LITTLE DAVID

OWNERS MANUAL



LEGEND RANDOM

2" AND 3" CARTRIDGES

THE LOVESHAW CORPORATION 2206 EASTON TURNPIKE, BOX 83 SOUTH CANAAN, PA 18459

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LOVESHAW - EUROPE UNIT 9, BRUNEL GATE W. PORTWAY INDUSTRIAL ESTATE ANDOVER, HAMPSHIRE SP103SL ENGLAND 44-264-3575-11

GENERAL SAFETY PRECAUTIONS

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

- * 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. ALWAYS USE A ROLLER TYPE EXIT CONVEYOR AND <u>ALWAYS</u> REMOVE BOXES AFTER THEY CLEAR THE EXIT END OF THE MACHINE.
- * FINGER GUARDS ARE PROVIDED TO PREVENT A PINCH-POINT. THEY SHOULD ALWAYS BE IN PLACE WHEN RUNNING THE MACHINE.
- * OBSERVE CAUTION WHEN NEAR CARTRIDGE KNIFE OR WHEN THREADING TAPE. 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. SHOCK HAZARD EXISTS IF POWER IS NOT DISCONNECTED.
- * DO NOT BYPASS ANY DESIGNED-IN SAFETY FEATURES SUCH AS INTERLOCKS, GUARDS, OR SHIELDS.
- * DO NOT PLACE HANDS OR BODY INSIDE CONFINES OF RANDOM TYPE MACHINES. THE SIDE RAILS AND HEAD OPERATE AUTOMATICALLY.
- * DO NOT PLACE HANDS OR BODY INSIDE CONFINES OF UNIFORM TYPE MACHINES UNLESS HEAD IS SECURELY LOCKED AND POWER IS DISCONNECTED.
- * ALWAYS DISCONNECT POWER SOURCE BEFORE SERVICING MACHINE.
- * WHEN OPERATING A SEMI-AUTOMATIC MACHINE, HOLD BOX FLAPS DOWN AT THE 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.
- * SAFETY GLASSES SHOULD BE WORN WHEN WORKING ON OR AROUND THE MACHINE.

ARRIVAL INSPECTION
****NOTE***
WHEN UNCRATING MACHINE, CHECK FOR ANY PHYSICAL DAMAGE.
IF ANY DAMAGE HAS OCCURRED, NOTIFY COMPANY <u>IMMEDIATELY</u> .

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MACHINE SPECIFICATIONS

MACHINE DIMENSIONS:

HEIGHT: 60 1/2 inches 1537 mm 35 3/8 inches 899 mm WIDTH: 56 3/4 inches 1441 mm LENGTH:

TABLE HEIGHT (adjustable):

22 1/4 inches 565 mm MINIMUM: MAXIMUM: 32 1/4 inches 819 mm

ELECTRICAL:

STANDARD: 115V/1/60 OPTIONAL: 220V/1/50,60

(upcharge consult 220V/3/50,60 LOVESHAW) 240V/1/50 380V/3/50

440V/3/50 440V/3/60

BOX CAPACITY:

114 mm to LENGTH: 4.5 inches to

unlimited max. unlimited max.

WIDTH: 2" MACH. 4.5 inches to 114 mm to

22 inches 559 mm 5.5 inches to 140 mm to

559 mm 22 inches 4 7/8 inches to HEIGHT: 76 mm to

> 24 inches 609 mm

OPERATING SPEED:

3" MACH.

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

10 S.C.F.M. AT 70 PSI AIR REQUIREMENTS:

CLOSURE MATERIAL - PRESSURE SENSITIVE TAPE

WIDTH: 2" MACH. 3" MACH.

> 1.5 inches 38 mm to 2 inches 51 mm to

2 inches 50 mm 3 inches 76 mm

MAX. ROLL DIAMETER: 380 mm 15 inches

WEIGHT: (uncrated) 203 LBS. 104 KG.

INTRODUCTION

THE LITTLE DAVID LDR UNIFORM PRESSURE SENSITIVE TAPER IS DESIGNED TO TAPE THE 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 2206 EASTON TURNPIKE BOX 83 SOUTH CANAAN, PA 18459 PHONE: 1-800-962-2633 / 570-937-4921 FAX: 570-937-4370

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 AND SUPPLYING IT WITH THE RECOMMENDED AIR SUPPLY. THE CONNECTION CABLE IS LOCATED ON THE MAST SIDE, EXIT END OF THE MACHINE.

THE HEIGHT OF THE MACHINE CAN BE ADJUSTED FROM 22 ½ "TO 33 ½" (565 mm to 844 mm) IN ANY INCREMENT 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 EXTENSIONS FOR LEVELING BOLTS, IF REQUIRED.

THE INFEED TABLE CAN BE USED SO THAT THE PACKER CAN FILL THE BOXES AND CLOSE THE FLAPS PRIOR TO FEEDING THE BOXES INTO THE MACHINE. A CONVEYOR SHOULD BE PROVIDED AT THE OUTFEED 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.

INSTALLATION AND ADJUSTMENT OF DRIVE COMPONENTS

THE MACHINE CONVEYOR SYSTEM CONSISTS OF (5) KEY COMPONENTS.

- 1. MOTOR / GEARBOX SYSTEM
- 2. DRIVE ROLLERS
- BELTS
- 4. FRONT BELT TENSIONER AND GUIDES

MOTOR / GEARBOX SYSTEM:

THE MOTOR AND GEARBOX SYSTEM IS LOCATED IN THE REAR OF THE MACHINE TUCKED UNDER THE FRAME. SEE ASSEMBLY FOR INDIVIDUAL PART NUMBERS. THE SYSTEM CAN BE REMOVED FOR INSPECTION AND REPLACEMENTS BY FOLLOWING THIS PROCEDURE.

- 1. DISCONNECT POWER FROM MACHINE AND LOCK OUT POWER USING LOCKOUT BRACKET ON STARTER SWITCH.
- 2. LOOSEN THE (4) MOUNTING BOLTS AT THE GEARBOX SLIDE BRACKET. THEN SLIDE THE MOTOR AND GEARBOX ASSEMBLY UP TOWARDS THE FRAME. THIS WILL REMOVE THE TENSION FROM THE DRIVE CHAIN AND ALLOW THE DRIVE CHAIN TO BE REMOVED FROM THE ASSEMBLY.
- THE POWER SUPPLY CORD MUST BE REMOVED FROM MOTOR FOR REMOVAL FROM MACHINE.
- 4. THEN REMOVE THE (4) MOUNTING BOLTS WHILE SUPPORTING THE MOTOR AND GEARBOX ASSEMBLY THEM REMOVE FROM THE MACHINE.
- 5. THE MOTOR MAY BE REMOVED FROM GEARBOX ASSEMBLY BY REMOVING THE (4) MOUNTING BOLTS ON THE GEARBOX FLANGE.
- 6. THE PROCESS SHOULD BE REVERSED TO REASSEMBLE THE SYSTEM.

DRIVE ROLLERS AND BELT REPLACEMENT:

THE DRIVE ROLLERS ARE LOCATED ON THE DRIVE SHAFT AT THE REAR OF THE MACHINE. THEY TRANSFER POWER FROM THE GEARBOX ASSEMBLY TO THE 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. TO REPLACE BELTS FOLLOW INSTRUCTIONS #1 AND #2 LISTED BELOW.

- 1. TURN ON MACHINE UNTIL THE LACED PORTION OF THE BELT IS SHOWING THEN STOP THE MACHINE. (USE EXTREME CAUTION WHEN WORKING ON THE MACHINE WHILE POWER IS CONNECTED.) PULL UPWARD ON THE BELT TO COLLAPSE THE SELF-TENSIONING ASSEMBLY AT THE FRONT END OF THE MACHINE. PLACE A WEDGE (EXAMPLE: SCREWDRIVER HANDLE) BETWEEN THE FRAME AND BELT TO KEEP THE SELF-TENSIONING ASSEMBLY COLLAPSED. THIS WILL ALLOW THE REMOVAL OF THE PIN IN THE LACED PORTION OF THE BELT.
- SLIDE THE BELT OUT OF THE MACHINE AND REPEAT FOR THE OTHER BELT.
- 3. THE PROCESS SHOULD BE REVERSED TO REASSEMBLE THE SYSTEM.

FRONT BELT TENSIONER ASSEMBLIES AND GUIDE ADJUSTMENT:

THE FRONT BELT TENSIONER ASSEMBLIES ARE LOCATED AT THE FRONT END OF THE MACHINE TUCKED INSIDE THE FRAME. THIS IS A SELF-TENSIONING SYSTEM THAT CONSTANTLY PLACES FORCE ON THE BELT TO TAKE UP ANY ADJUSTMENT IN LENGTH. THEY CONSIST OF (3) ITEMS - A TENSION ROLLER BRACKET WITH ROLLER, (2) GUIDE ROLLERS, AND (2) COMPRESSION SPRINGS. EACH TENSIONER CAN BE MOVED INDEPENDENTLY IN ORDER TO ACCOMMODATE THE 2" OR 3" TAPE CARTRIDGES. SEE ASSEMBLY FOR INDIVIDUAL PART NUMBERS. THE ADJUSTMENT OF THE FRONT BELT TENSIONER IS AS FOLLOWS.

- DISCONNECT POWER FROM MACHINE AND LOCK OUT POWER USING LOCKOUT BRACKET ON SUPPLIED POWER OR MACHINE POWER CORD.
- REFER TO ASSEMBLY FOR DIMENSIONS TO LOCATE THE POSITION OF THE TENSIONER.
- 3. THERE ARE SPLIT SHAFT COLLARS LOCATED ON EACH SIDE OF THE TENSIONER ASSEMBLY. LOOSEN THE COLLARS AND SLIDE TENSIONER INTO POSITION.
- 4. TIGHTEN COLLARS AFTER IN POSITION AND RESTORE POWER TO MACHINE.

ADJUSTMENT OF LEG EXTENSIONS

LEG EXTENSION ADJUSTMENT

THE LEG EXTENSIONS ARE LOCATED ON THE INSIDE OF THE (4) LEGS OF THE MACHINE. THEY HAVE THE ABILITY TO BE ADJUSTED INFINITELY IN THEIR RANGE. SEE ASSEMBLY FOR INDIVIDUAL PART NUMBERS. THE PROCEDURE FOR ADJUSTING IS AS FOLLOWS.

- 1. DISCONNECT POWER FROM MACHINE AND LOCK OUT POWER USING LOCKOUT BRACKET ON STARTER SWITCH.
- 2. REMOVE WEIGHT OFF MACHINE LEG.
- 3. LOOSEN THE 12 mm LOCKING BOLT LOCATED ON THE INSIDE OF THE MACHINE LEG. THIS WILL ALLOW THE LEG EXTENSION TO SLIDE FREELY TO PROPER HEIGHT.
- 4. TIGHTEN THE LOCKING BOLT TO 50 FT/LBS. OF TORQUE TO INSURE PROPER CLAMPING.
- 5. REPEAT PROCESS ON ALL LEGS UNTIL THE DESIRED MACHINE HEIGHT IS OBTAINED.

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

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

MAIN FRAME

STARTER SWITCH:

THE STARTER SWITCH IS MOUNTED ON THE OPERATOR SIDE OF THE MACHINE. TO REPLACE THIS SWITCH, FIRST DISCONNECT THE MACHINE FOR THE ELECTRICAL SUPPLY. REMOVE THE SWITCH BY LOOSENING THE TWO FASTENING SCREW AND PULL SWITCH FOR THE ELECTRICAL BOX. REMOVE THE SIRES AFTER FIRST NOTING THEIR CONNECTION TO THE SWITCH.

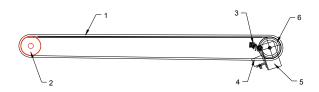
TO REPLACE THE STARTER SWITCH, REVERSE THE ABOVE PROCEDURE.

SIDE RAILS:

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

BELT THREADING DIAGRAM

KEY	PART NUMBER	DESCRIPTION
1	LDU-1128-4	BELT
2	LDU-1064-5	DRIVE ROLLER
3	PSC301232	BELT TENSIONING SPRING
4	K286	GUIDE ROLLER
5	LDU-1092-5	CONV. ROLLER BRACKET
6	PSC196-4	ROLLER



HEAD

THE HEAD TROLLEY ASSEMBLY TRAVELS ALONG THE MAST ON CAM BEARINGS AND UHMW WEAR PADS. THE HEIGHT OF THE HEAD IS ADJUSTED BY TURNING THE LOCK HAND KNOB COUNTERCLOCKWISE TO RELEASE THE HEAD. TURNING THE HAND WHEEL CLOCKWISE WILL LOCK THE HEAD IN THE DESIRED POSITION.

ADJUSTMENT OF HEAD ASSEMBLY

HEAD TROLLEY WEAR PAD ADJUSTMENT

SEE ASSEMBLY FOR INDIVIDUAL PART NUMBERS. THE ADJUSTMENT OF THE TROLLEY ASSEMBLY IS AS FOLLOWS.

- DISCONNECT POWER FROM MACHINE AND LOCK OUT POWER USING LOCKOUT BRACKET ON STARTER SWITCH.
- 2. THERE ARE (4) NYLON PATCHED SET SCREWS LOCATED ON THE LOCK SIDE OF THE TROLLEY BLOCK. BY ADJUSTING THESE SET SCREWS INWARD THEY WILL REDUCE THE CLEARANCE BETWEEN THE WEAR PAD AND THE MAST. ADJUSTMENT OF THE PAD MUST BE UNIFORM ON ALL (4) SCREWS TO INSURE THAT PAD IS PARALLEL TO THE MAST. THE RECOMMENDED CLEARANCE IS APPROXIMATELY .020" OR .5 mm.
- 3. DURING THE ADJUSTMENT PROCESS SLIDE THE HEAD UP AND DOWN TO INSURE A SMOOTH MOVEMENT.

HEAD TROLLEY CAM BEARING ADJUSTMENT

THERE ARE (2) SETS OF CAM BEARINGS LOCATED IN THE TROLLEY ASSEMBLY. THE FIRST SET IS LOCATED IN THE FRONT OF THE HEAD LIFTING TROLLEY ASSEMBLY AND IS FIXED. THE SECOND SET IS LOCATED AT THE REAR OF THE ASSEMBLY AND IS MOVABLE. THE ADJUSTMENT OF THE REAR CAM BEARING ASSEMBLY IS AS FOLLOWS.

- 1. DISCONNECT POWER FROM MACHINE AND LOCK OUT POWER USING LOCKOUT BRACKET ON STARTER SWITCH.
- 2. REMOVE FRONT SPRING GUARD BY REMOVING THE (2) MOUNTING SCREWS LOCATED AT THE TOP OF THE GUARD.
- 3. THEN REMOVE THE MAST GUARD BY REMOVING ITS (8) MOUNTING SCREWS. THERE ARE (4) SCREWS LOCATED ON EACH SIDE OF THE GUARD JUST ABOVE AND BELOW THE SIDE CUT OUT. WITH THESE REMOVED THE GUARD WILL LIFT OFF.
- 4. ON THE TROLLEY ASSEMBLY THERE ARE (4) SET SCREWS. EACH SET SCREW PUSHES ON A TEE NUT THAT HOUSES THE CAM BAR SUPPORT. BY TURNING THE SET SCREW IN, THIS WILL DECREASE THE DISTANCE BETWEEN THE CAM BEARING AND THE MAST.
- 5. DURING THE ADJUSTMENT PROCESS SLIDE THE HEAD UP AND DOWN TO INSURE A SMOOTH MOVEMENT.

ELECTRICAL SYSTEM

THE ELECTRICAL SYSTEM CONSISTS OF THE DRIVE MOTOR WHICH INCORPORATES A FRACTIONAL HP A.C. MOTOR AND THE STARTER SWITCH. THE MOTOR AND FRAME ARE GROUNDED THROUGH THE STARTER SWITCH. THE STARTER SWITCH IS FASTENED TO THE MACHINE'S FRAME.

THE MOTOR STARTERS OVERLOAD RELAY IS FACTORY SET. IF IT TRIPS, A QUALIFIED ELECTRICIAN SHOULD CHECK THE ELECTRICAL SYSTEM, THEN RESET THE OVERLOAD RELAY.

THE BELTS ARE DRIVEN BY THE DRIVE MOTOR ON THE DISCHARGE END OF THE MACHINE. THE MOTOR IS CONTROLLED BY THE STARTER SWITCH IN WHICH THE HEATER IS FACTORY SET TO THE PROPER TRIP SETTING TO PROTECT THE MOTOR.

IF TROUBLE IS BEING EXPERIENCED WITH THE DRIVE MOTOR, A QUALIFIED ELECTRICIAN SHOULD FIRST CHECK THE STARTER SWITCH, THEN THE ELECTRICAL SYSTEM.

TO REPLACE THE DRIVE MOTOR, PROCEED AS FOLLOWS:

- DISCONNECT THE ELECTRICAL CONNECTIONS.
- REMOVE MOTOR FROM GEAR REDUCER, REPLACE MOTOR.
- TO CONNECT MOTOR, REFER TO WIRING DIAGRAM IN MOTOR JUNCTION BOX.
- CHECK MOTOR FOR PROPER ROTATION.

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LUBRICATION	
ALL MECHANICAL PARTS ON THE LITTLE DAVID ARE PERMANENTLY LUBRICATED AND SEALED BEARINGS ARE USED THROUGHOUT.	
THE REDUCER HAS BEEN PRE-CHARGED AT THE FACTORY WITH SYNTHETIC LUBRICANT.	
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.	

SEQUENCE OF OPERATIONS - LEGEND RANDOM

LISTED BELOW IS THE SEQUENCE OF OPERATIONS FOR A LEGEND RANDOM WITH ROLLER INFEED PACK TABLE. OPERATOR IS TO ASSURE THAT THE APPROPRIATE ELECTRICAL AND PNEUMATIC REQUIREMENTS ARE SUPPLIED.

- PLACE BOX ON ROLLER INFEED TABLE AND CLOSE ALL FLAPS.
- WHILE HOLDING FLAPS CLOSED AT REAR TOP OF BOX, ROLL IT FORWARD TOWARDS THE CASE SEALER. THE BOX WILL DEPRESS THE ROLLER SWITCH (LS2) ACTIVATING THE SIDE RAIL VALVE (SV2) CLOSING AND CENTERING THE BOX.
- IN ONE SMOOTH LINEAR MOTION STILL HOLDING FLAPS CLOSED, ROLL BOX FORWARD TOWARDS THE CASE SEALER. THE BOX WILL CONTACT THE HEAD PADDLE (LDU-1174-4) THIS ACTIVATES THE PADDLE ROLLER SWITCH (LS1). THIS WILL THEN ACTIVATE THE HEAD LIFTING VALVE (SV1) RAISING HEAD TO THE BOX HEIGHT ALLOWING YOU TO FEED THE BOX UNTIL IT IS ABLE TO DRIVE IT THOUGH THE CASE SEALER.
- AS BOX EXITS THE ROLLER PACK TABLE THE SIDE RAIL WILL RELEASE AND RETURN TO THE OPEN POSITION.
- WHEN THE BOX PASSES THE EXIT PHOTO EYE (PE2) THE HEAD WILL RAISE (BURP) TO RELEASE THE BOX.
- THE HEAD WILL LOWER TO ORIGINAL DOWN POSITION AND MACHINE IS NOW READY FOR A NEW BOX TO BE PROCESSED.

SEQUENCE OF OPERATIONS - LEGEND RANDOM CONSECUTIVE FEED (BACK TO BACK)

THE LEGEND RANDOM IS EQUIPPED WITH TECHNOLOGY THAT WILL ALLOW BOXES OF THE SAME SIZE TO BE FED CONSECUTIVELY WITH APPROPRIATE SPACING WITHOUT THE HEAD RELEASING (BURP).

- FOLLOW STANDARD BOX PROCESSING FOR THE FIRST BOX.
- INTRODUCE THE SECOND BOX AS THE FIRST BOX IS TRAVELING THROUGH THE CASE SEALER ENSURING THAT THERE IS A MINIMUM OF 12 INCHES OF SPACE FROM THE BACK OF THE FIRST BOX TO THE FRONT OF THE SECOND BOX. (THIS PROCESS CAN BE REPEATED IF YOU MAINTAIN THE 12 INCH MINIMUM SPACING).
- WHEN THE SECOND BOX BLOCKS PHOTO EYE (PE1) LOCATED TOWARDS THE FRONT OF THE HEAD, THIS WILL INHIBIT THE HEAD RAISE (BURP) FUNCTION.
- WHEN THE SECOND BOX PASSES THE EXIT PHOTO EYE (PE2) THE HEAD WILL RAISE (BURP) TO RELEASE THE BOX.
- THE HEAD WILL LOWER TO ORIGINAL DOWN POSITION AND MACHINE IS NOW READY FOR A NEW BOX TO BE PROCESSED.

BASE LINE SETUP & ADJUSTMENT PROCEDURES FOR LEGEND RANDOM HEAD "BURP"

THE CONTROL MODULE IS POSITIONED INSIDE THE ELECTRICAL ENCLOSURE, LOCATED UNDER THE MACHINE FRAME ON THE MAST SIDE AT THE EXIT END OF THE MACHINE. THE CONTROL MODULE HAS (2) ADJUSTABLE CONTROL SCREWS. THE ADJUSTMENT SCREW LABELED (DELAY) CONTROLS THE DELAY TIMER THAT IS ACTIVATED WHEN THE TRAILING EDGE OF THE BOX CLEARS THE EXIT PHOTO EYE (PE2) AND THE HEAD RAISING VALVE (SV1) ACTIVATES. THIS WILL DETERMINE THE TIME THE HEAD STARTS TO RAISE UP (BURP). THE ADJUSTMENT SCREW LABELED (HOLD) CONTROLS THE AMOUNT OF TIME THE HEAD RAISING VALVE (SV1) IS HELD ON. THIS WILL DETERMINE THE DURATION AND HEIGHT OF THE HEAD RELEASE (BURP).

CAUTION:

AS WITH ANY ELECTRICAL DEVICE, SPECIAL CARE SHOULD BE TAKEN. ONLY QUALIFIED PERSONNEL SHOULD MAKE ADJUSTMENTS.

SPECIAL NOTE:

IF INSTALLING A NEW CONTROL MODULE FOLLOW STEPS 1 THROUGH 7. IF ADJUSTING AN EXISTING MODULE <u>DO NOT</u> FOLLOW STEPS 4 & 5, BUT FOLLOW STEPS 4A & 5A TO TUNE CONTROL MODULE.

- 1. SHUT OFF ELECTRICITY AND LOCK OUT / TAG OUT MACHINE.
- 2. REMOVE THE ENCLOSURE COVER EXPOSING THE CONTROL DEVICE. IT IS A YELLOW RECTANGLE SHAPED BLOCK WITH (2) CONTROL SCREWS.
- 3. TO ZERO OUT OR SET MODULE TO BASE LINE ADJUSTMENT, YOU WILL NEED TO TURN THE ADJUSTMENT SCREWS COUNTERCLOCKWISE (30) FULL ROTATIONS.
- 4. SET THE (DELAY) CONTROL SCREW BY TURNING IT CLOCKWISE (3) FULL TURNS. THIS WILL SET IT TO THE FACTORY INITIAL SETTING.
 - 4A. TURNING THE (DELAY) SCREW CLOCKWISE WILL INCREASE THE DELAY AND COUNTERCLOCKWISE WILL DECREASE THE DELAY. SMALL ADJUSTS OF THE CONTROL SCREW WILL MAKE CHANGES SO CHECK AFTER EACH ADJUSTMENT.
- 5. SET THE (HOLD) CONTROL SCREW BY TURNING IT CLOCKWISE (2 1/2) FULL TURNS. THIS WILL SET IT TO THE FACTORY INITIAL SETTING.
 - 5A. TURNING THE (HOLD) SCREW CLOCKWISE WILL INCREASE THE HOLD AND COUNTERCLOCKWISE WILL DECREASE THE HOLD. SMALL ADJUSTS OF THE CONTROL SCREW WILL MAKE CHANGES SO CHECK AFTER EACH ADJUSTMENT.
- REPLACE ENCLOSURE COVER.
- 7. REMOVE LOCK OUT / TAG OUT DEVICE AND RUN BOXES AS NORMAL.

BASE LINE SETUP & ADJUSTMENT PROCEDURES FOR LEGEND RANDOM PNEUMATIC ASSEMBLY

THE LEGEND RANDOM IS EQUIPPED WITH A PNEUMATIC ASSEMBLY THE CONTROLS PRESSURE SENT TO THE ACTIVATING HEAD LIFTING AND SIDE RAIL CYLINDERS. THIS ASSEMBLY ID LOCATED ON THE MAST SIDE NEXT TO THE ELECTRICAL ENCLOSURE TOWARDS THE EXIT END OF THE MACHINE.

HEAD LIFTING CYLINDER

- TURN ON MAIN AIR VALVE (PSR706A) LOCATED ON OPERATOR SIDE OF MACHINE.
- 2. TURN CLOCKWISE TO INCREASE AND COUNTERCLOCKWISE TO DECREASE UNTIL THE HEAD LIFTING CYLINDER REGULATOR (R1) READS 55 TO 60 PSI FOR 2 INCH TAPE HEAD AND 60 TO 65 PSI FOR 3 INCH TAPE HEAD. RUN BOX TO CHECK ADJUSTMENT.

SPECIAL NOTE:

INCREASING HEAD LIFTING PRESSURE WILL RESULT IN OVER TRAVEL AND CAUSE POOR BOX SEALING.

3. ADJUSTING THE HEAD RETURN SPEED BY LOOSENING THE JAM NUT THEN ROTATING THE SPEED CONTROL LOCATED ON THE HEAD LIFTING VALVE (SV1). RUN BOX TO CHECK ADJUSTMENT.

SPECIAL NOTE:

INCREASING HEAD RETURN SPEED WILL RESULT IN AN ACCELERATED RETURN SPEED RESULTING IN EXCESSIVE WEAR. SLOW RETURN SPEED WILL CAUSE POOR BOX SEALING.

SIDE RAIL CYLINDER

1. TURN CLOCKWISE TO INCREASE AND COUNTERCLOCKWISE TO DECREASE UNTIL SIDE RAIL CYLINDER REGULATOR (R2) READS 30 TO 35 PSI. RUN BOX TO CHECK ADJUSTMENT.

SPECIAL NOTE:

INCREASING SIDE RAIL PRESSURE WILL ACCELERATE CLOSING SPEED RESULTING IN EXCESSIVE WEAR AND BOX STALLING. LOW PRESSURE RESULTS IN SLOW CLOSING SPEED CAUSING POOR BOX CENTERING.

2. ADJUSTING CENTERING AND RETURN SPEED IS ACCOMPLISHED BY TUNING THE SPEED CONTROLS (LD12B-2098) LOCATED NEAR THE SIDE RAIL CYLINDER (N401-70) UNDER THE FRAME ASSEMBLY. RUN BOX TO CHECK ADJUSTMENT.

SPECIAL NOTE:

INCREASING SIDE RAIL CLOSING AND RETURN SPEED WILL RESULT IN AN ACCELERATED CLOSING SPEED RESULTING IN EXCESSIVE WEAR AND BOX STALLING. SLOW CLOSING AND RETURN SPEED CAUSES POOR BOX CENTERING.

3. THE SIDE RAIL CYLINDER IS EQUIPPED WITH AN INTERNAL AIR CUSHION FOR THE OPEN POSITION. THE CUSHION IS LOCATED AT THE PIVOT END OF THE CYLINDER OPPOSITE THE ROD. TURN CUSHION SCREW CLOCKWISE TO INCREASE AND COUNTERCLOCKWISE TO DECREASE UNTIL SIDE RAIL CYLINDER CUSHION IS SET PROPERLY.

SPECIAL NOTE:

REDUCING SIDE RAIL CYLINDER AIR CUSHION WILL RESULT IN EXCESSIVE WEAR AND ABRUPT STOP.

SETUP PROCEDURE FOR LEGEND RANDOM UNIFORM BOX RUNS

THE LEGEND RANDOM IS EQUIPPED WITH SIDE RAIL AND HEAD LOCKING KNOBS SO YOU WILL BE ABLE TO RUN THE MACHINE IN A UNIFORM MODE:

- PLACE BOX ON ROLLER INFEED TABLE AND CLOSE ALL FLAPS.
- 2. WHILE HOLDING FLAPS CLOSED AT THE REAR TOP OF BOX ROLL IT FORWARD TOWARDS THE CASE SEALER. THE BOX WILL DEPRESS THE ROLLER SWITCH (LS2) ACTIVATING THE SIDE RAIL VALVE (SV2) CLOSING AND CENTERING THE BOX. TIGHTEN SIDE RAIL LOCKING KNOB LOCATED ON THE OPERATOR SIDE TOWARDS THE ENTRANCE END OF THE MACHINE.
- 3. IN ONE SMOOTH LINEAR MOTION STILL HOLDING FLAPS CLOSED AT THE REAR TOP OF BOX ROLL IT FORWARD TOWARDS THE CASE SEALER. THE BOX WILL THEN ACTIVATE THE HEAD LIFTING VALVE (SV1) RAISING THE HEAD TO BOX HEIGHT ALLOWING YOU TO FEED THE BOX UNTIL IT IS ABLE TO DRIVE IT IN THE CASE SEALER. WHEN THE BOX IS UNDER THE HEAD PRESS THE E-STOP LOCATED ON THE OPERATOR SIDE OF THE MACHINE. TIGHTEN THE HEAD LOCK KNOB LOCATED ON THE MAST ASSEMBLY.
- 4. RESTART MACHINE AND ALLOW THE BOX TO EXIT AS NORMAL. THE MACHINE IS NOW LOCKED TO THE ORIGINAL BOX SIZE.

PROCEDURES FOR RETURNING LEGEND RANDOM FROM UNIFORM TO RANDOM

- 1. MAKE SURE THAT THE PROPER AMOUNT OF AIR IS BEING SUPPLIED TO THE PNEUMATIC ASSEMBLY. THE MAIN AIR VALVE (PSR706A) SHOULD BE IN THE ON POSITION. THE HEAD LIFTING REGULATOR (R1) SHOULD READ 55 TO 60 PSI FOR 2 INCH TAPE AND 60 TO 65 FOR 3 INCH TAPE. SIDE RAIL CYLINDER REGULATOR (R2) SHOULD READ 30 TO 35 PSI.
- 2. SLOWLY LOOSEN THE SIDE RAIL LOCKING KNOB LOCATED ON THE OPERATOR SIDE TOWARDS THE ENTRANCE END OF THE MACHINE. THIS WILL RELEASE THE SIDE RAILS TO RANDOM MODE.

CAUTION:

FAILURE TO FOLLOW STEP (3) MAY RESULT IN A HAZARDOUS CONDITION.

- 3. LOCATE THE HEAD RAISING SWITCH LOCATED ON THE OPERATOR SIDE OF THE ROLLER PACK TABLE. TURN SWITCH ON TO APPLY PRESSURE TO THE HEAD LIFTING CYLINDER.
- 4. SLOWLY LOOSEN THE HEAD LOCKING KNOB LOCATED ON THE MAST ASSEMBLY. THE HEAD WILL RAISE TO THE HIGHEST POSITION.
- 5. TURN OFF THE HEAD RAISING SWITCH AND THE HEAD WILL LOWER TO RESET THE RANDOM MODE.

TROUBLE SHOOTING

TAPING DIFFICULTIES:

	PROBLEM:		SOLUTION:
1.	TAPE DOES NOT ADHERE WELL TO BOX:	A.	CHECK THAT BOX IS NOT WAXY OR OILY.
	TO BOX.	В.	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.
		C.	CHECK THE PRESSURE ON THE WIPE DOWN ROLLERS. IF NECESSARY, INCREASE MAIN SPRING PRESSURE.
		D.	CHECK THAT THE SPRING IS NOT BROKEN.
2.	TAPE END STICKS TO ITSELF OR MECHANISM:	A.	CHECK THAT THERE IS NO TOO MUCH DRAG ON THE TAPE CAUSING STRETCHING AND SNAP BACK AT CUT OFF. REDUCE THE TAPE CORE DRAG SETTING.
		B.	CHECK THE TAPE THREADING PATH.
		C.	CHECK FOR DEFECTIVE TAPE ROLL BY PULLING TAPE OFF MANUALLY. THE PULL SHOULD BE EVEN AND NOT VARY SUDDENLY.
		D.	CHECK TAPE GUIDE PLATE SETTING AND FREEDOM OF MOVEMENT.
		E.	CHECK FOR BINDING.
3.	TAPE BREAKS OR JAMS:	A.	CHECK THE TAPE ROLL BY PULLING TAPE OFF MANUALLY. THE PULL SHOULD BE EVEN AND SHOULD NOT VARY SUDDENLY.
		B.	CHECK THE TAPE CORE DRAG SETTING.
		C.	CHECK THE TAPE THREADING PATH.
		D.	CHECK FOR NICKS IN EDGE OF TAPE ROLL. PULL OFF DAMAGED TAPE.
		E.	TAPE TENSION SET TOO HIGH.

TAPE WRINKLES:

- A. CHECK THE TAPE ROLL BY PULLING TAPE OFF MANUALLY. THE PULL SHOULD BE EVEN AND SHOULD NOT VARY SUDDENLY.
- B. 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.
- C. CHECK THAT ALL THE ROLLERS TURN FREELY ON THEIR SHAFTS.
- D. CHECK THE BOX CONTENTS. PARTIALLY FULL BOXES OR VERY COMPRESSIBLE CONTENTS MAY ALLOW THE FLAPS TO EXCESSIVELY DEPRESS CAUSING WRINKLES.
- E. CHECK THE DRAG OF THE TAPE. TOO MUCH DRAG MAY CAUSE OVERRUNNING OF THE TAPE ROLL. ADJUST THE TAPE CORE DRAG SETTING.
- F. TAPE TENSION SET TOO HIGH.
- G. CHECK ROLLER STOP INSIDE CARTRIDGE.
- H. CHECK THAT TAPE IS PROPERLY THREADED AND THAT TAPE CORE IS PROPERLY CENTERED.
- CHECK THE PRESSURE OF THE HEAD AGAINST THE BELTS AND HESITATE AS IT IS BEING FED THROUGH THE MACHINE. ADJUST THE HEIGHT.
- J. CHECK THAT THE BELTS ARE NOT SLIPPING.
- K. CHECK ADJUSTMENT OF THE GUIDE PLATE AND FINGER PLATE.
- SHORT TAPE TAB ON BOX:
- CHECK TAPE TENSION.
- B. 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 THE FRONT ROLLER ARM CANNOT BE DEPRESSED BELOW BOX HEIGHT. THEY ARE LOCATED INSIDE CARTRIDGE ON BOTH SIDES. WHEN FULLY DEPRESSED, THE FRONT WIPE ROLLER SHOULD PROTRUDE 3/32" ABOVE CARTRIDGE FRAME. IF THIS NEEDS ADJUSTING, ROTATE 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 HOLE IN THE CARTRIDGE FRAME. THE FRONT ROLLER SHOULD THEN PROTRUDE TO BELT LEVEL.

7.	TAPE NOT CUTTING:	A.	CHECK KNIFE ARM FOR MECHANICAL BINDING.
		B.	CHECK THAT KNIFE IS NOT DULL.
		C.	CHECK SPRINGS ON KNIFE STUDS.
		D.	CHECK BUSHINGS IN KNIFE STUDS.
		E.	IF KNIFE STOP BLOCK IS CAUSING FRICTION ON KNIFE ARM STUDS, ROTATE UNTIL FREE.
		F.	TAPE TENSION IS SET TOO LOW.
8.	TAPE NOT CENTERED ON BOX:	A.	USE SCREW IN CENTER OF TAPE CORE TO RE-ALIGN.
9.	TAPE NOT BEING WIPED:	A.	CHECK MAIN SPRING.
		B.	TAPE TENSION IS SET TOO HIGH.
BOX F	PROBLEMS:		
1.	JAM CLEARING PROCEDURE:	A.	STOP MACHINE.
		B.	OPEN SIDE RAILS AND RAISE HEAD.
		C.	REMOVE JAMMED BOX. CUT TAPE FLUSH WITH END OF WIPE ROLLER.
		D.	RESET HEAD/SIDE RAILS TO A SAMPLE SIZE BOX.
		E.	START MACHINE. MACHINE IS NOW READY TO PROCESS THE NEXT BOX.
2.	INCORRECT BOX SIZE OR SHAPE:	A.	CHECK BOXES TO MAKE SURE THE SIZE FALLS WITHIN THE LIMITS OF THE MACHINE.
		B.	MACHINE WILL NOT PROCESS UNSTABLE BOXES.
3.	CONTENTS BULGING THROUGH TOP OF BOX:	A.	CHECK TO BE SURE BOX IS NOT OVERFILLED WITH CONTENTS.
4.	BOX SLIPPING AGAINST BELTS:	A.	INCREASE HEAD PRESSURE.

6.	HEAD PRESSURE TOO HIGH:	A.	RAISE HEAD SLIGHTLY.
BELT	DRIVE PROBLEMS:		
CHEC	K THAT MACHINE IN CONNECTED TO A	LIVE ELECTRIC	CAL SOURCE.
1.	BELTS SLIP.	A.	RAISE HEAD SLIGHTLY.
		В.	REPLACE IS MISSING OR BROKEN.
2.	BOX SLIPS AGAINST BELTS:	A.	LOWER HEAD SLIGHTLY TO INCREASE PRESSURE ON BOX.
3.	BELTS RUB AGAINST FRAME:	A.	CHECK THAT BELTS ARE POSITIONED CORRECTLY IN BETWEEN THE BELT GUIDE ROLLERS.
		В.	CHECK FOR MISSING OR BROKEN BELT TENSIONING SPRINGS.

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 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 FOR BOXES WITH UNDERFILL OR COMPRESSIBLE CONTENTS.

TAPE GUIDE PLATE:

THE TAPE IS GUIDED TO THE FRONT ROLLER BY THE TAPE 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 FORM 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 ADJUSTMENTS ARE NECESSARY,, GENTLY BEND THE FINGERS NEAR THE TIPS. ONLY BEND A SMALL AMOUNT, THEN CHECK. FINGERS MUST CONTACT PLATE. WHEN THE TAPE 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 IS 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 DEVICES. THE KNIFE ARM SHOULD BE ADJUSTED SO THAT THE TIPS OF THE KNIFE ARE 2 ½" FROM THE CARTRIDGE FRAME. (SEE ASSEMBLY DRAWING). 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: PROCEDURE (TOP AND BOTTOM)

TOP TAPE:

- 1. REMOVE EXPIRED TAPE ROLL BY SLIDING IT OFF TAPE CORE ON MILL STAND, PULLING IT TOWARD THE REAR OF THE CARTRIDGE.
- LOAD NEW ROLL OF TAPE ON TAPE CORE.
- 3. WITH LEFT HAND, GRAB CARTRIDGE NEAR TAPE CORE AND ROTATE UP/BACK UNTIL CARTRIDGE RESTS AGAINST STOP.
- 4. FOLD TAPE ON ITSELF TO PREVENT ADHESIVE FROM GRABBING CARTRIDGE (ABOUT 1 FT. IN LENGTH).
- THREAD AS PER DIAGRAM.
- 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 SETS ON TOP LOAD BRACKET IN HEAD FRAME.

BOTTOM TAPE:

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

LITTLE DAVID

TAPE CARTRIDGE MANUAL

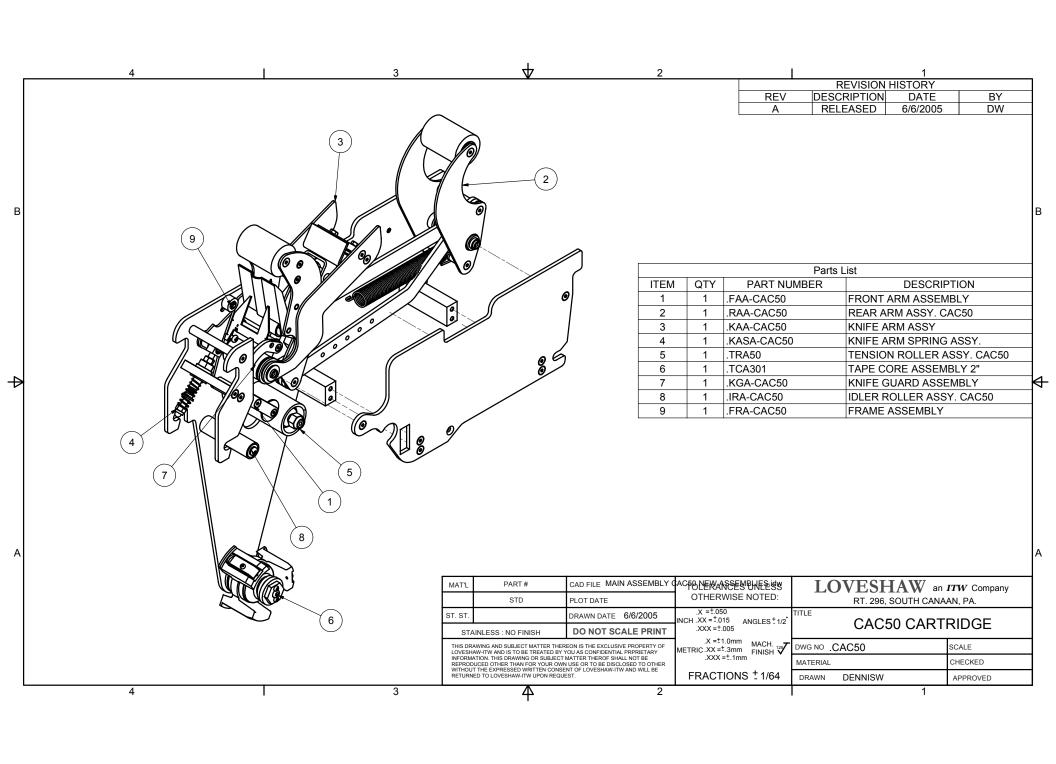


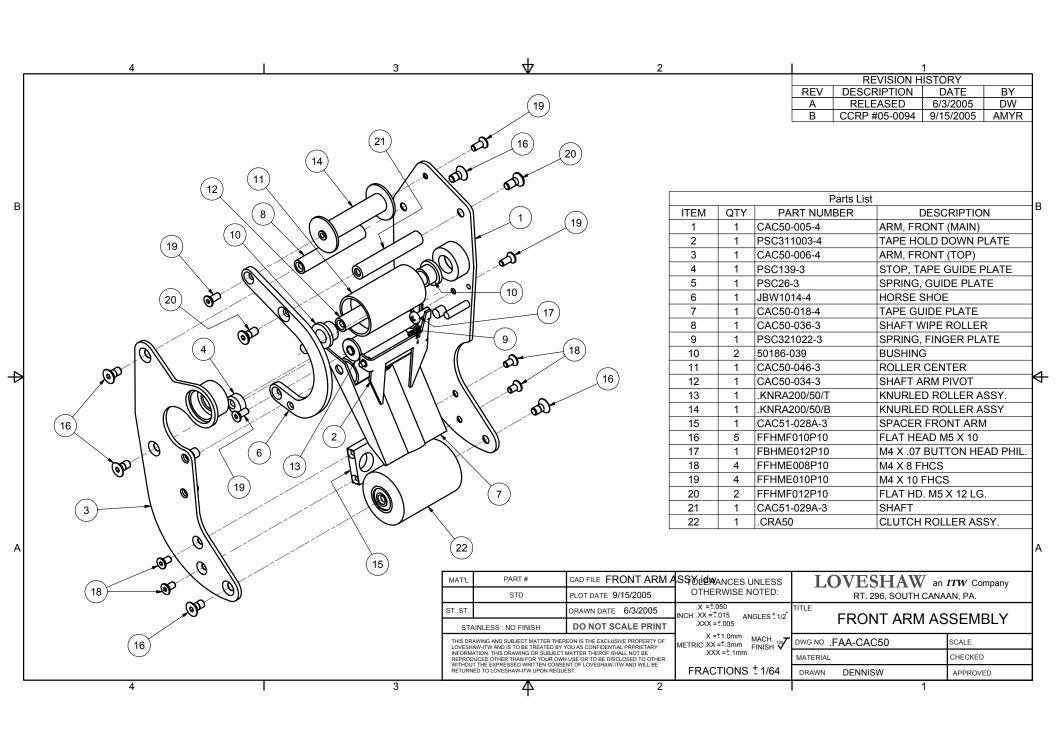
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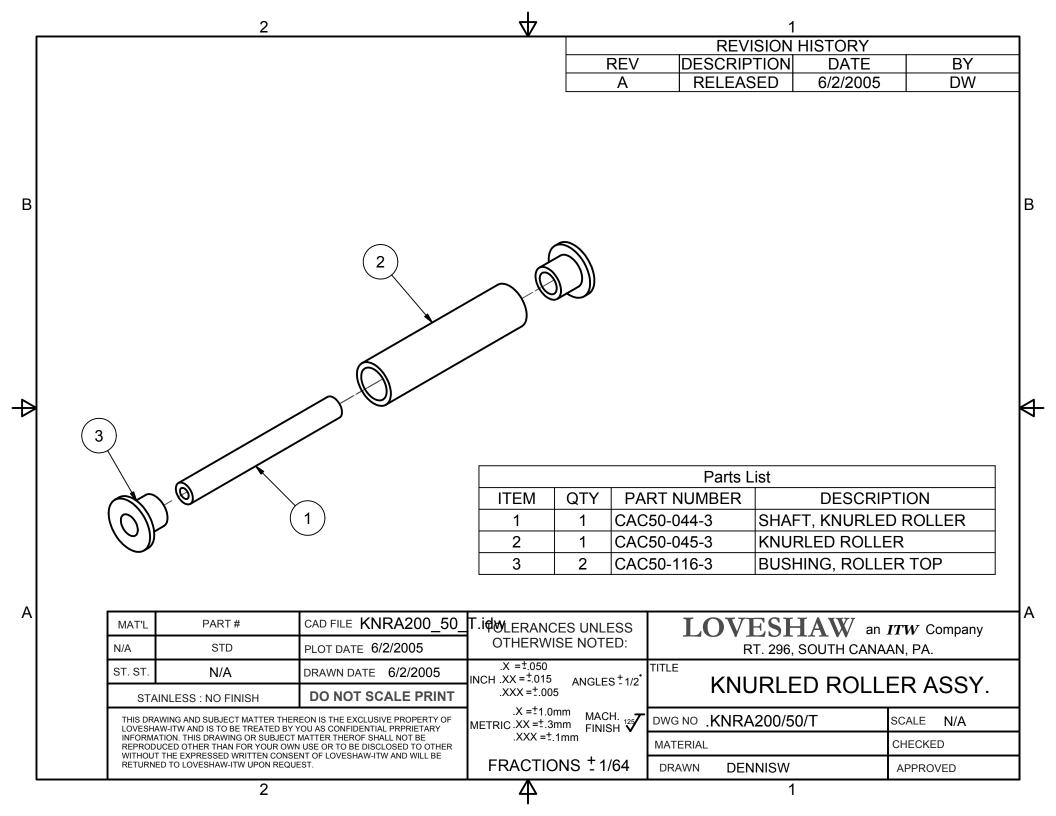
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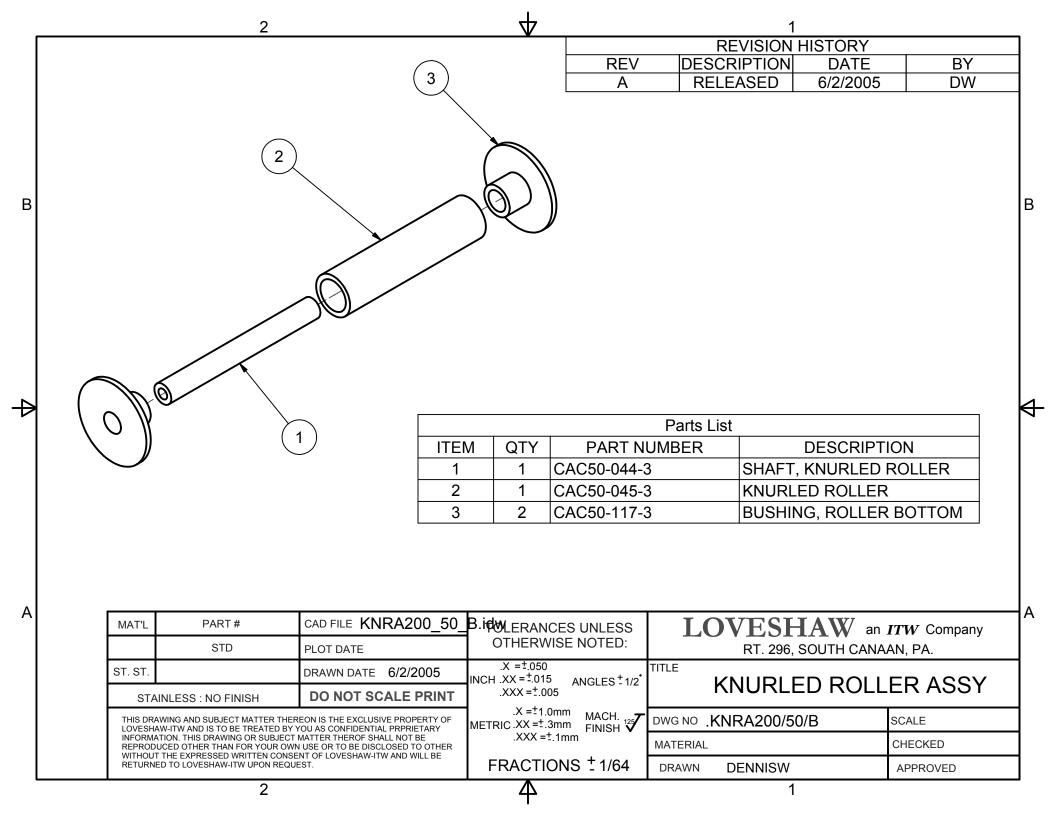
TEL: (570) 937-4921 FAX: (570) 937-4370

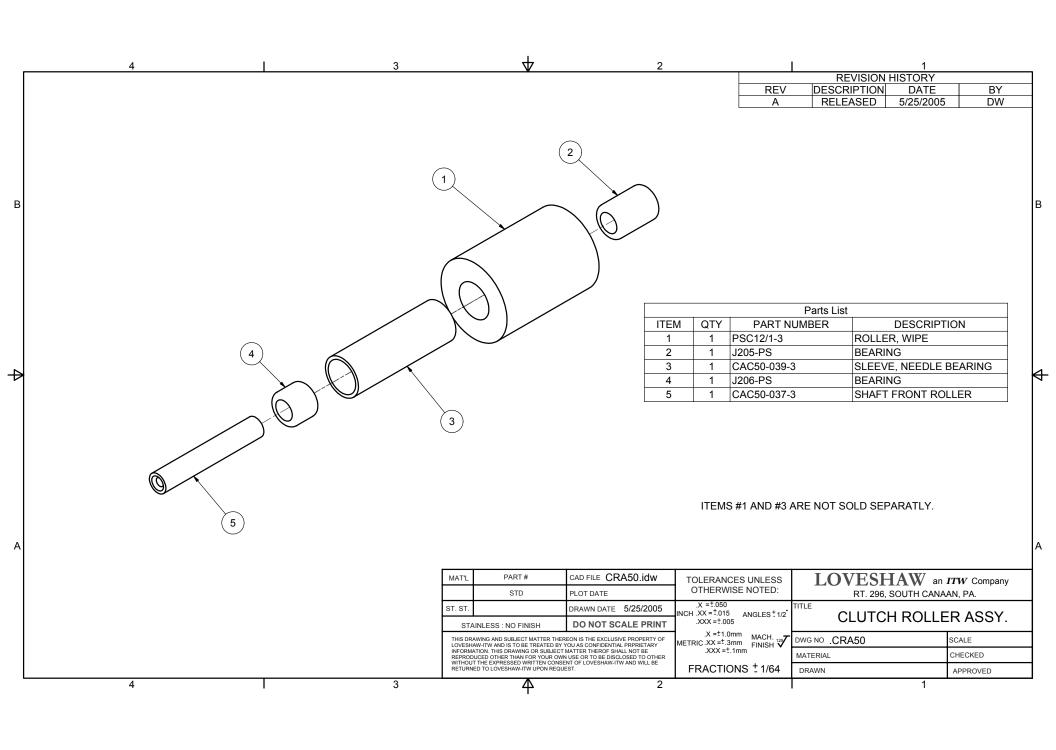
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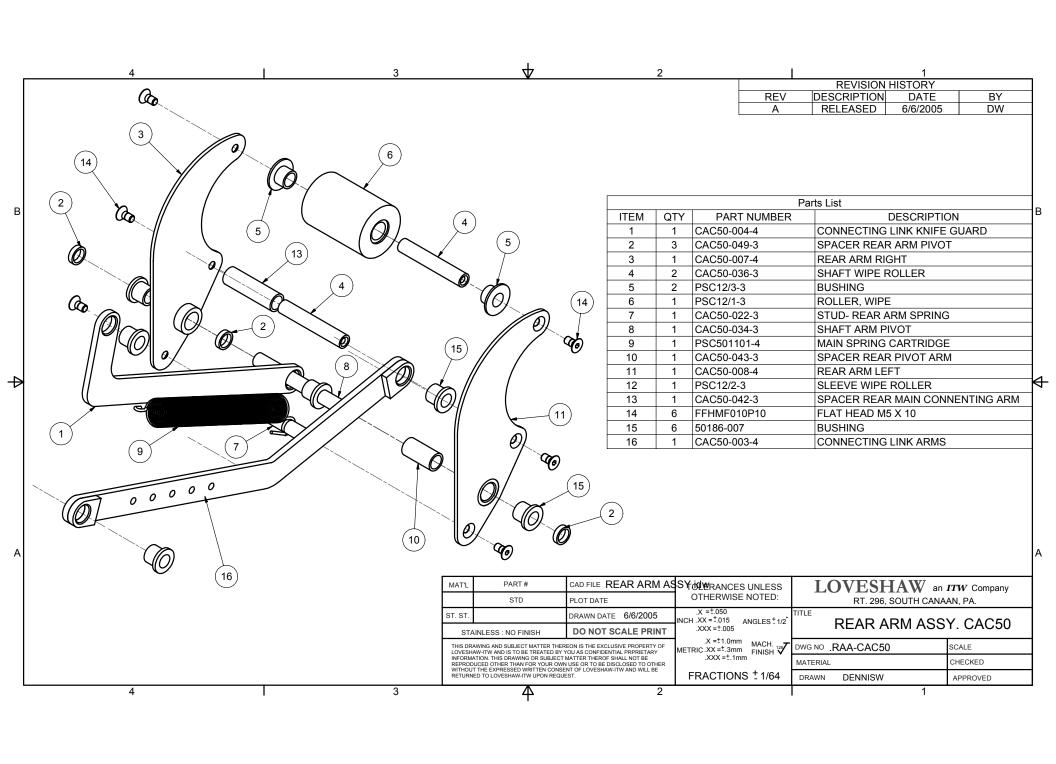


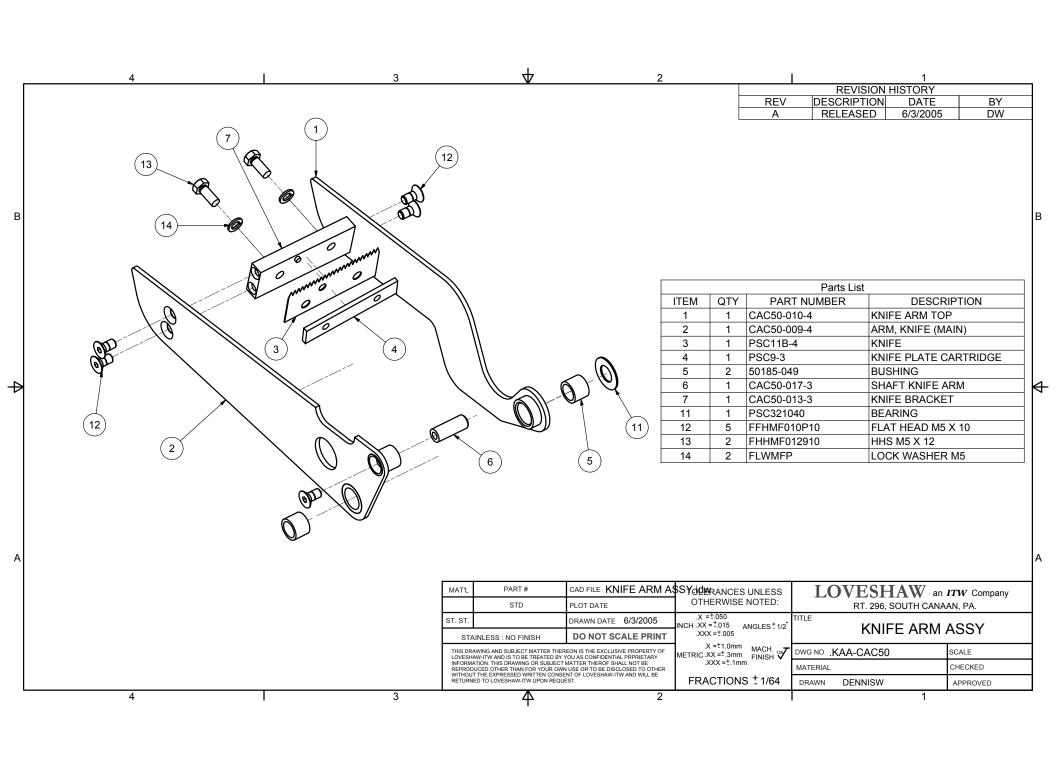


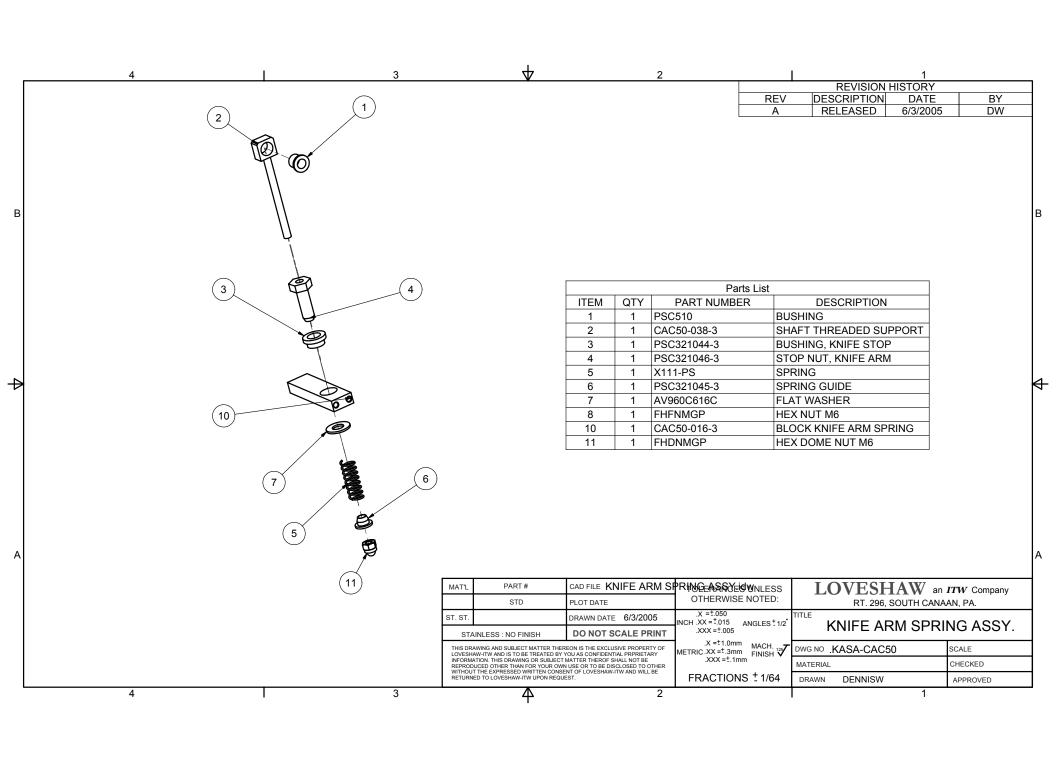


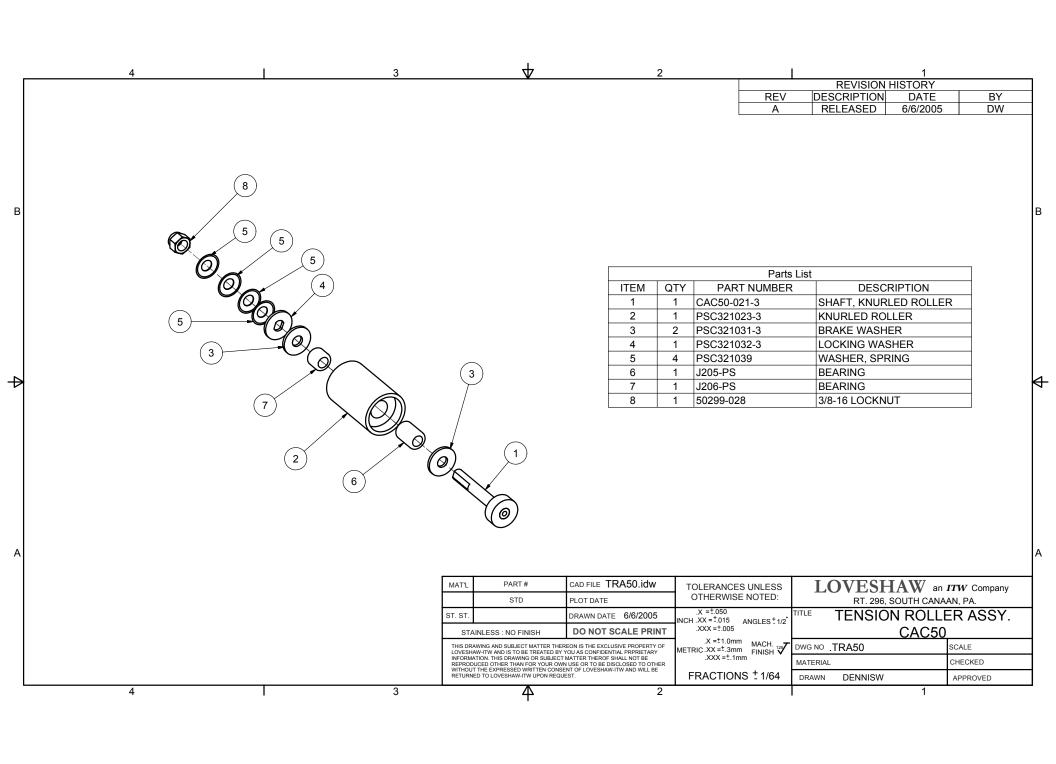


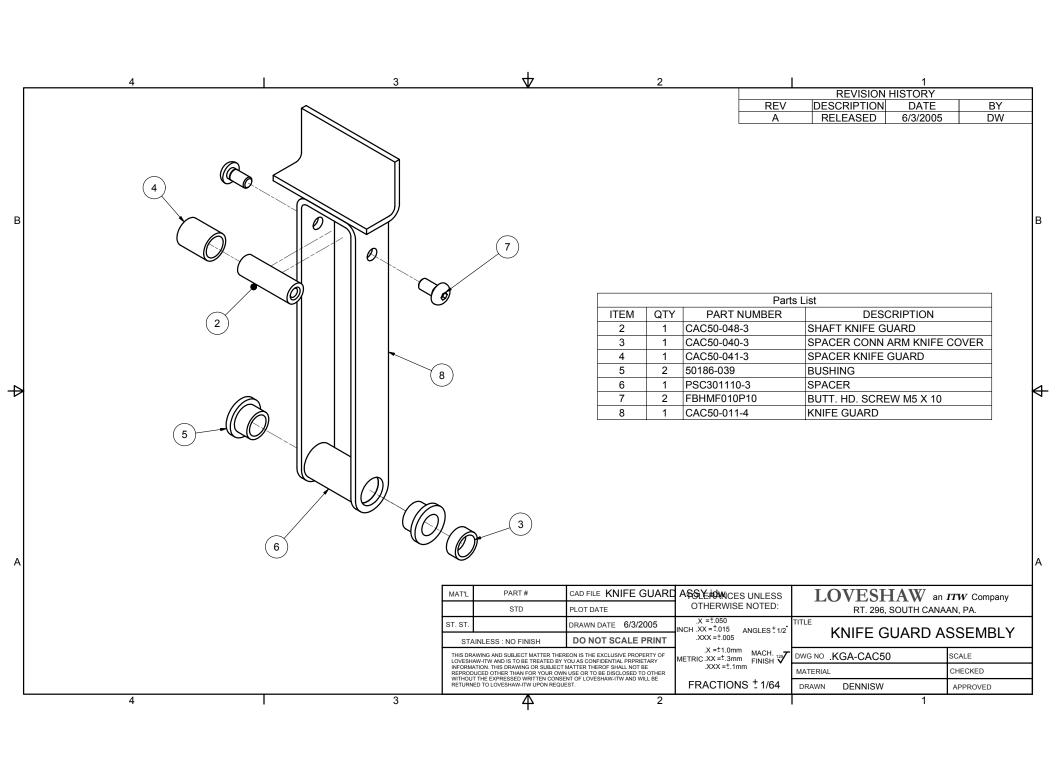


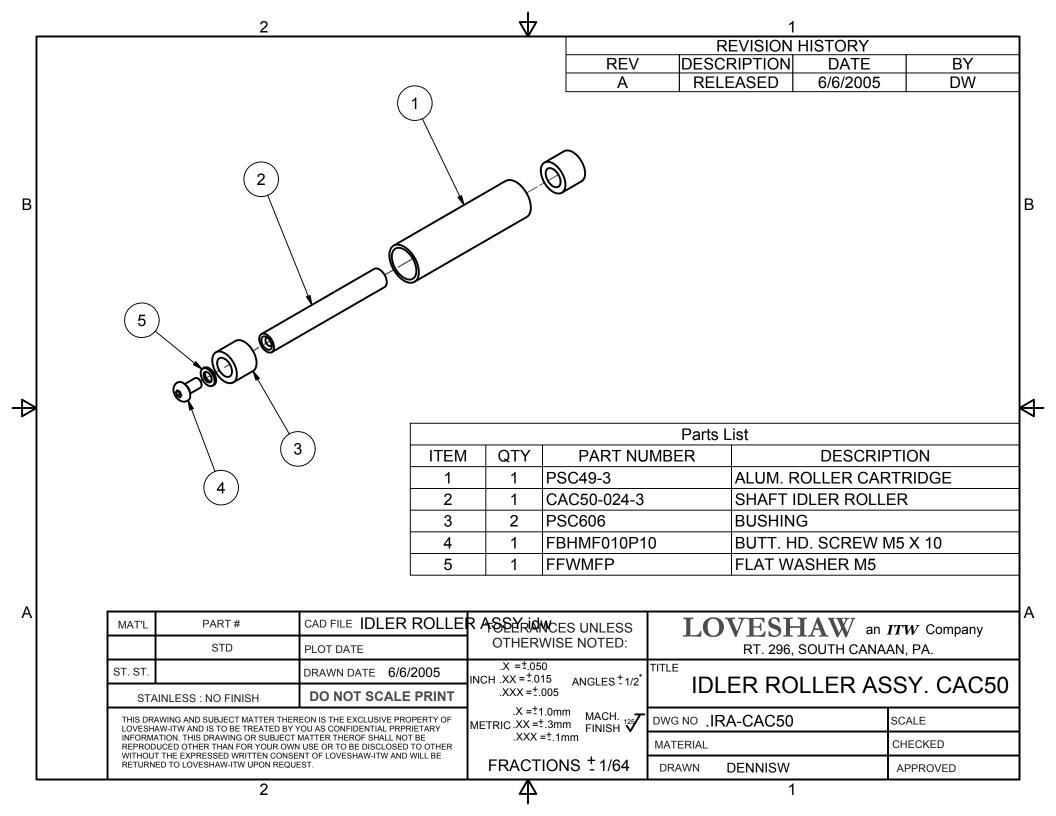


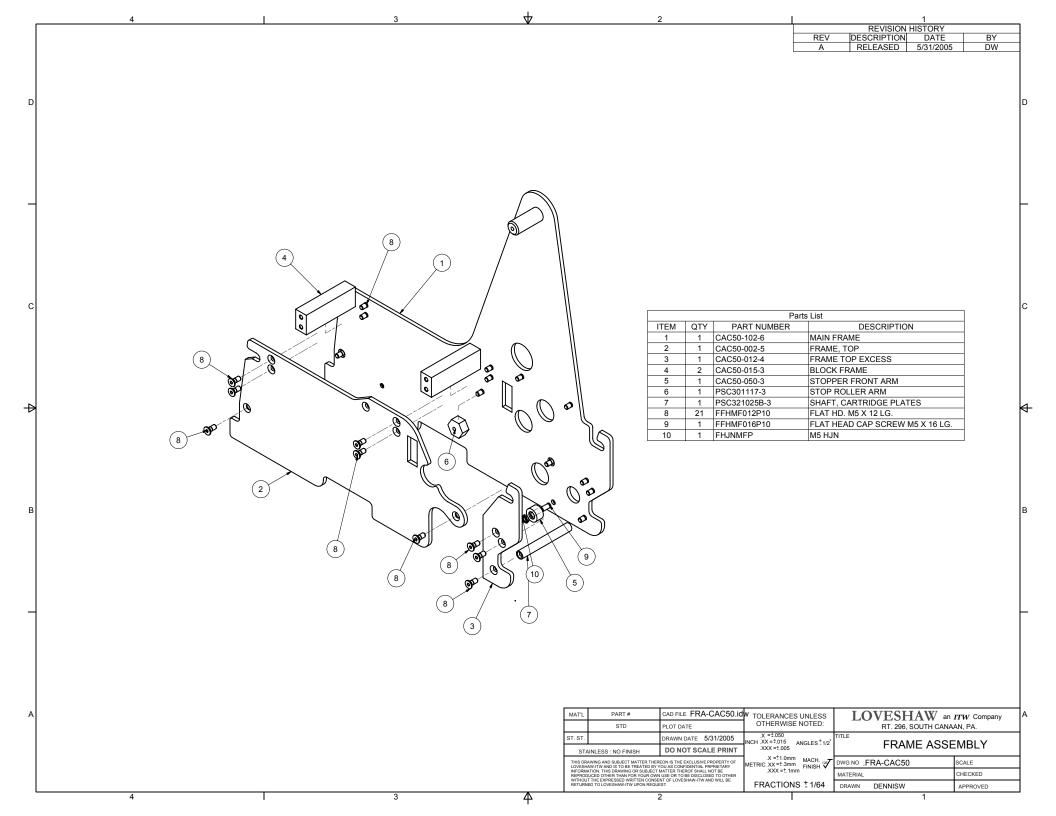


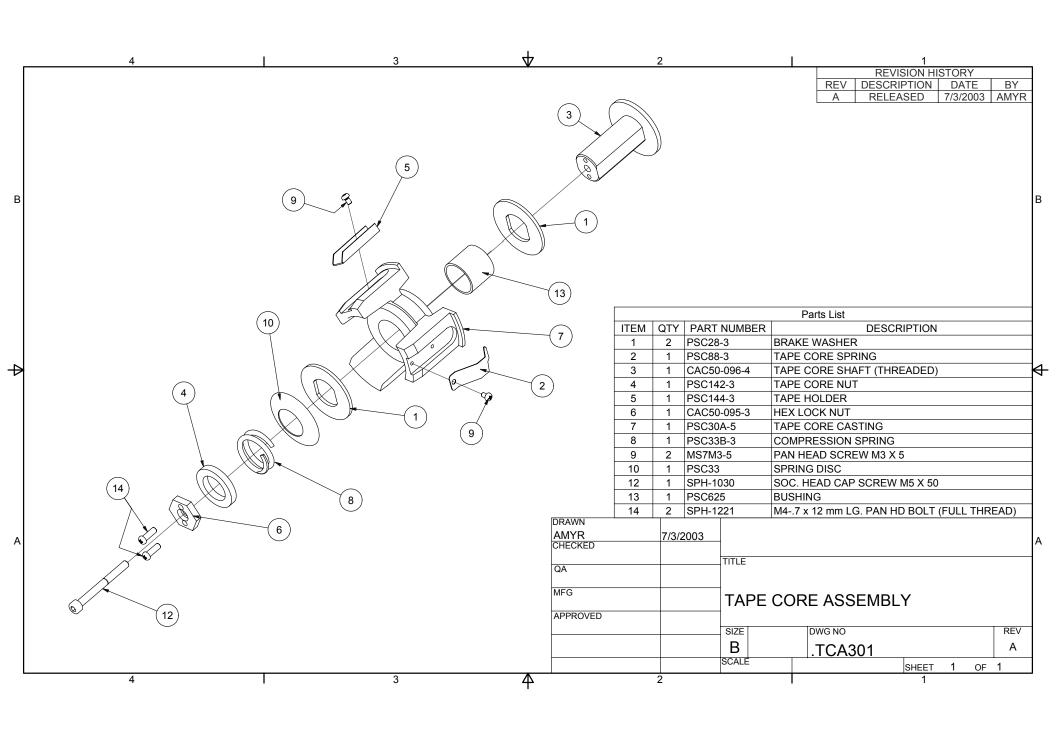












TAPE CORE ASSEMBLY ADJUSTMENT PROCEDURES

(.TCA201 = 3" TAPE CORE AND .TCA301 = 2" TAPE CORE)

STEP 1: UNLOCKING THE TAPE CORE FOR ADJUSTMENT:

THERE IS A LOCKING BOLT USED TO MAINTAIN THE HEIGHT ADJUSTMENT OF THE TAPE CORE. THIS MUST BE LOOSENED TO CHANGE THE HEIGHT OF THE TAPE CORE. THIS WILL ALLOW YOU TO ADJUST THE HEIGHT OF THE TAPE (TRACKING) THROUGH THE CARTRIDGE. USING A 3 mm HEX KEY WRENCH TURN IN A COUNTERCLOCKWISE DIRECTION TO LOOSEN THE SOCKET HEAD CAP SCREW (SPH-1030). THEN TURN THE TAPE CORE NUT LP06B-039-3 (3") OR PSC142-3 (2") IN A COUNTERCLOCKWISE DIRECTION TO REMOVE DRAG FROM THE DISC SPRING (PSC33). BE SURE TO LOOSEN ENOUGH TO ALLOW THE TAPE CORE INTERNAL ASSEMBLY TO SPIN FREELY AND ADJUST UP AND DOWN.

STEP 2: ADJUSTING THE TAPE CORE HEIGHT:

THE INTERNAL ASSEMBLY IS THREADED ON A STUD MOUNTED ON THE CARTRIDGE MILL STAND. BY HOLDING THE EXTERNAL PART OF THE TAPE CORE ASSEMBLY AND ROTATING THE HEX LOCK NUT CAC50-101-3 (3") OR CAC50-095-3 (2") THE INTERNAL ASSEMBLY WILL ROTATE CHANGING THE HEIGHT OF THE TAPE CORE ASSEMBLY. TURN IN A CLOCKWISE DIRECTION TO DECREASE THE HEIGHT AND IN A COUNTERCLOCKWISE DIRECTION TO INCREASE THE HEIGHT. DO NOT OVER TIGHTEN THE INTERNAL ASSEMBLY. THIS MAY CAUSE DAMAGE TO THE TAPE CORE ASSEMBLY. RUN THE TAPE THROUGH THE CARTRIDGE AND CHECK FOR PROPER TAPE POSITION. REPEAT ADJUSTMENT AS REQUIRED TO CENTER TAPE.

STEP 3: ADJUSTING TAPE ROLL BACK LASH OR FREE SPIN:

THERE IS A DISC SPRING (PSC33) AND A SET OF BRAKE WASHERS (PSC28-3) USED TO SLOW THE FREE SPINNING OF THE TAPE ROLL CAUSED WHEN THE TAPE IS PULLED THROUGH THE CARTRIDGE. BY ROTATING THE TAPE CORE NUT LP06B-039-3 (3") OR PSC142-3 (2") IN A CLOCKWISE DIRECTION THIS WILL INCREASE THE DRAG FROM THE DISC SPRING (PSC33) RESTRICTING THE AMOUNT OF FREE SPIN. THIS SHOULD BE SET WITH JUST ENOUGH DRAG TO STOP THE FREE SPINNING. TOO MUCH OR TOO LITTLE WILL AFFECT THE CARTRIDGE TAPING PERFORMANCE. RUN TAPE THROUGH THE CARTRIDGE AND CHECK FOR TAPE ROLL FREE SPIN. REPEAT ADJUSTMENT AS REQUIRED TO SET TAPE ROLL FREE SPIN.

STEP 4: LOCKING THE TAPE CORE:

AFTER THE TAPE IS CENTERED AND THE TAPE ROLL FREE SPIN IS PROPERLY ADJUSTED THE TAPE CORE SHOULD BE LOCKED INTO POSITION. USING A 3 mm HEX KEY WRENCH TURN IN A CLOCKWISE DIRECTION TO TIGHTEN THE SOCKET HEAD CAP SCREW (SPH-1030). THIS WILL INSURE THAT THE HEIGHT ADJUSTMENT IS MAINTAINED DURING OPERATION.

LITTLE DAVID

TAPE CARTRIDGE MANUAL



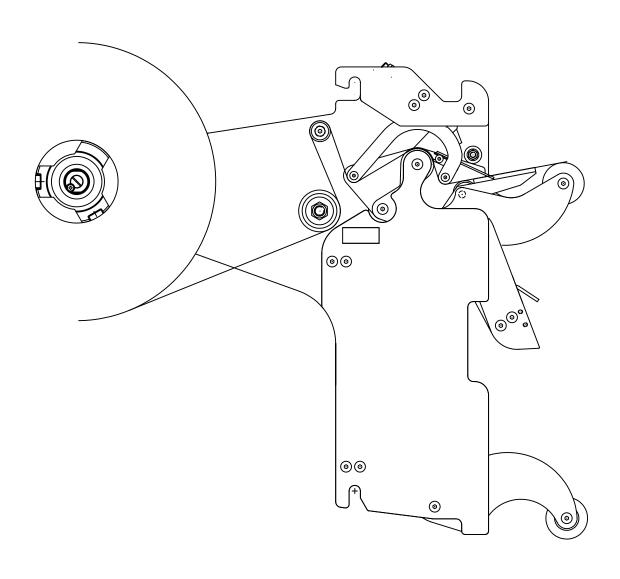
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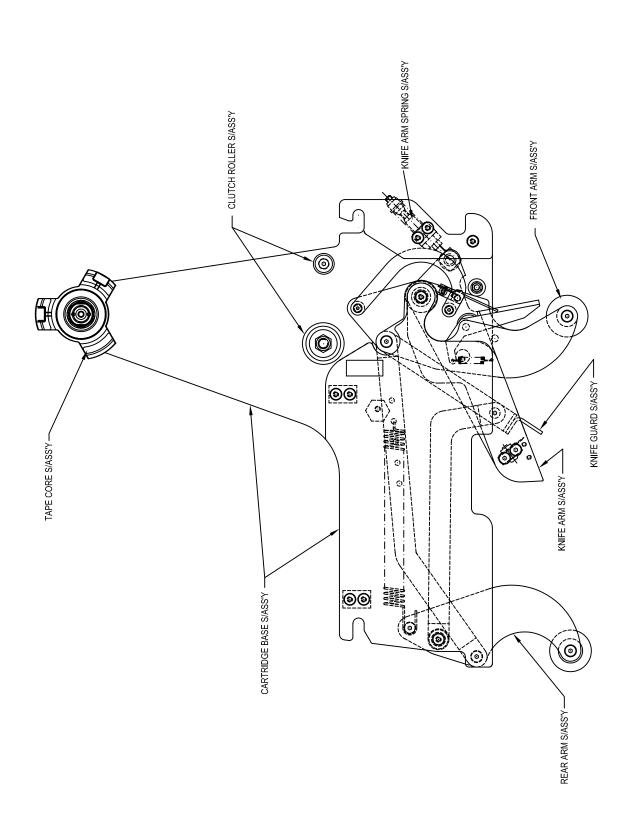
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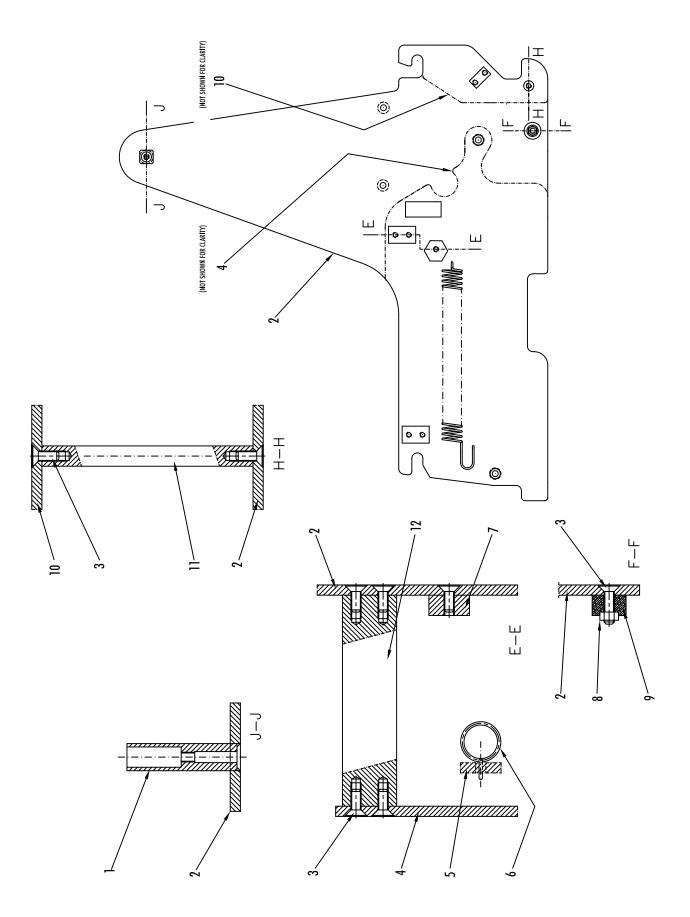
TAPE THREADING DIAGRAM



CARTRIDGE OVERVIEW



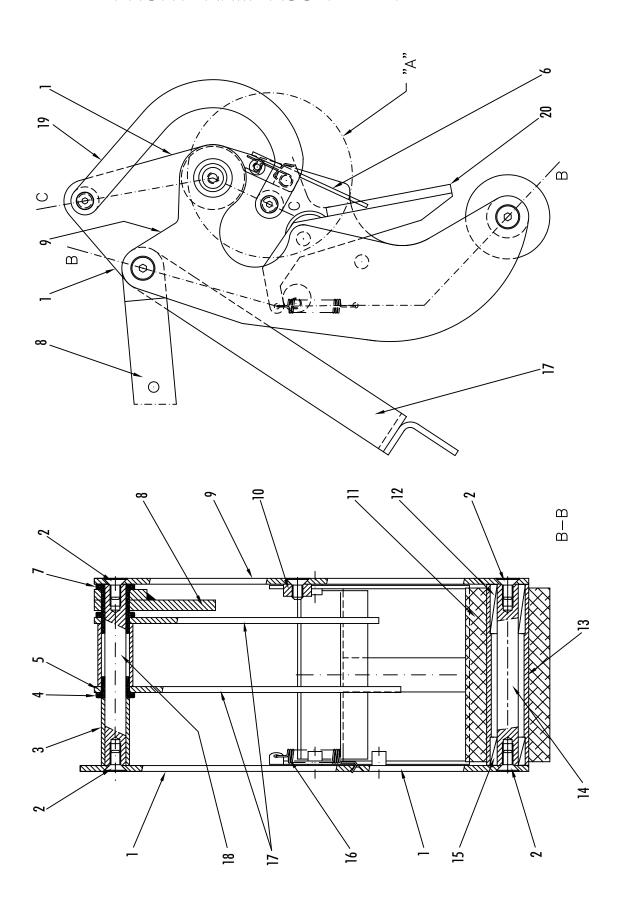
CARTRIDGE BASE ASS'Y



CARTRIDGE BASE ASSEMBLY

KEY	PART NUMBER	DESCRIPTION	QTY
1	CAC50-047-3	SLEEVE	1
2	CAC50-102-6	FRAME - MAIN	1
3		M5 X FH. SCREW	23
4	CAC50-002-5	FRAME - TOP	1
5	CAC50-003-4	CONNECTING LINK - ARMS	1
6	PSC501101-4	CARTRIDGE MAIN SPRING	1
7	PSC301117-3	STOP ROLLER ARM	2
8		M5 HEX NUT	1
9	CAC50-050-3	STOPPER - FRONT ARM	2
10	CAC50-012-3	FRAME - TOP EXCESS	1
11	CAC51-017-4	SHAFT - CARTRIDGE PLATE	1
12	CAC51-008-3	BLOCK - FRAME	2

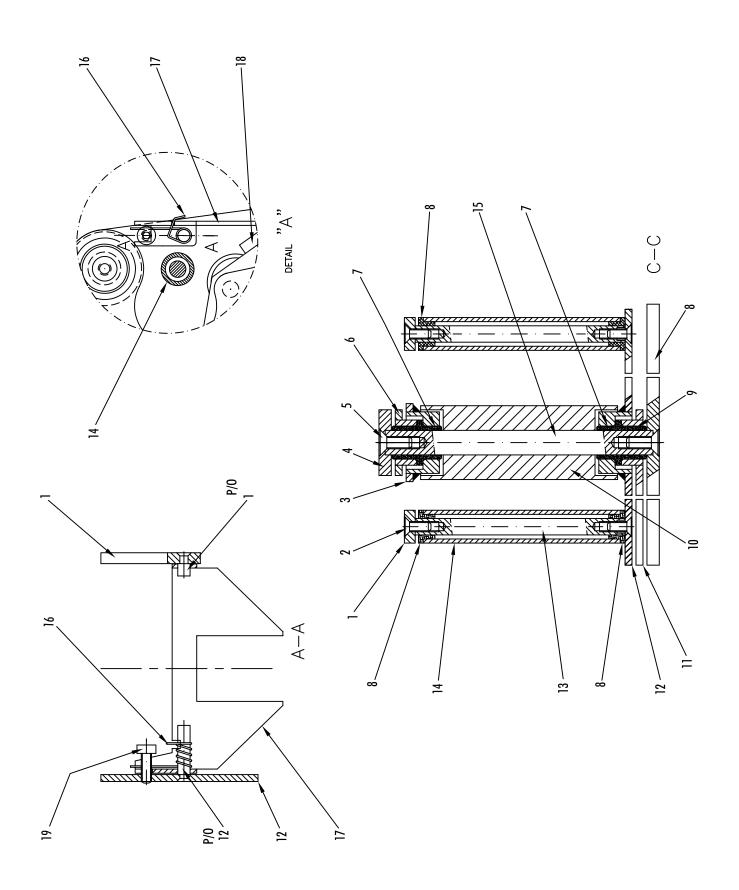
FRONT ARM ASS'Y - 1



FRONT ARM ASSEMBLY

KEY	PART NUMBER	DESCRIPTION	QTY
1	CAC50-005-4	FRONT ARM - MAIN	1
2	0.054.040.0	M5 X 10 FH. SCREW	3
3	CAC51-013-3	SPACER - CONN. ARM	1
4	50186-039	BRONZE FLANGE BUSHING 3/8 X 1/2 X 3/8	2
5	PSC301110-3	SPACER - 1/2 ID X 1 1/8 LONG	1
6	PSC441013-4	TAPE HOLD DOWN PLATE	1
7	50186-007	BRONZE FLANGE BUSHING 3/8 X 1/2 X 1/2	1
8	CAC50-003-4	CONNECTING LINK - ARMS	1
9	CAC50-006-4	FRONT ARM - TOP	2
10	PSC139-3	STOP - TAPE GUIDE PLATE	1
11	LP06B-003B-3	WIPE ROLLER	2
12	J205-PS	TORRINGTON BEARING	1
13	CAC51-003-3	SLEEVE - NEEDLE BEARING	1
14	CAC51-002-3	SHAFT - FRONT ROLLER	1
15	J206-PS	TORRINGTON BEARING	1
16	PSC26-3	SPRING EXT GUIDE PLATE	1
17	CAC51-018-4	KNIFE GUARD	1
18	CAC51-001-3	SHAFT - WIPE ROLLER	3
19	JBW1014-4	HORSE SHOE	1
20	CAC51-019-4	TAPE GUIDE PLATE	1

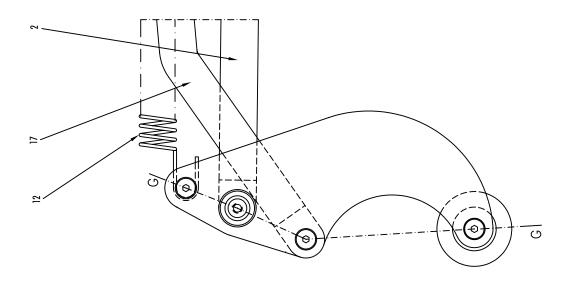
FRONT ARM ASS'Y - 2

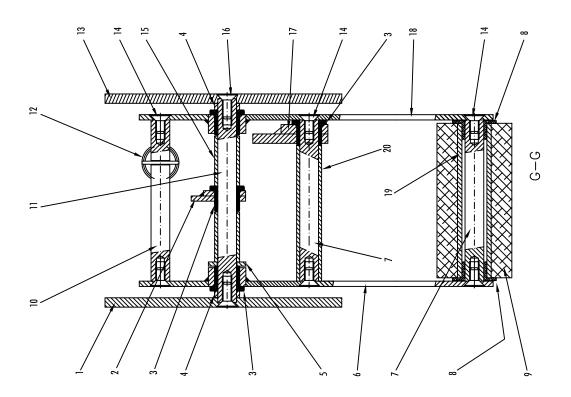


FRONT ARM ASSEMBLY 2

KEY	PART NUMBER	DESCRIPTION	QTY
1	JBW1014-3	HORSE SHOE	1
2 3	CACEO 006 4	M4 X FH. SCREW	3 2
3 4	CAC50-006-4 CAC50-002-5	FRONT ARM - TOP FRAME - TOP	1
5	CAC50-002-5	M5 X FH. SCREW	23
6	CAC50-010-4	KNIFE ARM - TOP	23 1
7	50186-039	BRONZE FLANGE BUSHING	4
,	30100-039	3/8 X 1/2 X 3/8	7
8	PSC599	NYLON BUSHING	5
9	50185-049	BRONZE FLANGE BUSHING 3/8 X 1/2 X 3/8	2
10	CAC51-016-3	CENTER ROLLER - 1.12 DIA.	2
11	CAC50-009-4	KNIFE ARM - MAIN	1
12	CAC50-005-4	FRONT ARM - MAIN	1
13	CAC51-015-3	SHAFT KNURLED ROLLER	2
14	CAC51-012-3	KNURLED ROLLER - 1/2" DIA.	2
15	CAC51-011-3	SHAFT - PIVOT ARM	2
16	PSC321022-4	FINGER PLATE SPRING	1
17	PSC441013-4	TAPE HOLD DOWN PLATE	1
18	CAC51-019-4	TAPE GUIDE PLATE	1
19		M4 X 15 ROUND HD. SCREW	1

REAR ARM ASS'Y

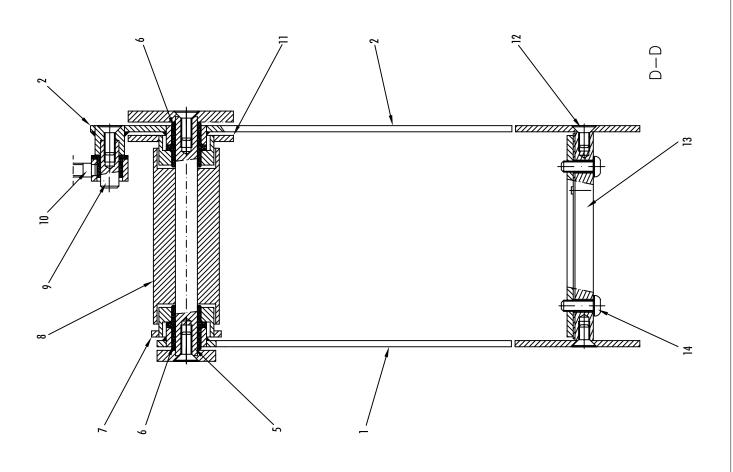


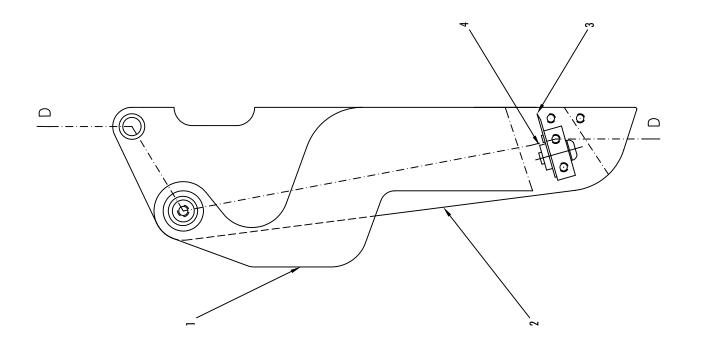


REAR ARM ASSEMBLY

KEY	PART NUMBER	DESCRIPTION	QTY
1	CAC50-102-6	FRAME - MAIN	1
2	CAC50-004-4	CONN. LINK - KNIFE GUARD	1
3	50186-007	BRONZE FLANGE BUSHING 3/8 X 1/2 X 1/2	6
4	CAC50-049-3	SPACER - REAR ARM PIVOT	2
5		3/8 DIA. NOM SAE WASHER	1
6	CAC50-007-4	REAR ARM - TOP	1
7	CAC51-001-3	SHAFT - WIPE ROLLER	3
8	PSC12/3-3	BUSHING - WIPE ROLLER	2
9	LP06B-003B-3	WIPE ROLLER	2
10	CAC51-010-3	STUD - REAR ARM SPRING	1
11	CAC51-011-3	SHAFT - PIVOT ARM	2
12	PSC501101-4	CARTRIDGE MAIN SPRING	1
13	CAC50-002-5	FRAME - TOP	1
14		M5 X 10 FH. SCREW	13
15	CAC50-043-3	SPACER - REAR PIVOT ARM	1
16		M5 X 12 FH. SCREW	23
17	CAC50-003-4	CONNECTING LINK - ARMS	1
18	CAC50-008-4	REAR ARM - LEFT	1
19	LP06B-003A-3	SLEEVE - WIPE ROLLER	1
20	CAC51-014-3	SPACER - REAR CONN. ARMS	1

KNIFE ARM ASS'Y

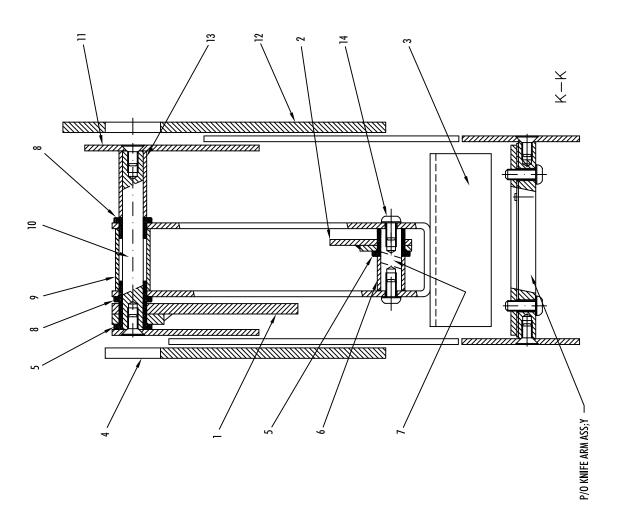


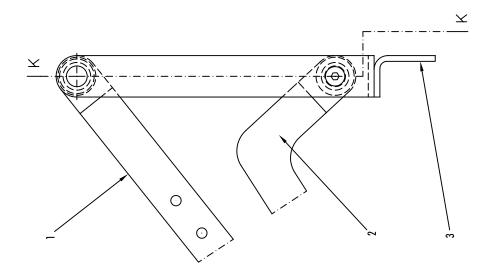


KNIFE ARM ASSEMBLY

KEY	PART NUMBER	DESCRIPTION	QTY
1	CAC50-010-4	KNIFE ARM - TOP	1
2	CAC50-009-4	KNIFE ARM - MAIN	1
3	PS4117A-3	KNIFE	1
4	LP06B-005-3	PLATE - KNIFE	1
5	CAC51-011-3	SHAFT - PIVOT ARM	2
6	50185-049	BRONZE FLANGE BUSHING	2
		3/8 X 1/2 X 3/8	
7	CAC50-006-4	FRONT ARM - TOP	2
8	CAC51-016-3	CENTER ROLLER - 1.12 DIA.	1
9	CAC50-017-3	SHAFT - KNIFE ARM	1
10	CAC50-038-3	THREADED SUPPORT SHAFT	1
11	CAC50-005-4	FRONT ARM - MAIN	1
12		M5 X FH. SCREW	13
13	CAC51-007-3	KNIFE BRACKET	1
14		M5 X 12 BUT. HD. SCREW	2

KNIFE GUARD ASS'Y

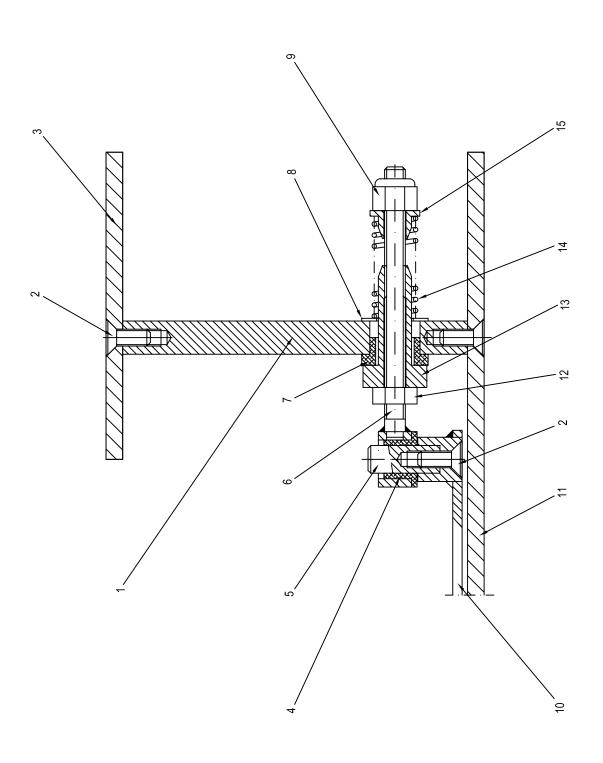




KNIFE GUARD ASSEMBLY

KEY	PART NUMBER	DESCRIPTION	QTY
1	CAC50-003-4	CONNECTING LINK - ARMS	1
2	CAC50-004-4	CONNECTING LINK - KNIFE GUARD	1
3	CAC51-018-4	KNIFE GUARD	1
4	CAC50-002-5	FRAME - TOP	1
5	50186-007	BRONZE FLANGE BUSHING 3/8 X 1/2 X 1/2	6
6	CAC50-041-3	SPACER - KNIFE GUARD	1
7	CAC50-048-3	SHAFT - KNIFE GUARD	1
8	50186-039	BRONZE FLANGE BUSHING 3/8 X 1/2 X 3/8	4
9	PSC301110-3	SPACER 1/2 ID X 1 1/8 LONG	1
10	CAC51-001-3	SHAFT - WIPE ROLLER	3
11	CAC50-005-4	FRONT ARM - MAIN	1
12	CAC50-102-6	FRAME - MAIN	1
13	CAC51-013-3	SPACER - CONN. ARM KNIFE COVER	1
14		M5 X 10 BUTTON HD. SCREW	3

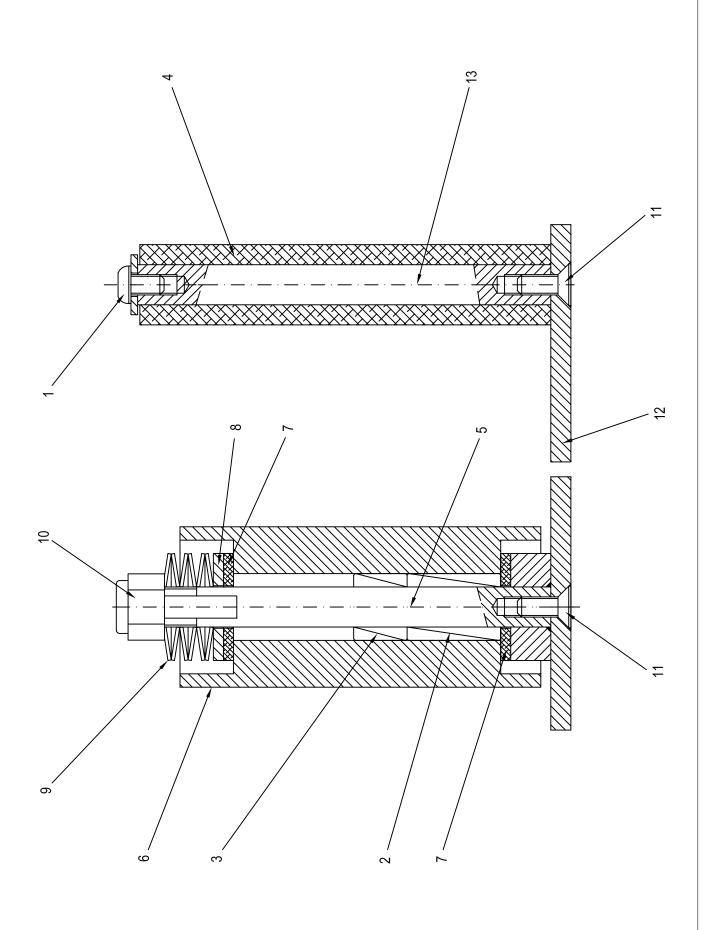
KNIFE ARM SPRING ASS'Y



KNIFE ARM SPRING ASSEMBLY

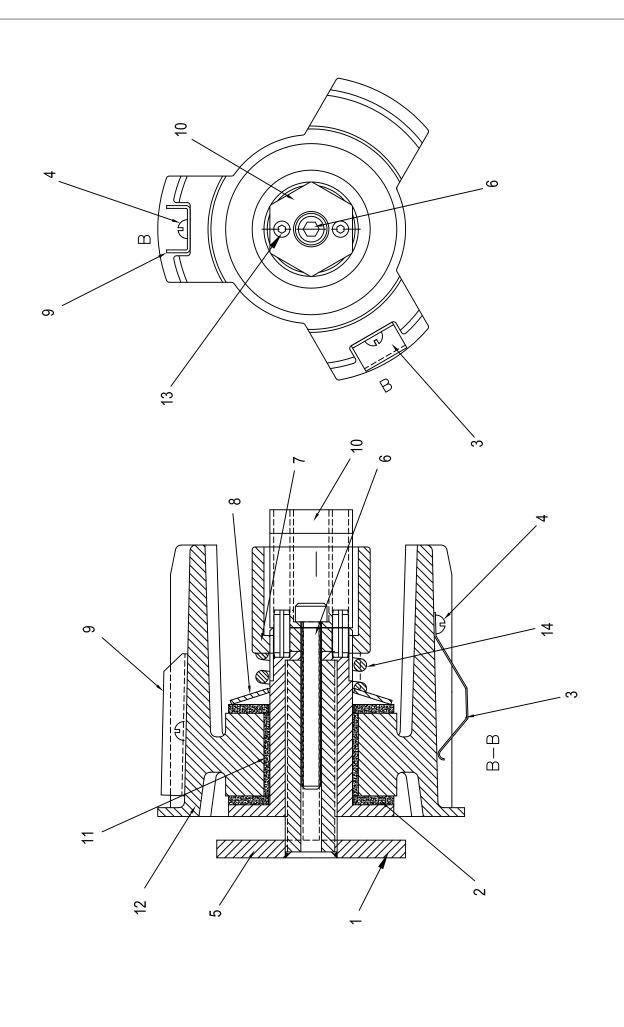
KEY	PART NUMBER	DESCRIPTION	QTY
1	CAC51-009-3	BLOCK - KNIFE ARM SPRING	1
2		M5 X 12 FH. SCREW	23
3	CAC50-002-5	FRAME - TOP	1
4	PSC510	BUSHING TIE BAR	1
5	CAC50-017-3	SHAFT - KNIFE ARM	1
6	CAC50-038-3	THREADED SUPPORT SHAFT	1
7	PSC321044-3	BUSHING - KNIFE STOP	1
8	AV960C616C	FLAT WASHER	1
9		M6 HEX NYLON INSERT NUT	1
10	CAC50-009-4	KNIFE ARM - MAIN	1
11	CAC50-102-6	FRAME - MAIN	1
12		M5 HEX NUT	1
13	PSC321046-4	STOP NUT	1
14	X111-PS	SPRING KNIFE ARM	1
15	PSC321045-4	SPRING GUIDE	1

CLUTCH ROLLER ASS'Y



CLUTCH ROLLER ASSEMBLY

KEY	PART NUMBER	DESCRIPTION	QTY
1		M5 X 10 BUTTON HD. SCREW	3
2	J205-PS	TORRINGTON BEARING	1
3	J206-PS	TORRINGTON BEARING	1
4	LP06B-010-3	IDLER ROLLER 3/4" DIA.	1
5	CAC51-004-3	KNURLED ROLLER SHAFT	1
6	PSC441014-4	KNURLED ROLLER	1
7	PSC321031-3	BRAKE WASHER	2
8	PSC321032-3	LOCKING WASHER	1
9	PSC321039	SPRING WASHER	6
10	50299-028	NYLON INSERT LOCKOUT	1
11		M5 X 12 FH. SCREW	23
12	CAC50-102-6	FRAME - MAIN	1
13	CAC51-005-3	SHAFT - IDLER ROLLER	1



TAPE CORE ASSEMBLY

KEY	PART NUMBER	DESCRIPTION	QTY
1	CAC50-102-6	FRAME - MAIN	1
2	PSC28-3	BRAKE WASHER	2
3	PSC88-3	TAPE SPRING	4
4	MS7M3-5	PHIL. HD. M3 X 5	3
5	CAC50-096-4	TAPE CORE SHAFT THREADED	1
6	SPH-1030	SOCKET HD. CAP SCREW	1
7	LP06B-039-3	TAPE CORE NUT	1
8	PSC33	DISC SPRING	1
9	PSC144-3	TAPE HOLDER	1
10	CAC50-101-3	HEX LOCK NUT	1
11	PSC625	BUSHING	1
12	LP06B-038-5	TAPE CORE CASTING	1
13	SPH-1049	DOWEL PIN	2
14	PSC33B-3	SPRING	1

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 YEARSGEAR REDUCER -2 YEARSGEAR MOTOR -2 YEARSTAPE CARTRIDGE -3 YEARS

(THIS APPLIES TO SIDE BELTS ONLY)

TRIDGE - 3 YEARS (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.)

 PLC 1 YEAR

 SERVO DRIVE 1 YEAR

ALL OTHER PARTS - 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 AND/OR 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 FACILITY WITHOUT 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.

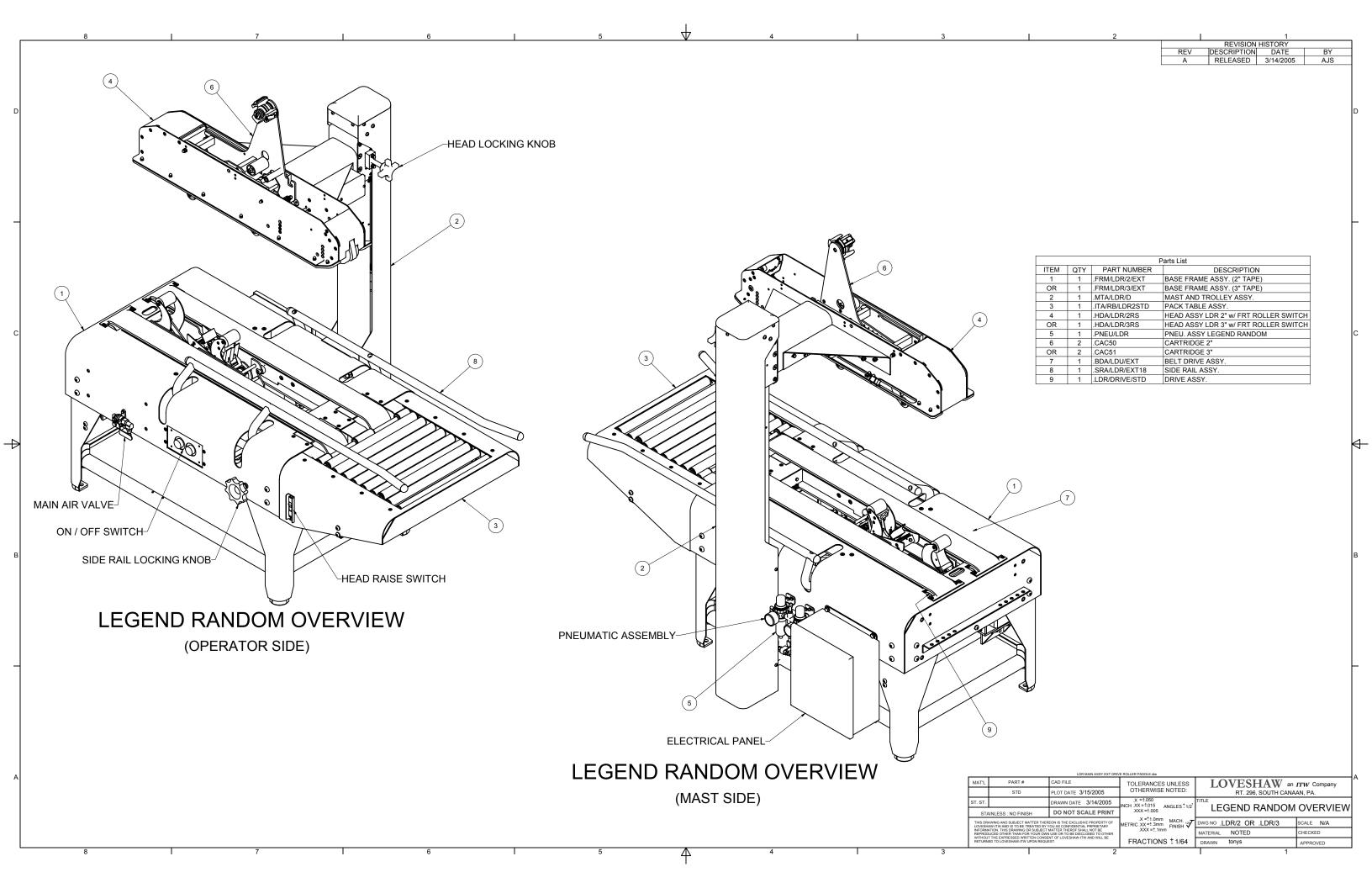
NO PERSON IS AUTHORIZED TO MAKE ANY WARRANTY OR TO CREATE ANY LIABILITY BINDING UPON *LOVESHAW*, WHICH IS NOT STATED IN THIS WARRANTY. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, *WHICH ARE HEREBY EXCLUDED*. IN PARTICULAR, THE IMPLIED WARRANTY OF MERCHANTABILITY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

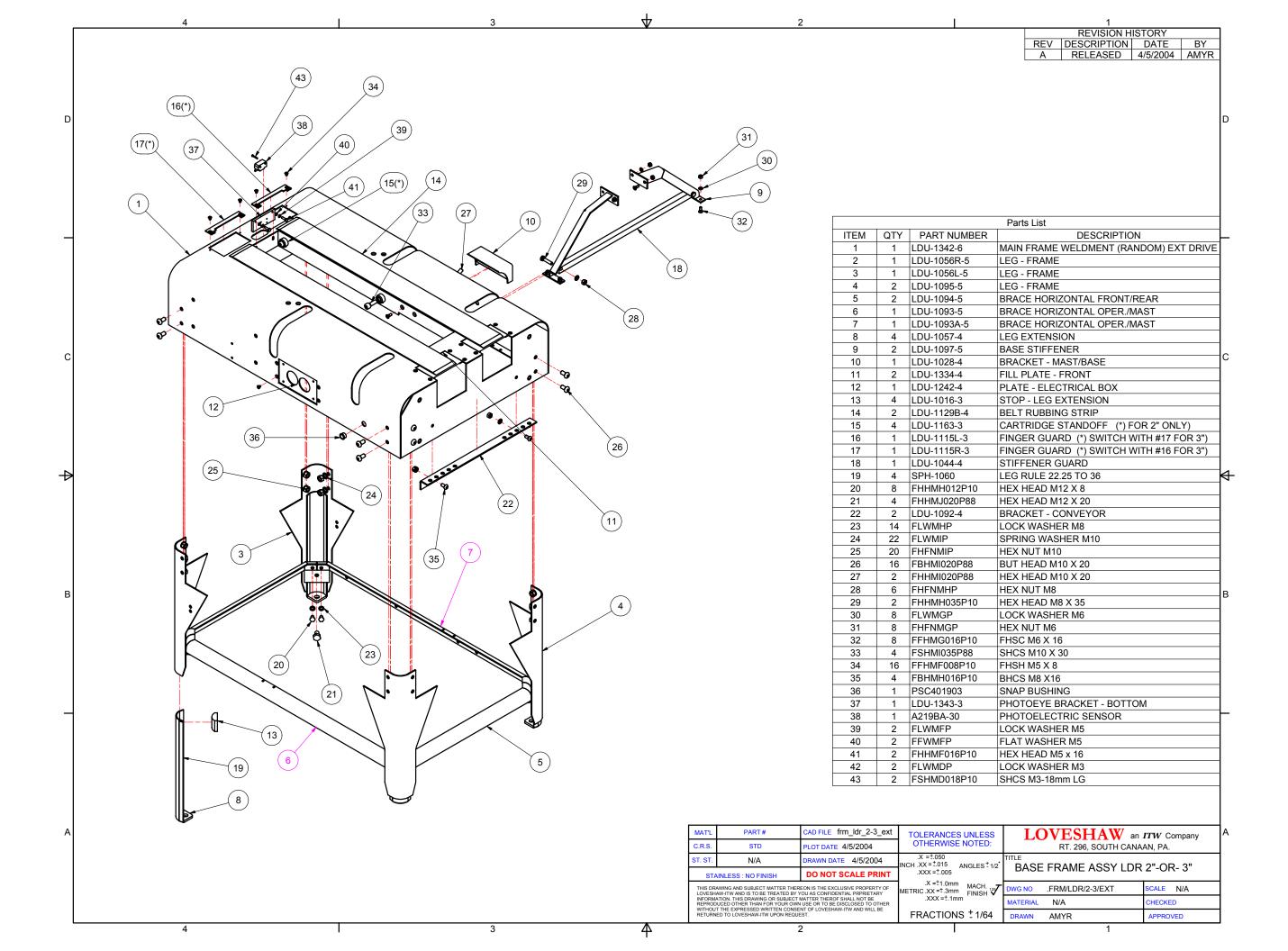
LOVESHAW AN ITW COMPANY

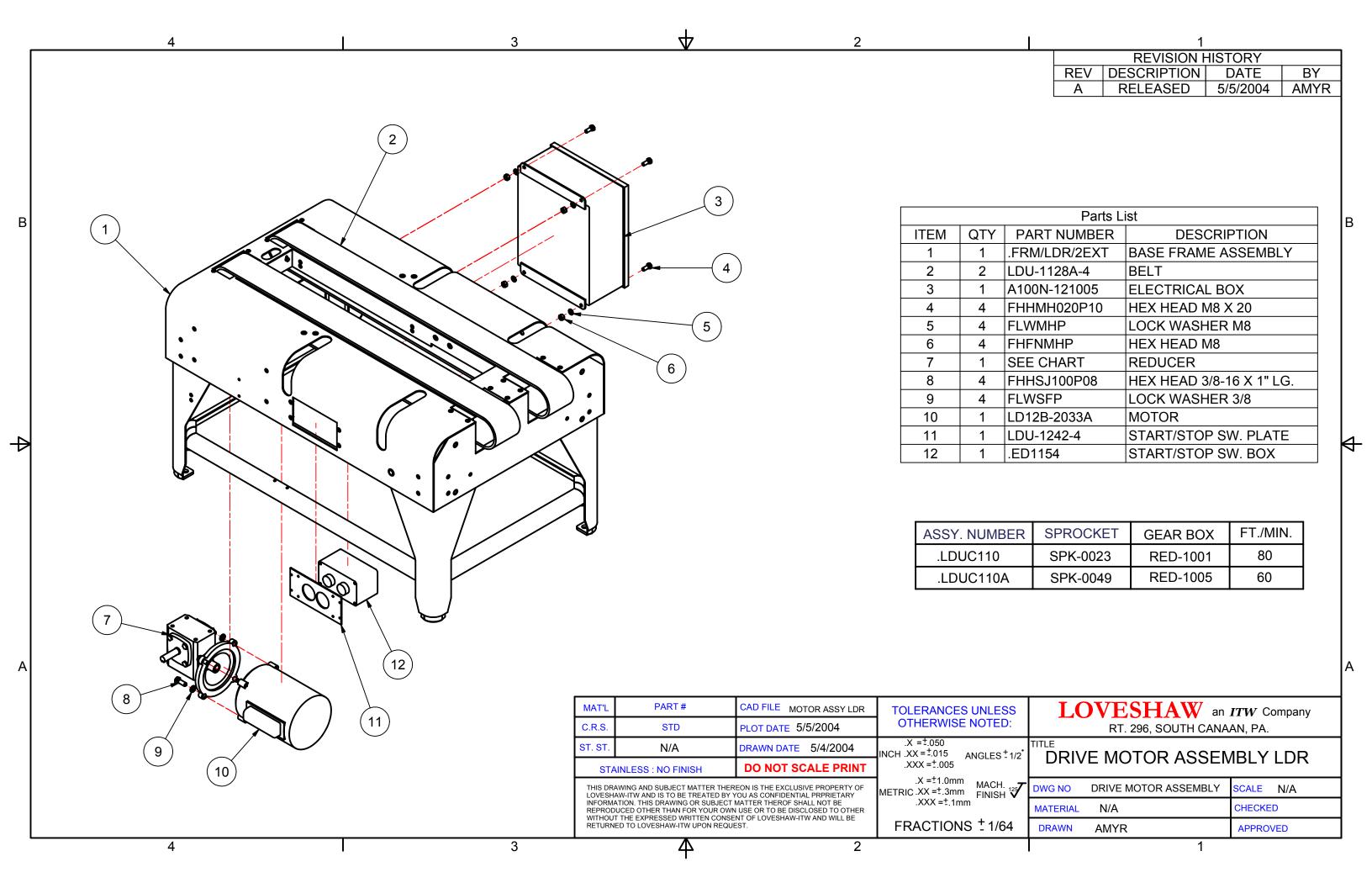
ROUTE 296, SOUTH CANAAN, PA 18459

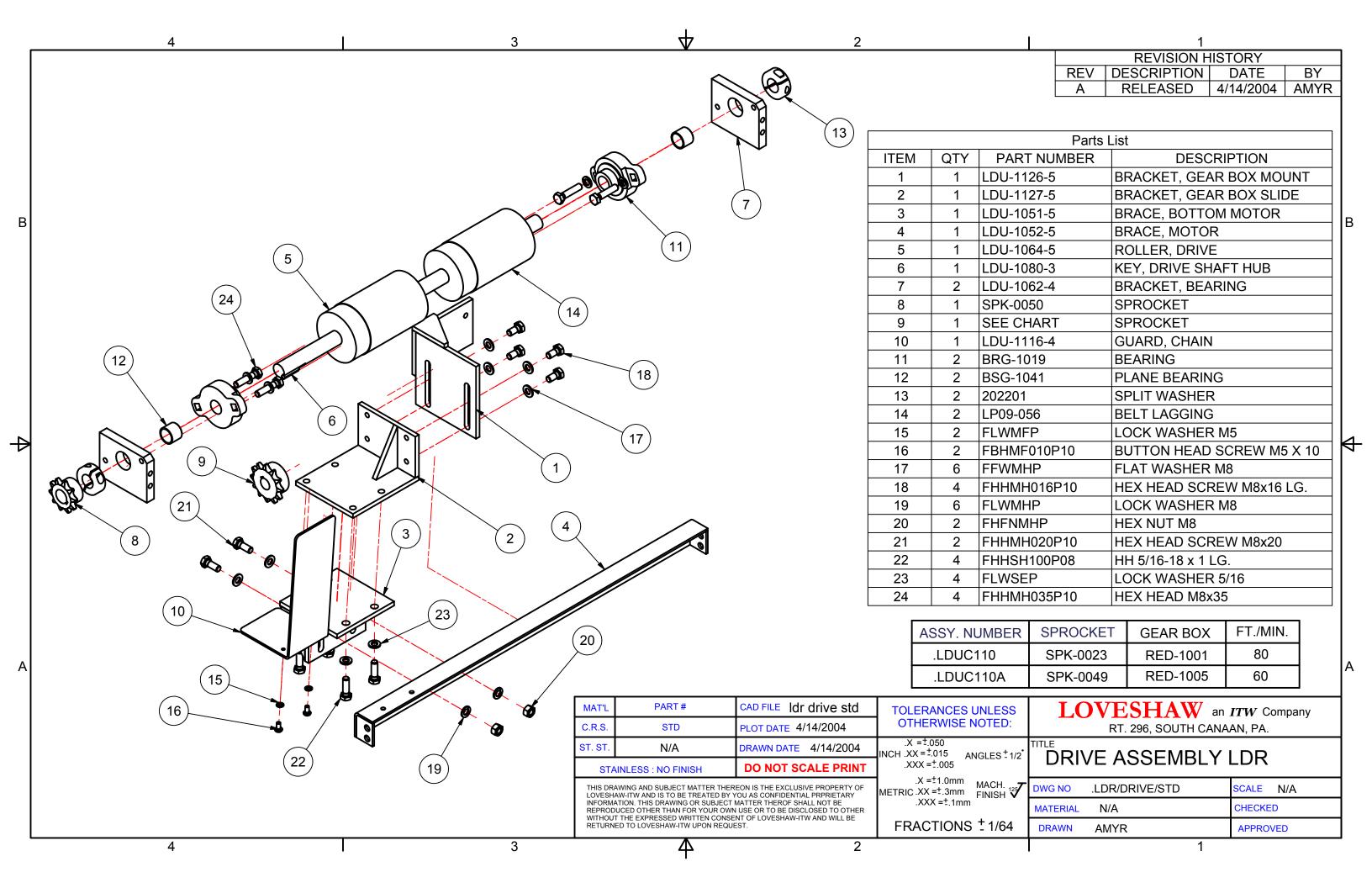
TEL: 570.937.4921 - 800.572.3434 - FAX: 570.937.3229

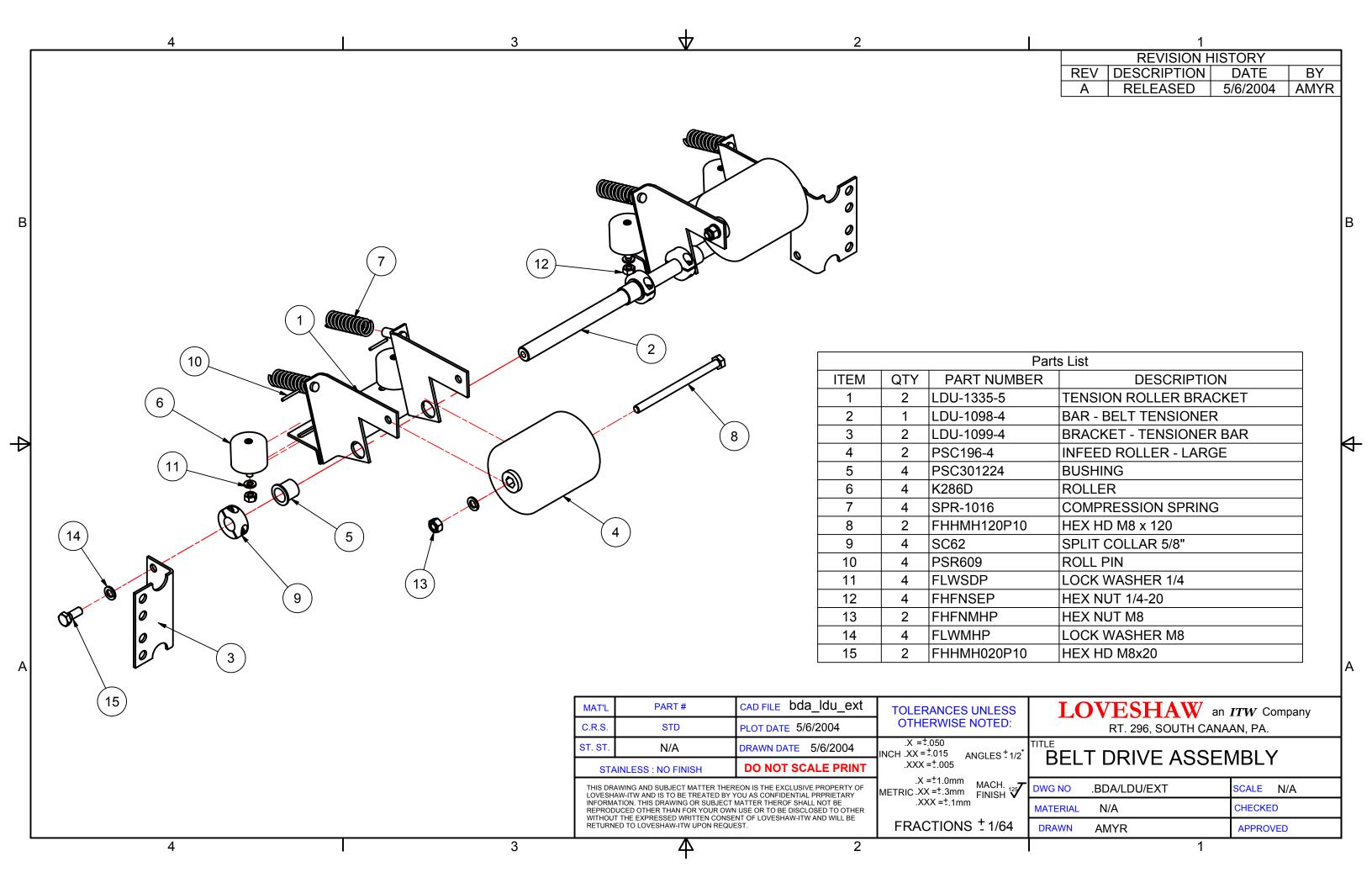
ILLUSTRATED ASSEMBLY DRAWINGS TABLE OF CONTENTS
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BASE FRAME ASSEMBLY
DRIVE ASSEMBLY - STANDARD
BELT DRIVE ASSEMBLY
DRIVE/MOTOR ASSEMBLY
HEAD ASSEMBLY
SIDE RAIL ASSEMBLY
MAST AND TROLLEY ASSEMBLY
TROLLEY ASSEMBLY
ROLLER PACK TABLE ASSEMBLY
PNEUMATIC SCHEMATIC

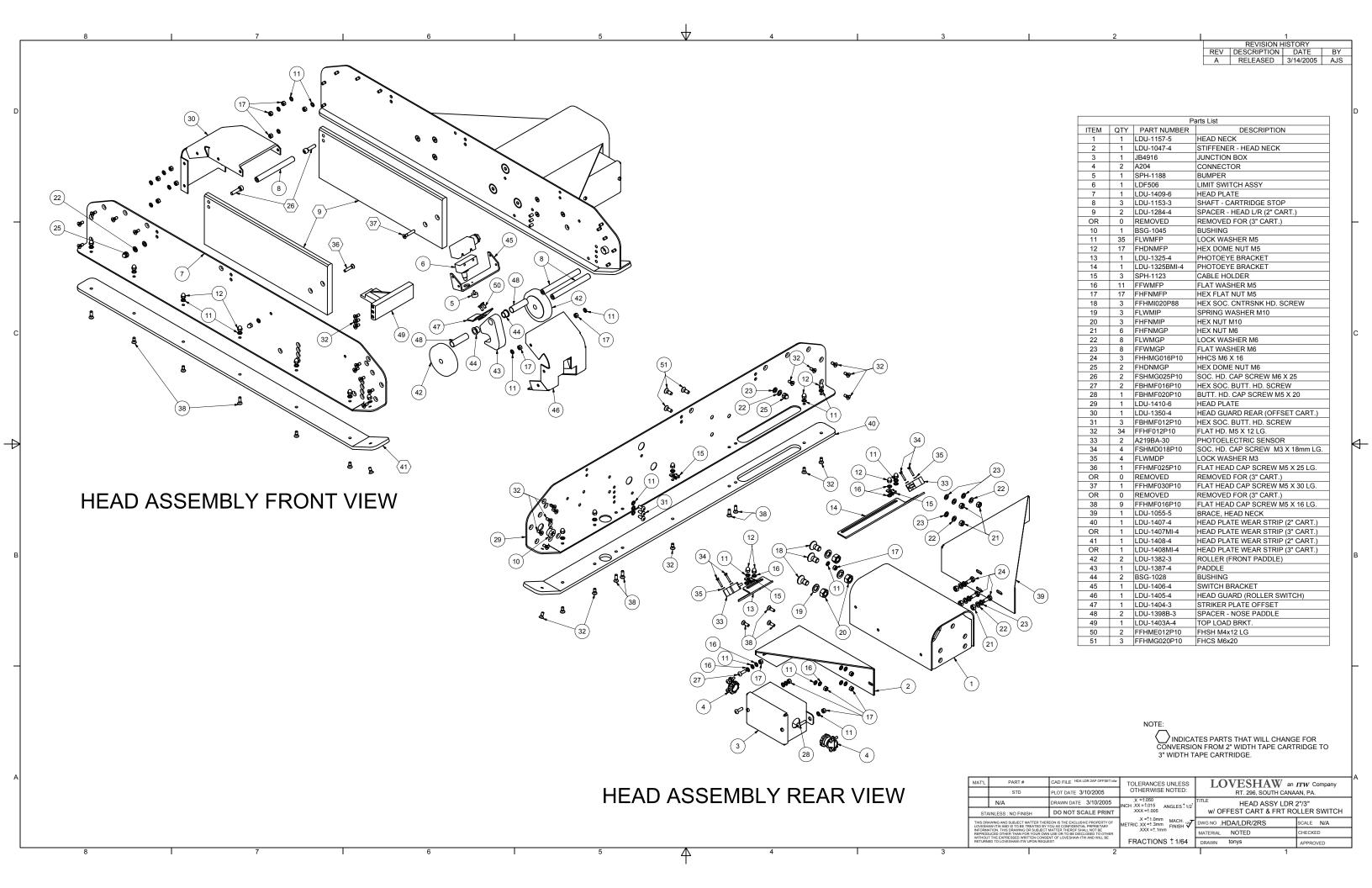


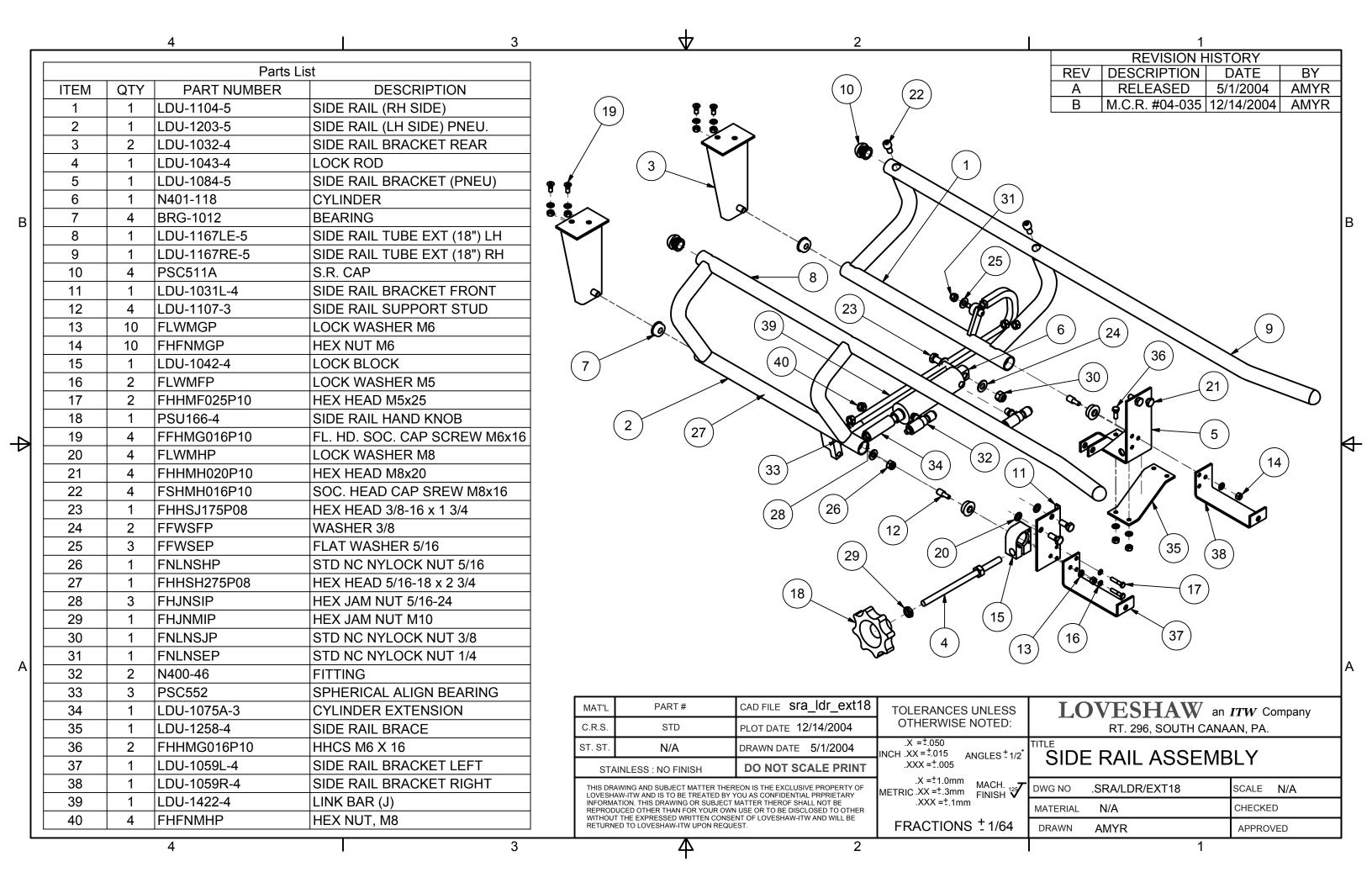


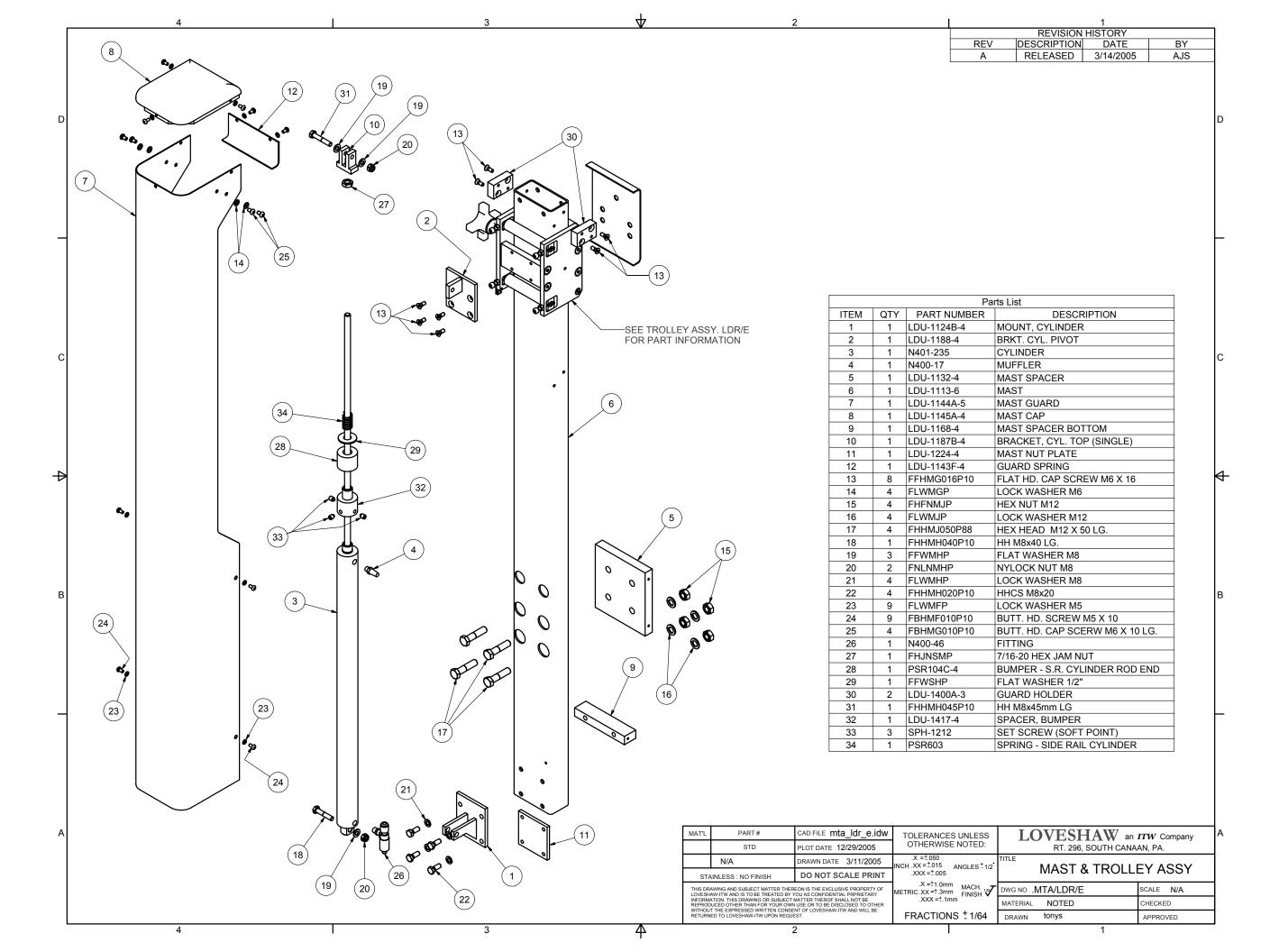


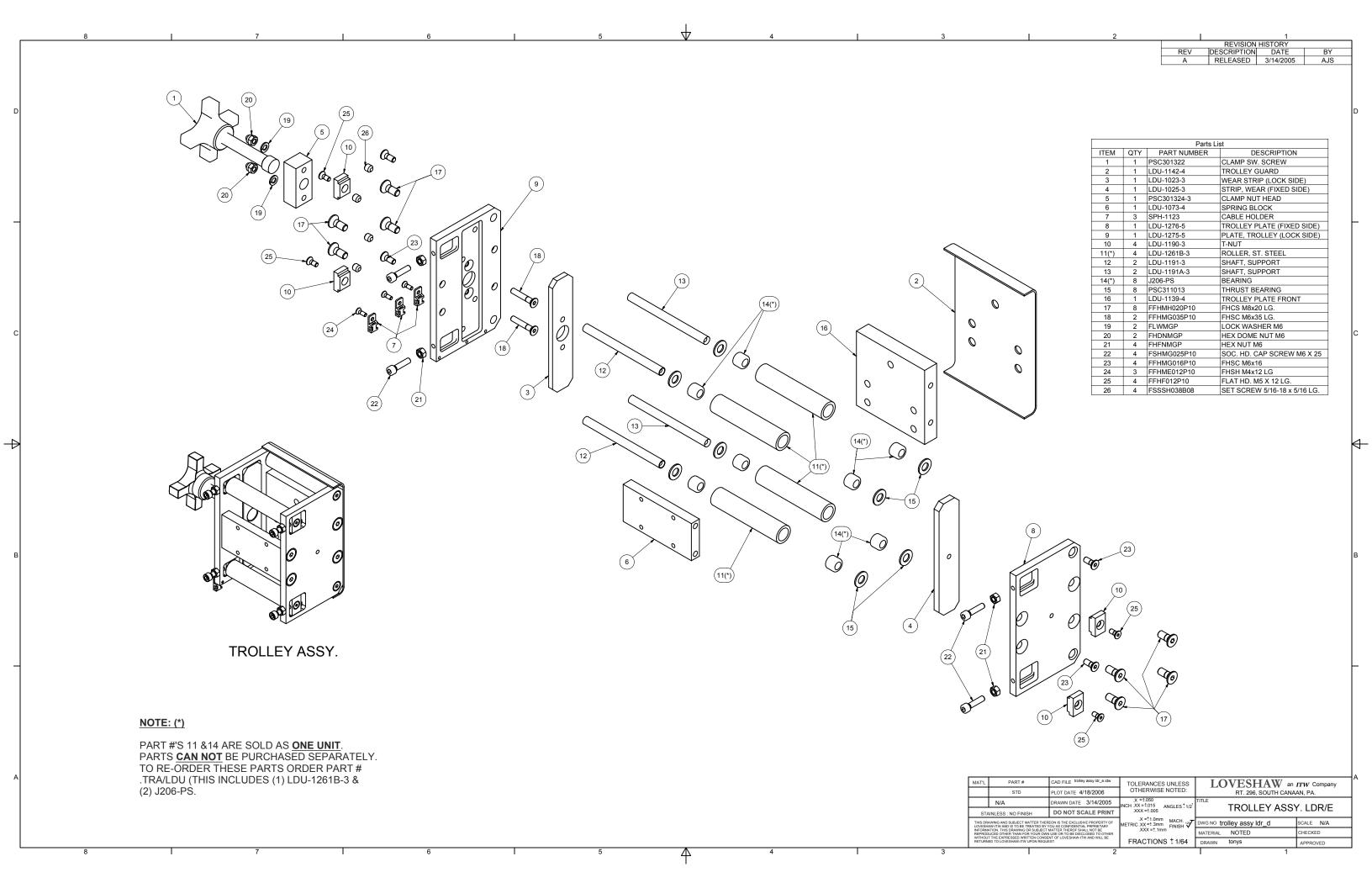


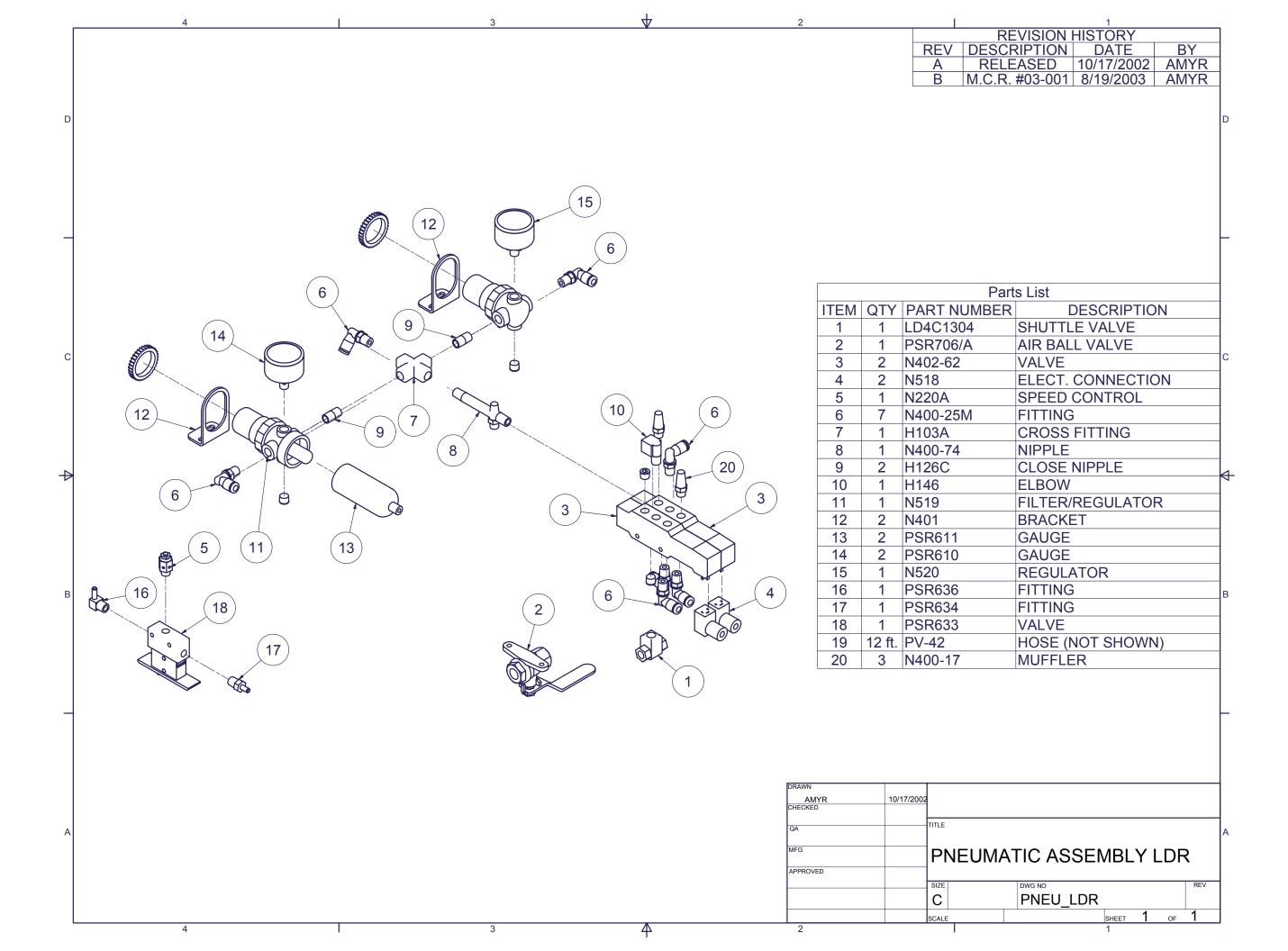


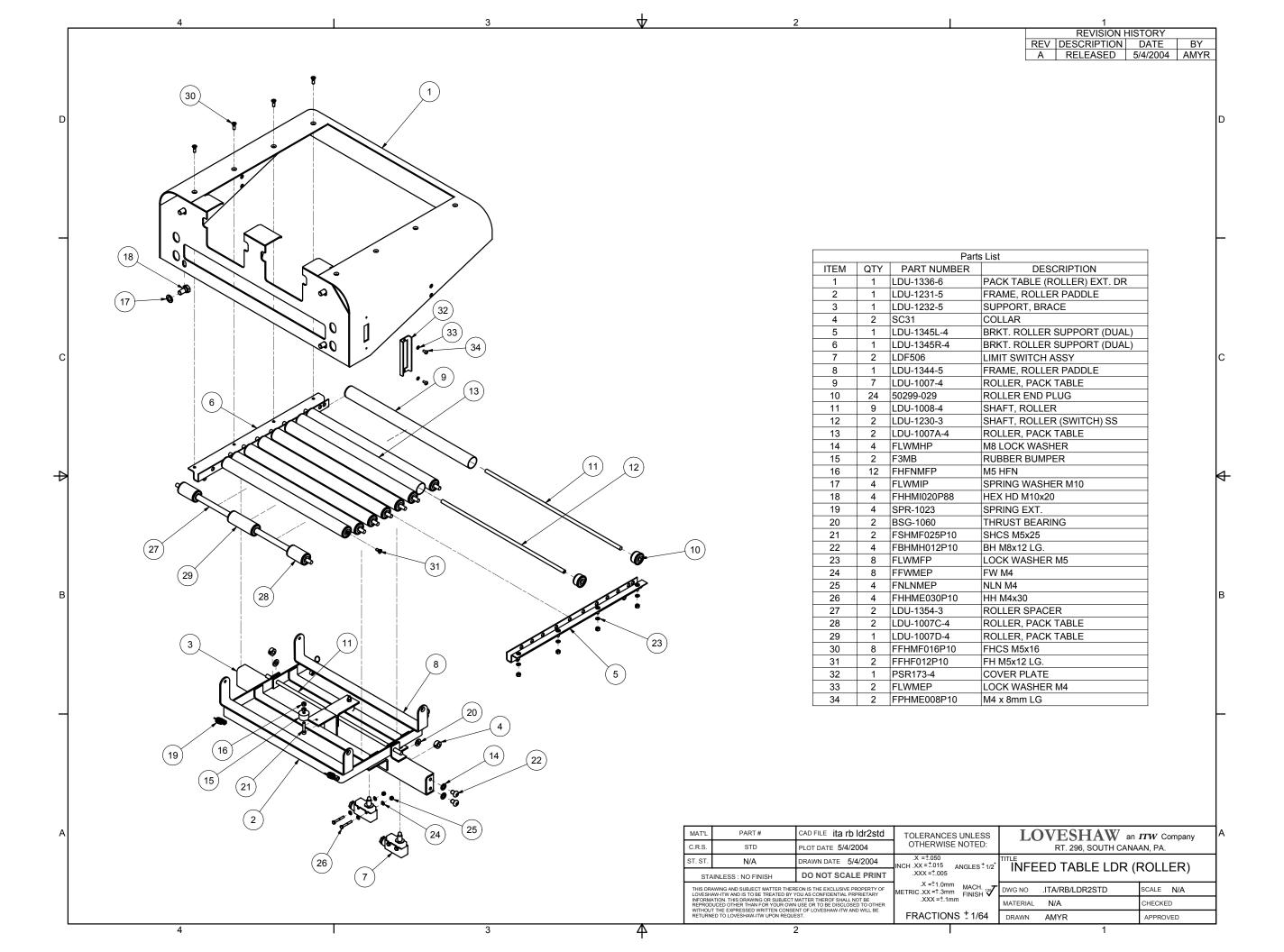


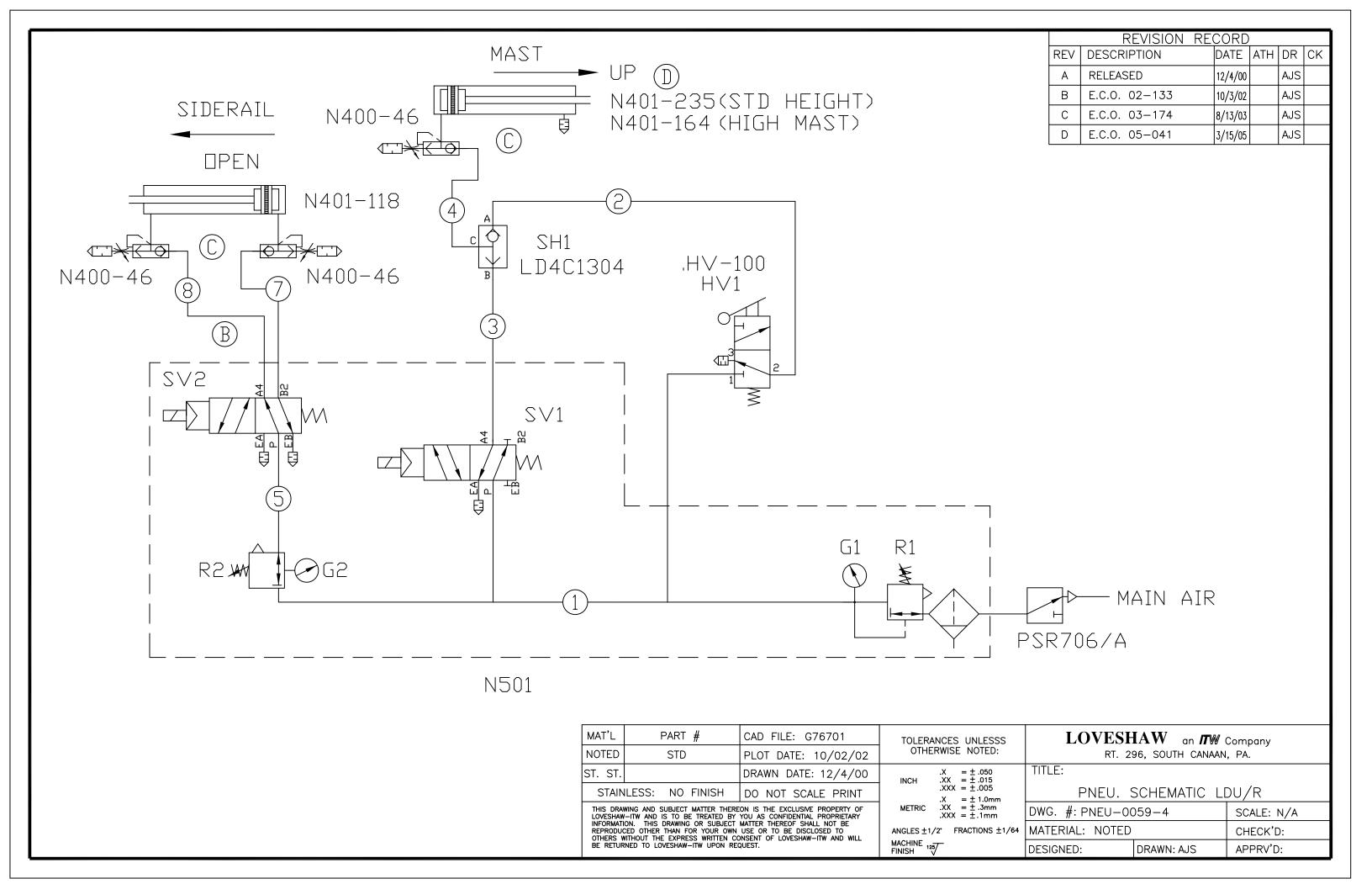


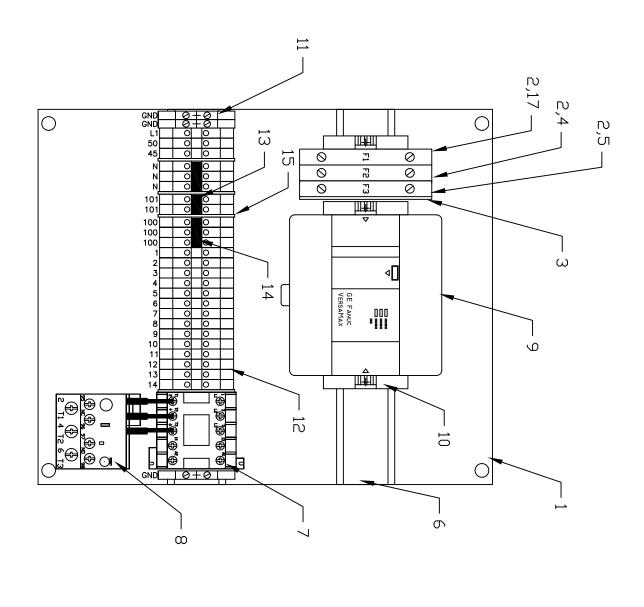












FUSE 10 AMP SLOW BLO	A125SB-10-326	17
TERMINAL MARKER CARD	SS6-MC	16
TERMINAL SEPARATOR	SS6-A1	15
TERM. LINK BAR 3 POLE	SS6-D-3	14
TERM. LINK BAR 2 POLE	SS6-D-2	13
TERMINAL BLOCK	SS6-TB1	12
GROUND TERMINAL	SS6-B	1 1
TERMINAL ANCHOR	SS6-C	10
PLC	A241GE-NANO-1	9
OVERLOAD RELAY	SS3-J	œ
CONTACTOR	SS2-A	7
DIN RAIL	SS6-L-1	6
FUSE 200m AMP, FAST BLO	A125SB-2/10-312	5
FUSE 1/2 AMP SLOW BLO	A125SB-1/2-326	4
FUSE HOLDER BARRIER	SS6-FUSE-EB	3
FUSE HOLDER	SS6-FUSE	2
ELECTRICAL PANEL	A100N-1210P-R	1
PART DESCRIPTION	PART NUMBER	ΑЗУ

ANG. – 1/2°

DESIGNED: WM

DRAWN: MENTA

DATE:08/11/03 APPRVD: --

FRACTIONAL DWG. NO.ED1318 +/- 1/64 MATERIAL: COMMERCIAL

JITLE:

THE LOVESHAW CORPORATION RT 296, SOUTH CANAAN, PA.

ELECTRICAL PANEL ASSEMBLY LDR - PLC - 120/1/60

SCALE: 1 : 2

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REV DE	ESCRIPTION	DATE	ATH	DR	S

