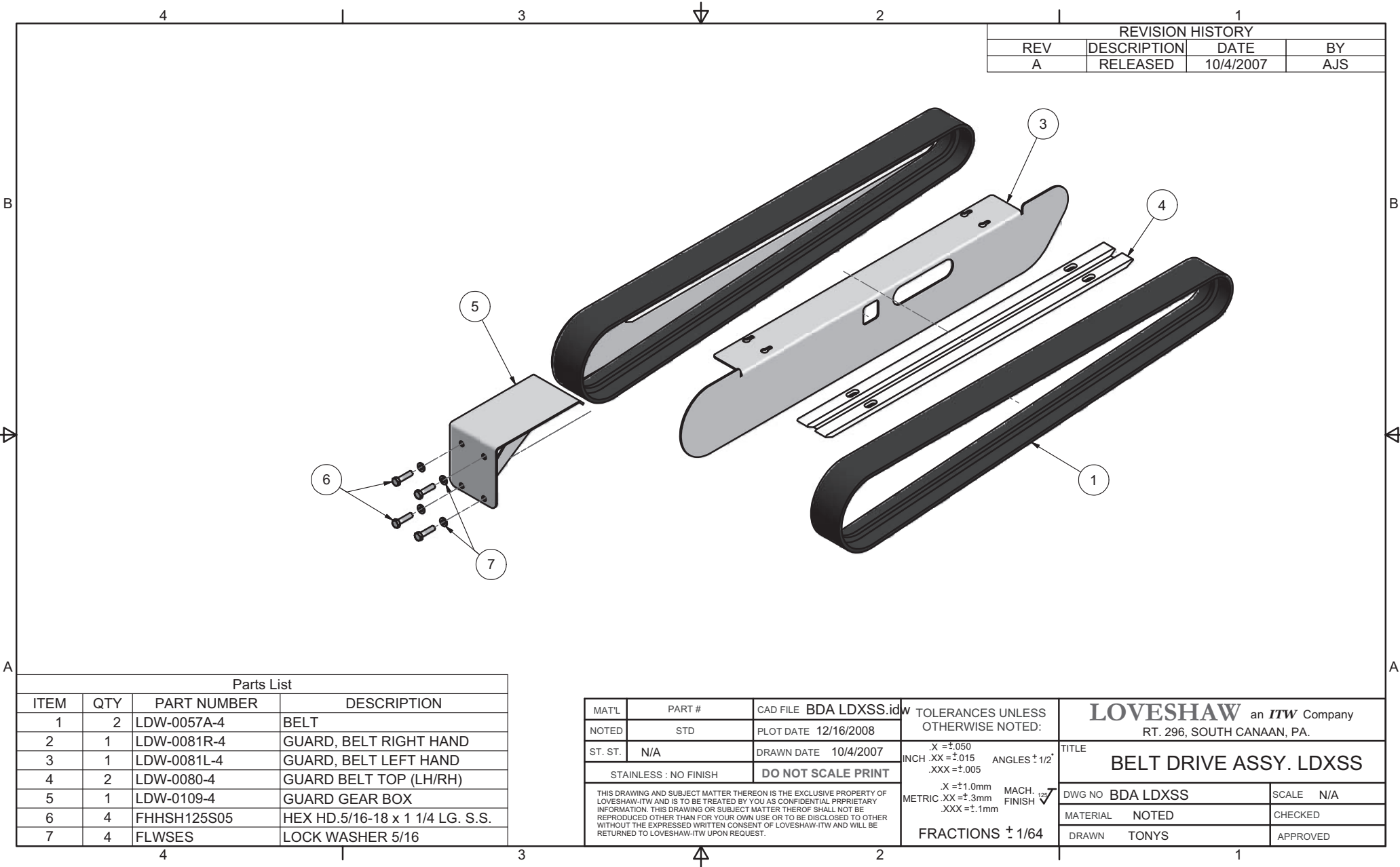
REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/3/2007	AJS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	LDW-0093-3	SQUEEZER WHEEL
2	2	SPH-1237	BOLT, SHOULDER
3	2	SPH-1300	KNOB
4	2	LDW-0115-4	SQUEEZER WHEEL BRACKET
5	2	LDW-0123-3	SQUEEZER STAND OFF
6	4	LDW-0114-3	SQUEEZER GUIDE BLOCK
7	1	LDW-0113L-4	SQUEEZER FRAME LEFT
8	1	LDW-0113R-4	SQUEEZER FRAME RIGHT
9	4	FFWMFS	FLAT WASHER M5
10	8	FLWMHS	LOCK WASHER M8
11	2	FHHMH016S10	HHCS M8 X 16
12	4	FNLNMFS	M5 NYLON LOCKING NUT
13	4	FHHMF035S10	HEX. HD. M5-0.8 X 35mm LG. S.S.
14	6	FSHMH016S10	SHCS M8 X 16

MATL	PART #	CAD FILE	TSA LDXSS.idw		TOLERANCES UNLESS OTHERWISE NOTED:		LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.		
NOTED	STD	PLOT DATE	10/3/2007		X =±.050 INCH .XX =±.015 .XXX =±.005		ANGLES ± 1/2°		
ST. ST.	N/A	DRAWN DATE	10/3/2007		X =±1.0mm METRIC .XX =±.3mm .XXX =±.1mm		MACH. FINISH ✓		
STAINLESS : NO FINISH		DO NOT SCALE PRINT		FRACTIONS ± 1/64					
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEREOF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.									
				TITLE		TOP SQUEEZER ASSY. LDXSS			
				DWG NO		TSA LDXSS		SCALE N/A	
				MATERIAL		NOTED		CHECKED	
				DRAWN		TONYS		APPROVED	





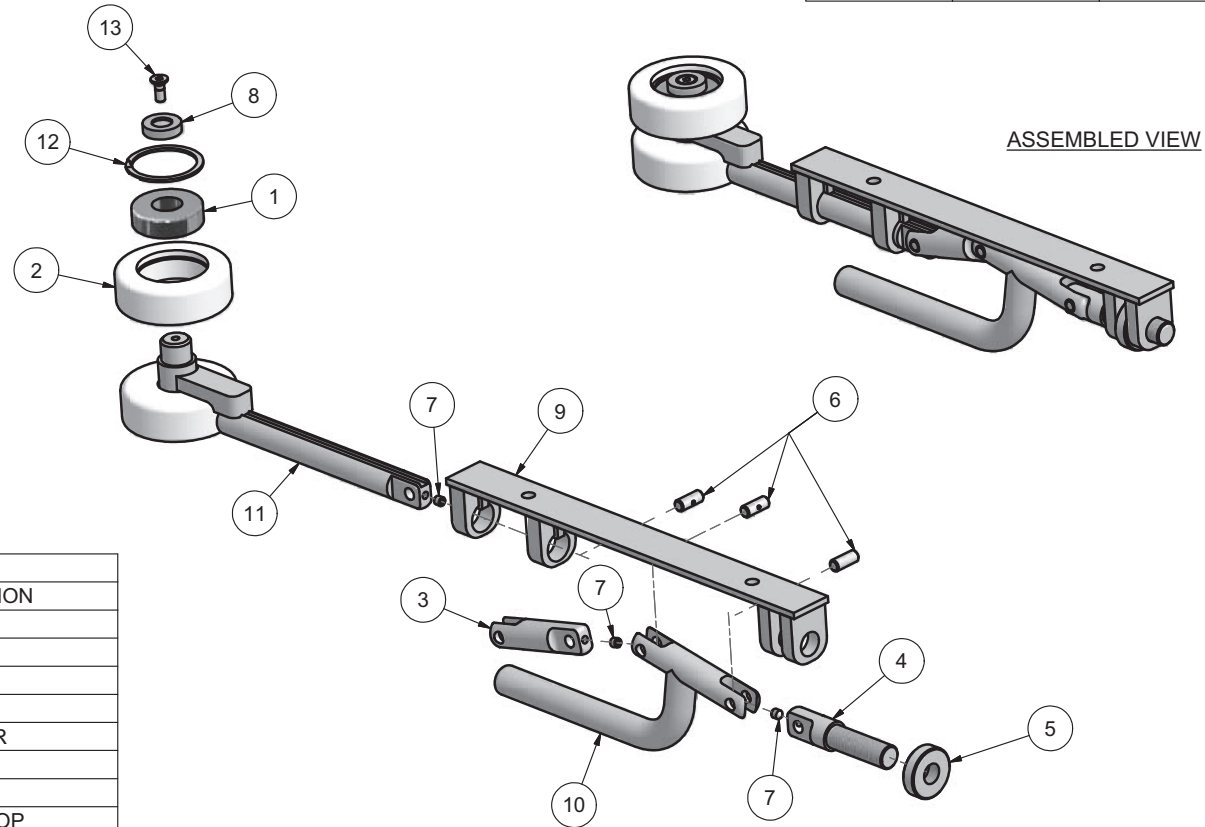


REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/4/2007	AJS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	LDW-0057A-4	BELT
2	1	LDW-0081R-4	GUARD, BELT RIGHT HAND
3	1	LDW-0081L-4	GUARD, BELT LEFT HAND
4	2	LDW-0080-4	GUARD BELT TOP (LH/RH)
5	1	LDW-0109-4	GUARD GEAR BOX
6	4	FHHSH125S05	HEX HD.5/16-18 x 1 1/4 LG. S.S.
7	4	FLWSES	LOCK WASHER 5/16

MATL	PART #	CAD FILE BDA LDXSS.idw	TOLERANCES UNLESS OTHERWISE NOTED:		LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.	
NOTED	STD	PLOT DATE 12/16/2008	X =±.050 INCH .XX =±.015 .XXX =±.005		TITLE BELT DRIVE ASSY. LDXSS	
ST. ST.	N/A	DRAWN DATE 10/4/2007	ANGLES ± 1/2° X =±1.0mm METRIC .XX =±.3mm .XXX =±.1mm		DWG NO BDA LDXSS	SCALE N/A
STAINLESS : NO FINISH		DO NOT SCALE PRINT	MACH. FINISH 125		MATERIAL NOTED	CHECKED
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEROF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.			FRACTIONS ± 1/64		DRAWN TONY S	APPROVED

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/4/2007	AJS

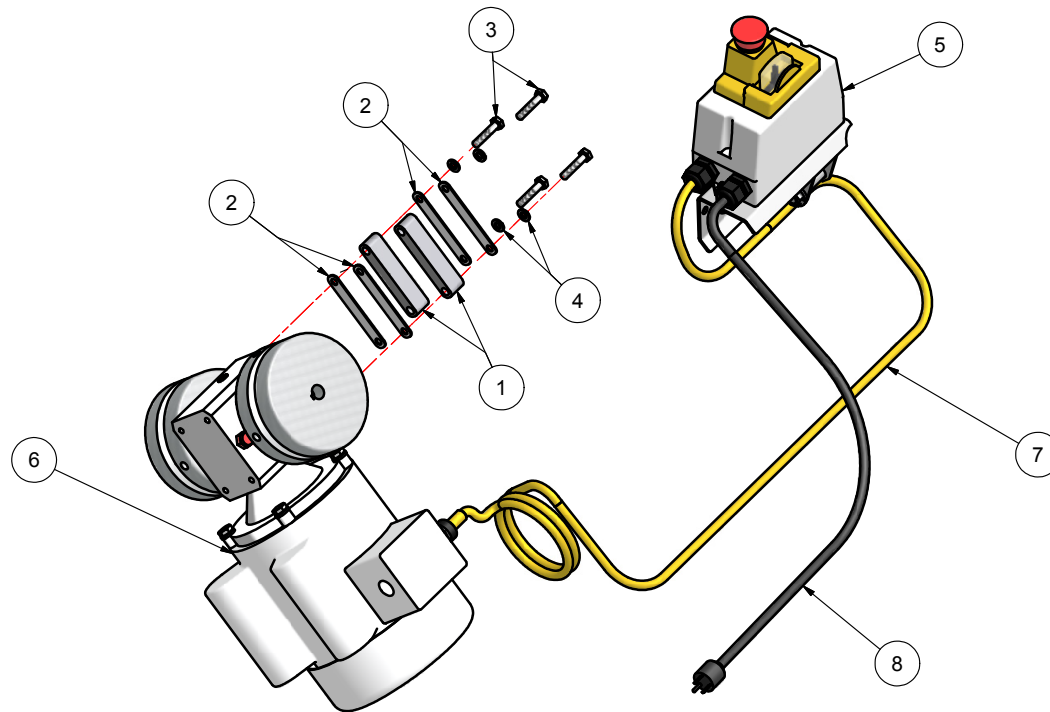


ASSEMBLED VIEW

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	BRG-1090	BEARING
2	2	LDW-0074-4	ROLLER, IDLER
3	1	LDW-0070-4	SLIDE LINK FRT.
4	1	LDW-0071-4	SLIDE ADJ. LINK
5	1	LDW-0072-3	WHEEL, ADJUSTER
6	3	LDW-0073-3	PIN, LINK
7	3	FCSMG008S10	SET SCREW
8	2	LDU-1304-3	IDLER ROLLER STOP
9	1	LDW-0064-4	BASE, TRB
10	1	LDW-0069-4	SLIDE LINK, HANDLE
11	1	LDW-0068-4	SLIDE BAR, WELDMENT
12	2	SPH-1311	RETAINING RING SPIRAL
13	2	FFHMG016S10	FHCS M6 X 1.0 X 16 LG.

MATL	PART #	CAD FILE	BTA LDXSS.idw	TOLERANCES UNLESS OTHERWISE NOTED:	LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.		
NOTED	STD	PLOT DATE	10/4/2007		TITLE		
ST. ST.	N/A	DRAWN DATE	10/4/2007	.X =±.050 INCH .XX =±.015 .XXX =±.005	Belt Tension Assy. LDXSS		
STAINLESS : NO FINISH		DO NOT SCALE PRINT		.X =±1.0mm METRIC .XX =±.3mm .XXX =±.1mm	DWG NO BTA LDXSS		
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				FRACTIONS ± 1/64		MATERIAL NOTED	
					CHECKED		
					DRAWN TONY S		
					APPROVED		

1			
REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/3/2007	AJS



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	LDW-0058-3SS	INSULATOR SPACER
2	4	LDW-0059-3	INSULATOR, GEAR BOX
3	4	FHHSH150S05	HH 5/16-18 x 1 1/2 LG S.S.
4	4	FLWSES	LOCK WASHER 5/16
5	1	EBA-WDCS-115V	ELECT. BOX ASSY. CASE SEALER
6	1	LXMAN4-120160	MOTOR ASSY. WASHDOWN
7	1	AH200-BH-15	CABLE, MOTOR 1 PHASE
8	1	PSC505A-115-4	LINE CABLE - 115V 1 PH

MATL	PART #	CAD FILE	LXCAN4-120160.dwg	FRACTIONS UNLESS OTHERWISE NOTED:	LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.	
NOTES	STD	PLOT DATE	10/2/2007	.X = ±.050 INCH .XX = ±.015 ANGLES ± 1/2° .XXX = ±.005	TITLE	ELECT. ASSY. 120A/1/60 NEMA 4
ST. ST.	N/A	DRAWN DATE	10/3/2007	.X = ±1.0mm METRIC .XX = ±.3mm MACH. FINISH ✓ .XXX = ±1.1mm	DWG NO	LXCAN4-120160 SCALE N/A
STAINLESS : NO FINISH		DO NOT SCALE PRINT		FRACTIONS ± 1/64	MATERIAL	NOTED CHECKED
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY US AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEREOF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.					DRAWN	TONYS APPROVED

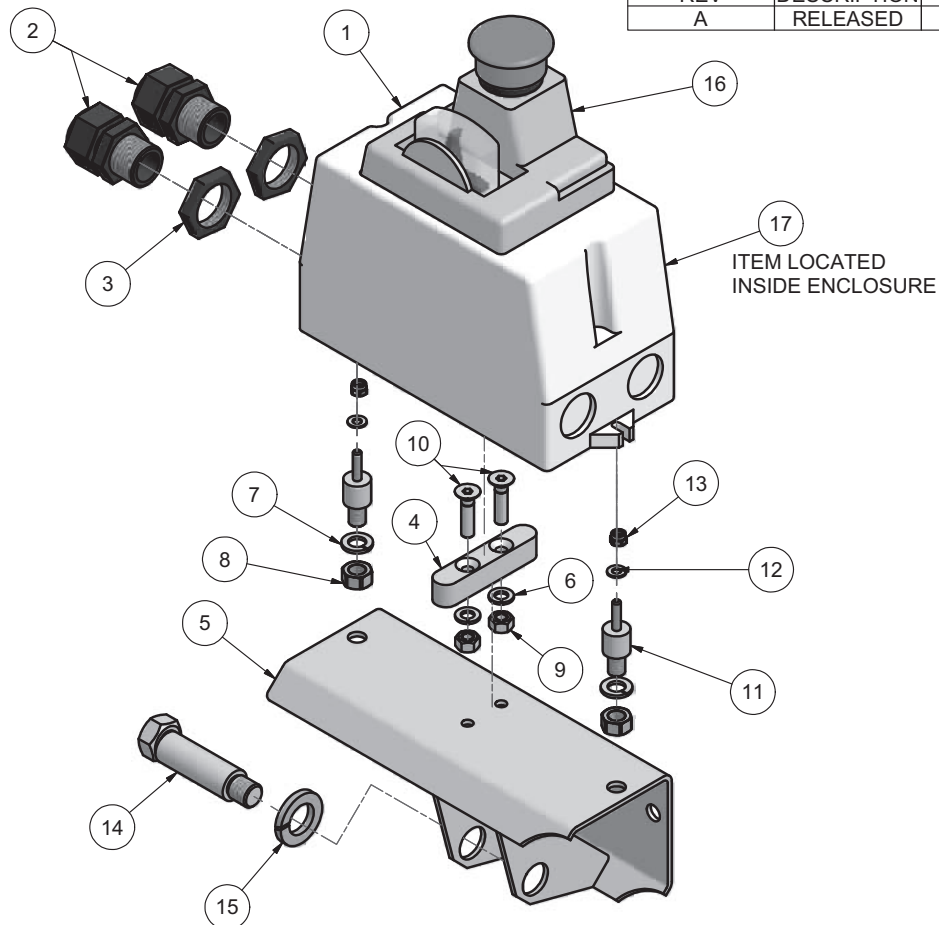
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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/3/2007	AJS



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PSC636-LOV-2	SURFACE MOUNT ENCLOSURE
2	2	AH199G	FITTING, STRAIN PG16
3	2	AH199GN	NUT, STRAIN RELIEF
4	1	LDW-0110-3	ELECT. BOX STAND OFF
5	1	LDW-0111-4	MOUNT, ELECT. BOX
6	2	FLWMGS	LOCK WASHER M6
7	2	FLWMHS	LOCK WASHER M8
8	2	FHFNMHS	HEX NUT M8 S.S.
9	2	FHFNMGS	HEX NUT M6
10	2	FFHMG025S10	FLAT HEAD SCREW M6 X 25
11	2	LDW-0112-3	ELECT. BOX STUD
12	2	FFWMES	FLAT WASHER M4
13	2	FNLNMS	NLN M4
14	1	LDW-0129-3	BOLT, SIDE RAIL
15	1	FLWMKS	LOCK WASHER SPRING M16
16	1	PSC636-LOV-1	OPERATOR w/ EMERGENCY STOP
17	1	PSC636-LOV-3	MANUAL MOTOR STARTER

MATL	PART #	CAD FILE	EBA WCS 120160.dwg	OTHER FRANCES UNLESS OTHERWISE NOTED:		LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.		
NOTED	STD	PLOT DATE	10/3/2007			ELECT. BOX ASSY. CASE SEALER		
ST. ST.	N/A	DRAWN DATE	10/3/2007	.X =±.050 INCH .XX =±.015 ANGLES ±1/2' .XXX =±.005		TITLE		
STAINLESS : NO FINISH		DO NOT SCALE PRINT		.X =±1.0mm MACH. FINISH ✓ METRIC .XX =±.3mm .XXX =±.1mm		DWG NO		EBA-WDCS-115V
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEREOF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.				FRACTIONS ± 1/64		SCALE		N/A
						MATERIAL		NOTED
						DRAWN		TONYS
						CHECKED		
						APPROVED		

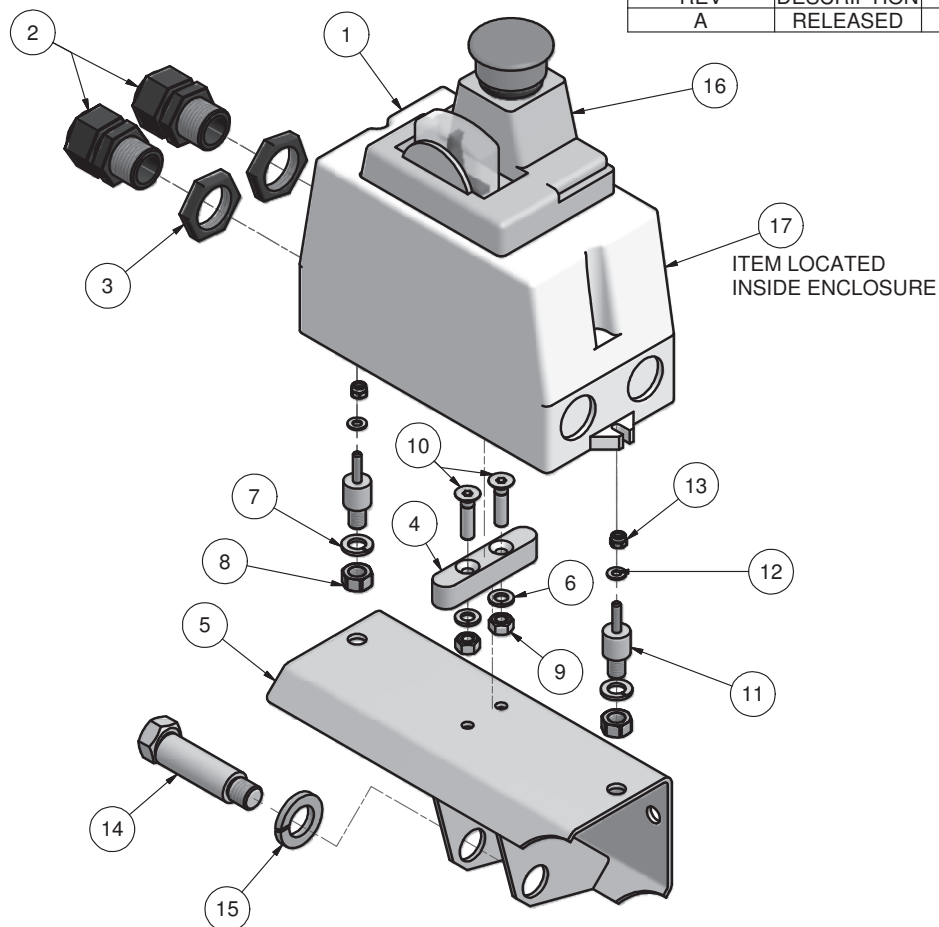
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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/3/2007	AJS

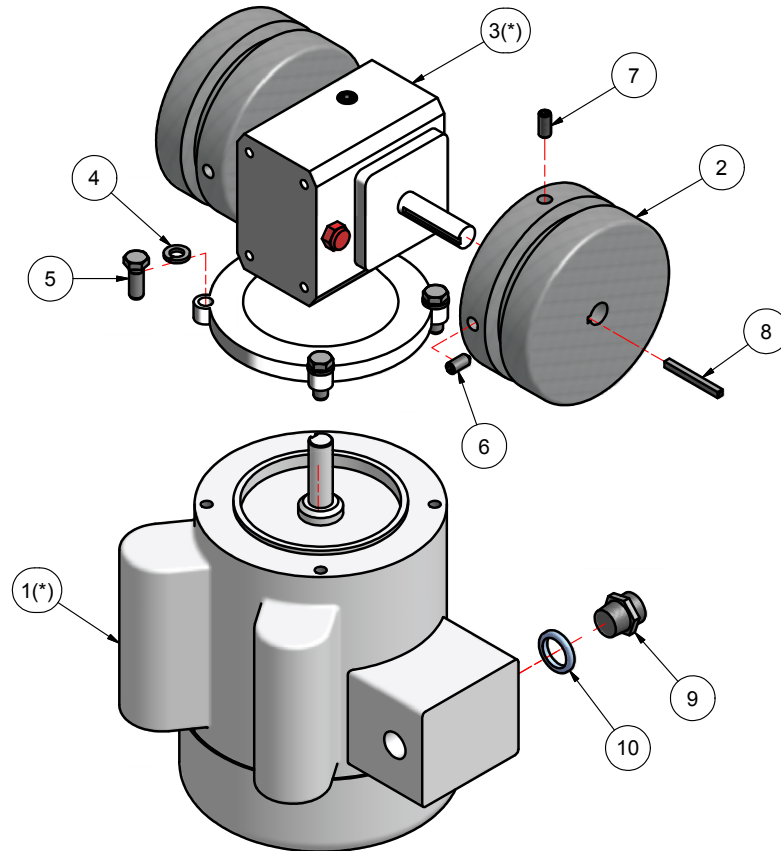


Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PSC636-LOV-2	SURFACE MOUNT ENCLOSURE
2	2	AH199G	FITTING, STRAIN PG16
3	2	AH199GN	NUT, STRAIN RELIEF
4	1	LDW-0110-3	ELECT. BOX STAND OFF
5	1	LDW-0111-4	MOUNT, ELECT. BOX
6	2	FLWMGS	LOCK WASHER M6
7	2	FLWMHS	LOCK WASHER M8
8	2	FHFNHMS	HEX NUT M8 S.S.
9	2	FHFNMGs	HEX NUT M6
10	2	FFHMG025S10	FLAT HEAD SCREW M6 X 25
11	2	LDW-0112-3	ELECT. BOX STUD
12	2	FFWMES	FLAT WASHER M4
13	2	FNLNMS	NLN M4
14	1	LDW-0129-3	BOLT, SIDE RAIL
15	1	FLWMKS	LOCK WASHER SPRING M16
16	1	PSC636-LOV-1	OPERATOR w/ EMERGENCY STOP
17	1	PSC636-LOV-3A	MANUAL MOTOR STARTER

MAT'L	PART #	CAD FILE	EBA WCS 240/150.dwg	150 dlv	OTHER FRANCES UNLESS OTHERWISE NOTED:	LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.		
NOTED	STD	PLOT DATE	10/2/2007			TITLE ELECT. BOX ASSY. 240/150		
ST. ST.	N/A	DRAWN DATE	10/3/2007			DWG NO EBA-WDCS-240V-AMY SCALE N/A		
STAINLESS : NO FINISH		DO NOT SCALE PRINT				MATERIAL NOTED		CHECKED
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEREOF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.						DRAWN TONY'S		APPROVED

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/3/2007	AJS



NOTE:

FOR ASSY. # .LXMAN4-120160 (WHITE EPOXY COATED) USE P/N:

ITEM 1(*) LD16B-2033WD MOTOR
ITEM 3(*) RED-1019 REDUCER

FOR ASSY. # .LXMA100N-115S (STAINLESS STEEL) USE P/N:

ITEM 1(*) LD16B-2033/SS MOTOR
ITEM 3(*) RED-1020N REDUCER

FOR ASSY. # .LXMAN4-120160S (NEMA 4 160 FPM BELT SPEED) USE P/N:

ITEM 1(*) MTR-1019 MOTOR
ITEM 3(*) RED-1021 REDUCER

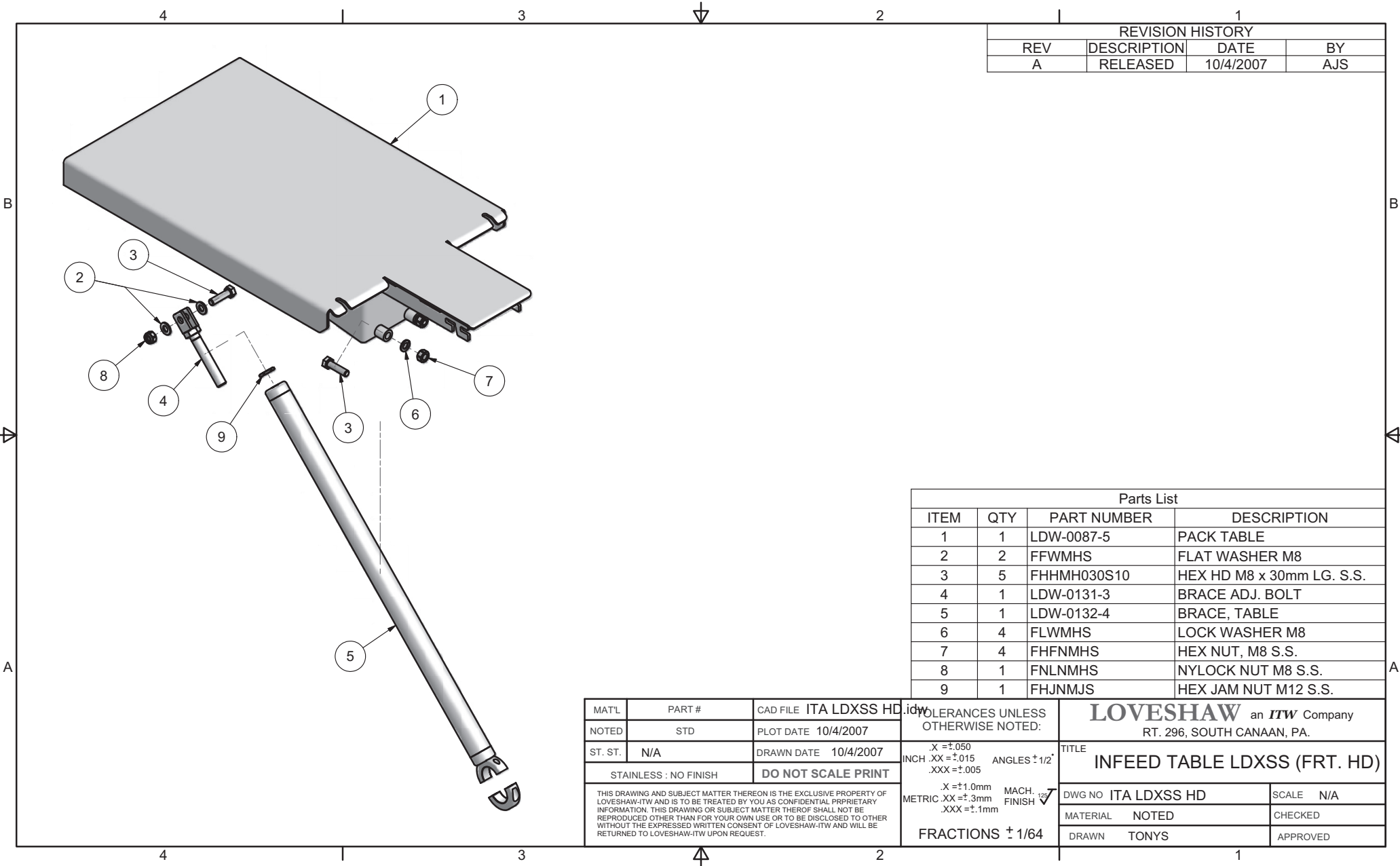
FOR ASSY. # .LXMANSS-480360 (STAINLESS STEEL) USE P/N:

ITEM 1(*) LD16B-2033-3/SS MOTOR
ITEM 3(*) RED-1020N REDUCER

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1(*)	1	SEE NOTE	MOTOR
2	2	LDW-0055-4	DRIVE ROLLER
3(*)	1	SEE NOTE	REDUCER
4	4	FLWSFS	LOCK WASHER 3/8
5	4	FHHSJ100S08	HH 3/8-16 x 1 LG.
6	2	SPH-1315	M8-1.25 x 16mm LG. S.S.
7	2	SPH-1316	M8-1.25 x 16mm LG. S.S.
8	2	LDW-0094-3SS	KEY, DRIVE ROLLER
9	1	AH200-BH-15A	2 3 COND. RECEPTACLE MALE
10	1	AH108	SEAL RING 1/2"

MATL	PART #	CAD FILE LXMAN4 120160.idw	TOLERANCES UNLESS OTHERWISE NOTED:		LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.	
NOTED	STD	PLOT DATE 2/23/2009	OTHERWISE NOTED:		TITLE MOTOR ASSEMBLY LDXSS	
ST. ST.	N/A	DRAWN DATE 10/3/2007	X = ±.050 INCH .XX = ±.015 .XXX = ±.005		DWG NO SEE NOTE	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	X = ±1.0mm METRIC .XX = ±.3mm .XXX = ±.1mm		SCALE N/A	
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEREOF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.			MACH. FINISH 125		MATERIAL NOTED	
			FRACTIONS ± 1/64		CHECKED	
					DRAWN TONY S	
					APPROVED	



REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/4/2007	AJS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LDW-0087-5	PACK TABLE
2	2	FFWMHS	FLAT WASHER M8
3	5	FHHMH030S10	HEX HD M8 x 30mm LG. S.S.
4	1	LDW-0131-3	BRACE ADJ. BOLT
5	1	LDW-0132-4	BRACE, TABLE
6	4	FLWMHS	LOCK WASHER M8
7	4	FHFNMHS	HEX NUT, M8 S.S.
8	1	FNLNMHS	NYLOCK NUT M8 S.S.
9	1	FHJNMJS	HEX JAM NUT M12 S.S.

MATL	PART #	CAD FILE	ITA LDXSS HD.dwg	TOLERANCES UNLESS OTHERWISE NOTED: .X =±.050 INCH .XX =±.015 .XXX =±.005 ANGLES ± 1/2° .X =±1.0mm METRIC .XX =±.3mm .XXX =±.1mm FRACTIONS ± 1/64	LOVESHAW an <i>ITW</i> Company RT. 296, SOUTH CANAAN, PA.		
NOTED	STD	PLOT DATE	10/4/2007		TITLE INFEED TABLE LDXSS (FRT. HD)		
ST. ST.	N/A	DRAWN DATE	10/4/2007	DWG NO	ITA LDXSS HD	SCALE	N/A
STAINLESS : NO FINISH		DO NOT SCALE PRINT			MATERIAL	NOTED	CHECKED
THIS DRAWING AND SUBJECT MATTER THEREON IS THE EXCLUSIVE PROPERTY OF LOVESHAW-ITW AND IS TO BE TREATED BY YOU AS CONFIDENTIAL PROPRIETARY INFORMATION. THIS DRAWING OR SUBJECT MATTER THEROF SHALL NOT BE REPRODUCED OTHER THAN FOR YOUR OWN USE OR TO BE DISCLOSED TO OTHER WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOVESHAW-ITW AND WILL BE RETURNED TO LOVESHAW-ITW UPON REQUEST.				MACH. FINISH	1/2" ✓	DRAWN	TONYS
						APPROVED	

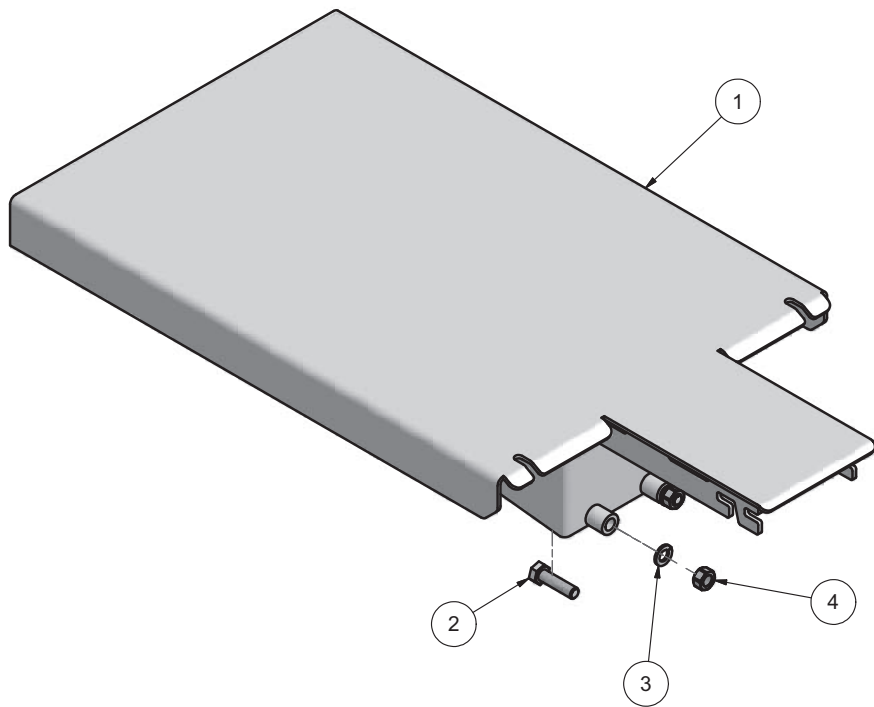
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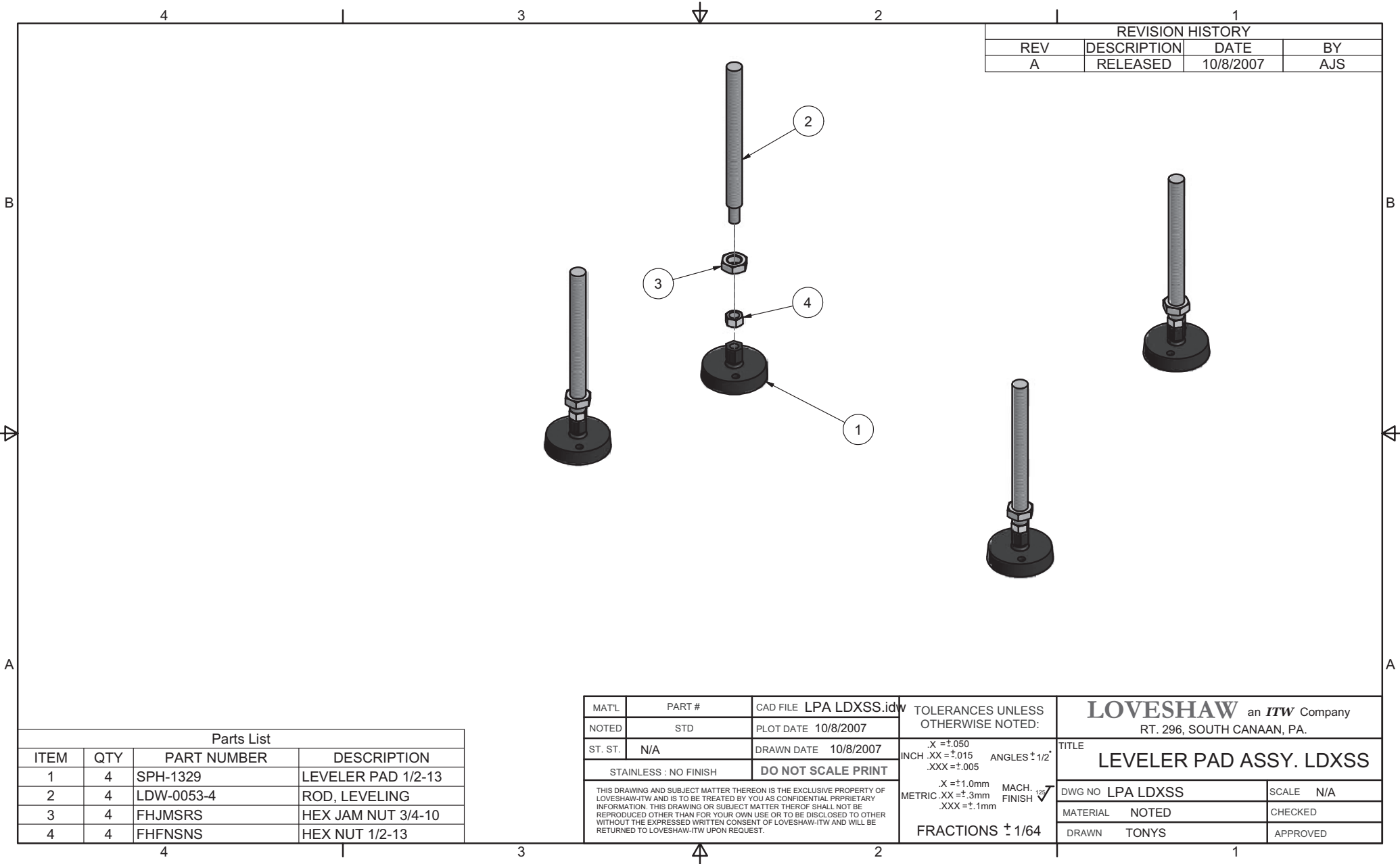
REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/4/2007	AJS



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LDW-0087-5	PACK TABLE
2	4	FHHMH030S10	HEX HD M8 x 30mm LG. S.S.
3	4	FLWMHS	LOCK WASHER M8
4	4	FHFNMHS	HEX NUT, M8 S.S.

MATL	PART #	CAD FILE	ETA LDXSS.idw	TOLERANCES UNLESS OTHERWISE NOTED:		LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.				
NOTED	STD	PLOT DATE	10/4/2007	X =±.050 INCH .XX =±.015 ANGLES ± 1/2° .XXX =±.005		TITLE EXIT TABLE ASSY LDX S.S.				
ST. ST.	N/A	DRAWN DATE	10/4/2007	X =±1.0mm MACH. FINISH ✓ METRIC .XX =±.3mm .XXX =±.1mm		DWG NO		ETA LDXSS	SCALE	N/A
STAINLESS : NO FINISH		DO NOT SCALE PRINT		FRACTIONS ± 1/64		MATERIAL		NOTED	CHECKED	
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REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	RELEASED	10/8/2007	AJS

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	SPH-1329	LEVELER PAD 1/2-13
2	4	LDW-0053-4	ROD, LEVELING
3	4	FHJMSRS	HEX JAM NUT 3/4-10
4	4	FHFNSNS	HEX NUT 1/2-13

MATL	PART #	CAD FILE LPA LDXSS.idw	TOLERANCES UNLESS OTHERWISE NOTED:		LOVESHAW an <i>ITW</i> Company RT. 296, SOUTH CANAAN, PA.	
NOTED	STD	PLOT DATE 10/8/2007				
ST. ST.	N/A	DRAWN DATE 10/8/2007	X =±.050 INCH .XX =±.015 ANGLES ± 1/2° .XXX =±.005		TITLE LEVELER PAD ASSY. LDXSS	
STAINLESS : NO FINISH		DO NOT SCALE PRINT	X =±1.0mm METRIC .XX =±.3mm .XXX =±.1mm		DWG NO LPA LDXSS	SCALE N/A
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					DRAWN TONY S	APPROVED

LDX LEG EXTENSION INFORMATION

Standard machine

22.5" / 571.5mm to 28.5" / 723.9mm (with leveling pads)

27" / 685.8mm to 33" / 838.2mm (with casters)

.LPA/EX/LDXSS (leveler pad extension)

27.5" / 698.5mm to 31.5" / 800.1mm (with leveling pads)

32" / 812.8mm to 36" / 914.4mm (with casters)

.LPA/EXH/LDXSS (leveler pad extension high)

30.5" / 774.7mm to 36.5" / 927.1mm (with leveling pads)

35" / 889mm to 41" / 1041.4mm (with casters)

.LPA/EX33/LDXSS (leveler extension)

32.5" / 825.5mm to 33.5" / 850.9mm (with casters)

.LPA/EX28/LDXSS (leveler extension)

27.5" / 698.5mm to 28.5" / 723.9mm (with casters)

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	SEE CHART	ROD, LEVELING
2	4	FHJMSRP	HEX JAM NUT 3/4-10
3	4	FHFNSNS	HEX NUT 1/2-13
4	4	SEE CHART	LEG EXTENSION ASSY.
5	8	FFHMF010P10	FHCS M5 X 0.8 X 10 LG.
6	4	LDW-0020-3	LEG PLUG WASHER
7	4	LDW-0116-3	SEAL WASHER, LEG

ASSY. NUMBER	ITEM 1	ITEM 4
.LPA/EX/LDXSS	LDW-0053C-4SS	LDW-0145-4SS
.LPA/EXH/LDXSS	LDW-0053A-4SS	LDW-0146-4SS
.LPA/EX33/LDXSS	LDW-0053D-4SS	LDW-0257-4SS
.LPA/EX28/LDXSS	LDW-0053D-4SS	LDW-0256-4SS

MATL	PART #	CAD FILE	LPA EX LDXSS-1.rvt	TOLERANCES UNLESS OTHERWISE NOTED:	LOVESHAW an ITW Company RT. 296, SOUTH CANAAN, PA.					
NOTED	STD	PLOT DATE	11/13/2007		TITLE LEVELER PAD ASSY. LDXSS					
ST. ST.	N/A	DRAWN DATE	11/13/2007	X = ±.050 INCH .XX = ±.015 .XXX = ±.005 ANGLES ± 1/2°						
STAINLESS : NO FINISH		DO NOT SCALE PRINT								
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				FRACTIONS ± 1/64				MATERIAL NOTED		CHECKED
								DRAWN tonys		APPROVED

