EDUCATOR LAMINATOR

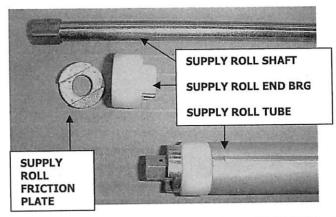
AND 220VOLT ADDENDUM

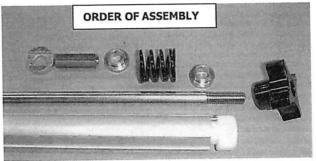
ASSEMBLY PROCEDURES

UPDATED OCTOBER 2014

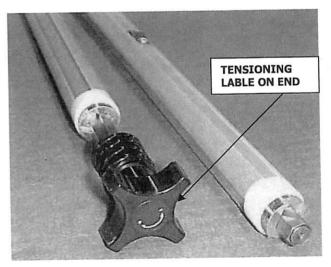
EDUCATOR SUPPLY ROLL ASSEMBLY

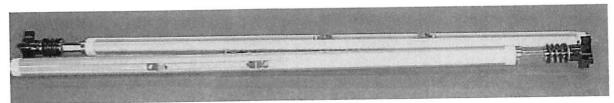
- 1) TWO SUPPLY ROLLS USED ON THE EDUCATOR. ALL PARTS ARE ON SUPPLY ROLL CART LD01. USE THE FOLLOWING PROCEDURES FOR "IN HOUSE" ASSEMBLY.
- 2) TAP (2) SUPPLY ROLL END BEARINGS (LC25 100.4) CONTAINING SET PIN INTO PIN CATCH ON BOTH ENDS OF THE EXTRUDED SUPPLY ROLL TUBE (LC25 002.4A).
- 3) THREAD (4) SUPPLY ROLL DOGS-REV A (0285 015.4A) USING 6-32 X 14 PH 3/1 INTO SUPPLY ROLL TUBE. THE POINTED DOG ENDS FACE INWARD.
- 4) SLIDE SUPPLY ROLL FRICTION PLATE (0285 025.4) ONTO SUPPLY ROLL SHAFT (0500 011.4) TO FIT OVER PINNED HEX AT END OF SHAFT.
- 5) ADD SUPPLY ROLL TUBE WITH BEARING ONTO SHAFT. PLACE ANOTHER SUPPLY ROLL FRICTION PLATE WITH SMOOTH SIDE NEXT TO BEARING.
- 6) PLACE A SUPPLY ROLL HEX BUSHING
 (0285 027.4) ONTO SHAFT, FITTING
 INTO FRICTION PLATE. ADD A SUPPLY
 ROLL SPRING BUSHING (0285 026.4),
 TENSION SPRING (PRS234) AND
 ANOTHER SUPPLY ROLL SPRING
 BUSHING, SO TENSION SPRING IS
 HELD BETWEEN THEM FITTING INTO
 SPRING BUSHING RECESS.
- 7) THREAD A SUPPLY ROLL KNOB (PRK170) ONTO THE END OF THE SUPPLY ROLL SHAFT.
- ADHERE A SUPPLY ROLL TENSIONING LABEL (XS24) INTO RECESS OF KNOB.





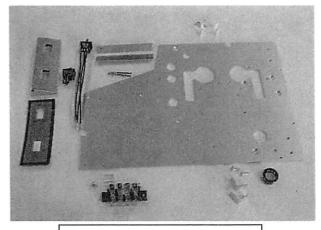




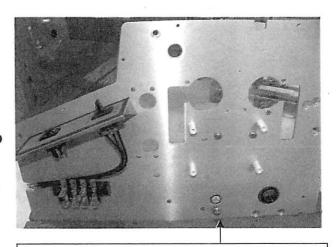


EDUCATOR RIGHT SIDE PANEL ASSEMBLY

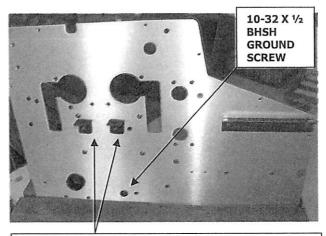
- 1) PLACE RIGHT SIDE PANEL (LC25 090.4R) LD10 IN WOODEN BLOCK. ATTACH SWITCH BRACKET (LC25 122.4) LD09 TO OUTER SIDE PANEL WITH (3) 1/8 DIA FH POP RIVET THROUGH COUNTERSUNK HOLES. SWITCH BRACKET MUST GO ON BEFORE FEED TABLE BRACKETS.
- 2) ON INNER SIDE PANEL ATTACH TOP FEED TABLE BRACKET (LC25 098.4T) LD09 AND BOTTOM FEED TABLE BRACKET (LC25 098.4B) LD09 WITH (2) 1/8 DIA FH POP RIVETS.
- 3) ADD 90 DEGREE TERMINAL (PRT308)
 LD09/AS09 WITH END SCREW ON
 TERMINAL BLOCK (PRT301.5)
 LD09/LD01. ORIENT THE 90 DEGREE
 TERMINAL TOWARD THE FRONT OF
 THE OUTER SIDE PANEL AND SECURE
 WITH (2) 8-32 X 1/4 RH MS.
- 4) ADHERE AN INTERNATIONAL GROUND SYMBOL (LAB06) LD09 ABOVE GROUND SCREW LOCATION ON OUTER PANEL. FROM INNER PANEL TIGHTEN A 10-32 X ½ BHSH WITH A #10 STAR WASHER. ADD #10 STAR WASHER TO OUTER PANEL AND A #10 ACORN NUT.
- 5) INSERT SNAP BUSHING (PRB064) LD09/AS07 FROM OUTER SIDE PANEL.
- 6) THREAD (4) NYLON HEX STANDOFFS (LC25 010.4) LD09 ONTO OUTER SIDE PANEL WITH (4) 4-40 X 3/8 PH MS.
- 7) ATTACH (2) TINNEMAN BRACKETS (PRT319) LD09/LD01 TO INNER RIGHT SIDE PANEL WITH (2) 8 X ½ PH SMS.
- 8) ADHERE SWITCH LABEL (LAB57) LD09 CAREFULLY ALIGNED OVER HOLES.
- 9) SNAP IN DRIVE SWITCH (PRS312) LD09 WITH PRINTING FACING OUTWARD.
- 10) SNAP IN RED LIGHTED ROCKER SWITCH (PRS311) LD09, PRINTING OUTWARD.



RIGHT SIDE PANEL & FIXTURES



OUTER RIGHT SIDE PANEL: GROUND SCREW & LABEL



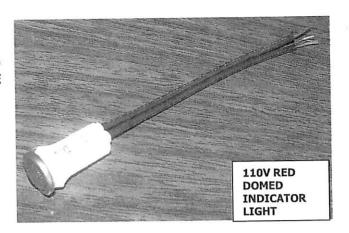
TINNEMAN BRACKETS ON INNER RIGHT SIDE PANEL

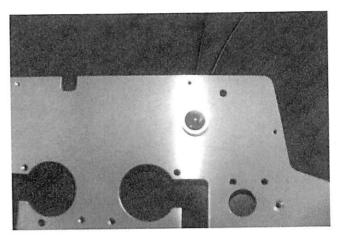
ITEM15-R

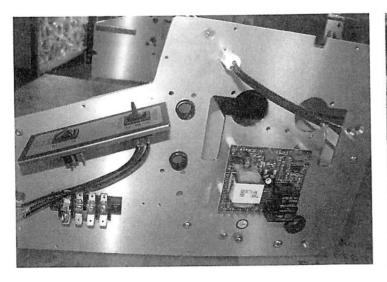
Single Level Current Bill of Material

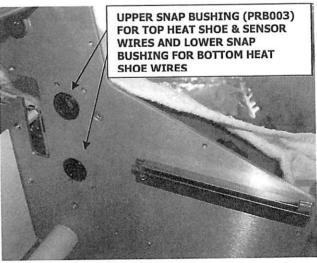
Item/Components		т	-	υ/ Μ	υ	Unit Cost Extended Cost	Effectivity From	То
9025200TU	EDUCATOR LAM. 220V LAMINATOR					0.00000		
0285 015.4A	LD SUPPLY ROLL DOG BENT	М	8.00000	EA	U	0.00000 0.00000		
Revision: 0	SUPPLY ROLL FRICTION PLATE C	м	4.00000	EN	TT	0.00000		
0285 025.4	SUPPLY ROLL FRICTION PLATE C LD SUPPLY ROLL SPRING BUSHING - COMPLETE		4.00000					
0285 026.4	SUPPLY ROLL SPRING BUSHING - COMPLETE SUPPLY ROLL HEX BUSHING	M	2.00000					
0285 027.4	SUPPLY ROLL HEX BUSHING		2.00000	ш.	Ŭ			
Revision: A	LD SUPPLY ROLL SHAFT Assembly	M	2.00000	EΔ	IJ			
LC25 011.5	LD SUPPLY ROLL SHAFT ASSEMBLY	М	2.00000		•			
Revision: A	SUPPLY ROLL EXTRU CUT TO LGTH AND CA	м	2.00000	FΔ	ττ			
LC25 002.4A	SUPPLY ROLL EXTRO COT TO LOTH AND CA	PI	2.00000		•			
Revision: A	LD SUPPLY ROLL END BEARING (REV.B)	м	4.00000	EΔ	r T			
LC25 100.4	ED SUPPLI ROLL END BEARING (REV.B)		4.0000		Ū			
Revision: B	DK57 KNOB LD SUP ROLL	м	2.00000	EΔ	IJ			
PRK170	SUP ROLL TEN SPRG PTD BLACK 9-1604-11		2.00000					
PRS234	RIGHT SIDE PANEL DWG #LC25 090.4R REV. G		1.00000					
LC25 090.4R	RIGHT SIDE FAMEL DWG #LC25 050.4K KDV. G	••	2.0000		•			
Revision: G	EDUCATOR SIDE PANEL (MOLON-MEKO) REV.B	м	1.00000	FA	11		10/21/97	
LC25 090.4LA	EDUCATOR SIDE PANEL (POLON-PERO) REV.S		2.0000		•		,,	
Revision: B	CHANDORE MULON E/Ow1/AURY A-AOTURRAD	м	4.00000	RA (IJ			
LC25 010.4	STANDOFF-NYLON, 5/8x1/4HEX, 4-40THREAD	м	2.00000					
PRF110	FUSE HOLDER (LITTELFUSE H3453LS1)	м	1.00000					
PRT301.5	ED TERM BLK 110V SUBASSY	м	1.00000					
PRB064	SNAP BSHG LG .875HOLE/.125T/.625ID	м	1.00000					
LAB57	SWITCH LABEL LC LAM	м	1.00000					
LAB06	INTERNATIONAL GROUND SYMBOL LABEL EDUCATOR THREADING DIAGRAM LABEL	м	1.00000					
LAB115		м	2.00000					
LAB144	LIFT HERE LABEL 25B19 SPROCKET W/1/2"BORE & SET SCREW	M	1.0000				10/21/97	
PRS251	ROCKER SWITCH, RED LIGHTED	M	1.0000				,,	
PRS311	CARLING LC SWITCH DRIVE 611112-73-0-ON		1.0000					
PRS312	MOLON GEAR MOTOR - EM5H-15-4 - 110 VOLT		1.0000					
PRM229A	CAPACITOR - 5uf - FOR PRM229A, 2MDV4	м	1.0000					
PRM229B	ISOLATION TRANSFORMER N77U P4	м	1.0000					
PRT321A	CAPACITOR BRACKET FOR DAYTON MOTOR 2MEV		1.0000				10/21/97	
PRM216B	EDUCATOR PACKAGING CHECKOFF LABEL	м	1.0000				03/26/99	
LAB555 Lc25 060.4	25" LIGHT DUTY HEATSHOE - See Note/P4	м	2.0000					
Revision: A	25 DIGHT BOTT HERIONOL COS NOCO, 1	••						
	EDUCATOR BOTTOM MTR CVR - 220V VERSION	м	1.0000	0 EA	U			
LC25 093.4D	CORD RECEPTACLE, PANEL MOUNT	M	1.0000					
prc117	FAN CORD SET 4YD80	М	1.0000					
prf116	AXIAL FAN FOR EDUCATOR 120V	М	1.0000			•		
prf133 prh147	25" 120V UL HTR 650W UL/CSA LISTED.	М	2.0000					
PRC090	CHROME PLUG BUTTON, (100/pack)	М	1.0000					
LC25 008.4	25" IDLER TUBE	м	1.0000					
LC25 000.4	LD IDLER BEARING	м	2.0000				*	
LC25 009.4 LC25 011.4	25" STABILIZER BAR	М	2.0000					
LC25 122.4	SWITCH BRACKET	м	1.0000					
	TOP FEED TABLE BRACKET	M	2.0000					
LC25 098.4T	101 FEBO INDEE DIGICALI				_	•		

- 11) SNAP IN THE 110V DOMED RED INDICATOR LIGHT (PRL194A) LD01 FROM THE INNER RIGHT SIDE PANEL, SO THE WIRES WILL BE ON THE OUTER SIDE PANEL.
- 12) FROM INNER SIDE PANEL, INSERT (2)
 SNAP BUSHINGS (PRB003) RACK 8
 LOCATED ABOVE EACH OTHER, TO
 PROTECT TOP HEATER & SENSOR WIRES
 AND BOTTOM HEATER WIRES.



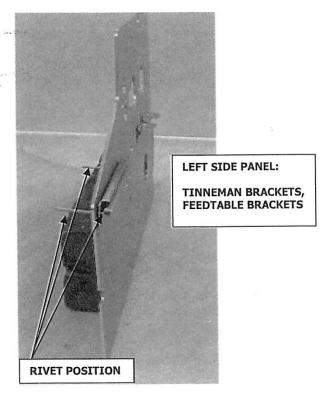


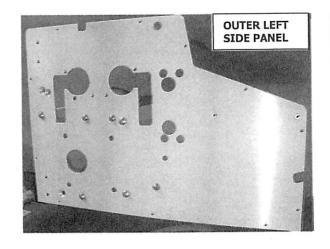


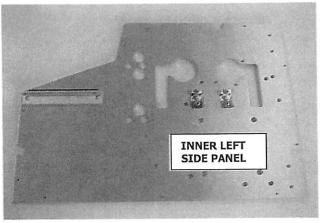


EDUCATOR LEFT SIDE PANEL ASSEMBLY 9/2011

- 1) PLACE LEFT SIDE PANEL (LC25 090.4LA)
 LD03 IN WOODEN BLOCK. ALIGN HOLES
 ON TOP FEED TABLE BRACKET (LC25
 098.4T) LD01 AND BOTTOM FEED TABLE
 BRACKET (LC25 098.4B) LD01 CREATING A
 CHANNEL FOR FEED TABLE TO SLIDE IN.
 SECURE BRACKETS TO INNER SIDE PANEL
 WITH (2) 1/8 DIA FH POP RIVETS.
- 2) ATTACH (2) TINNEMAN BRACKETS (PRT319) LD01 TO INNER SIDE PANEL WITH (2) 8 X ½ PH SMS FROM OUTSIDE. SEE PHOTOS.

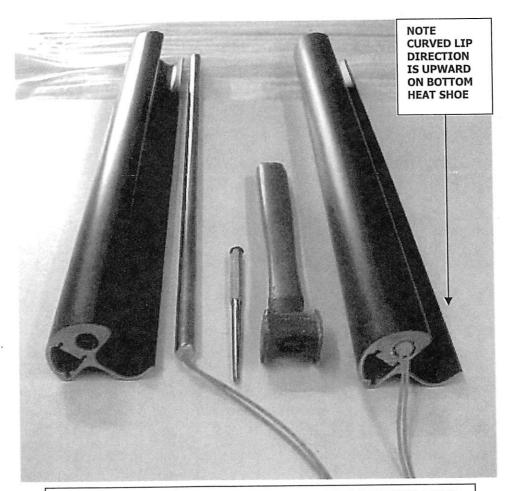






EDUCATOR BOTTOM HEAT SHOE ASSEMBLY

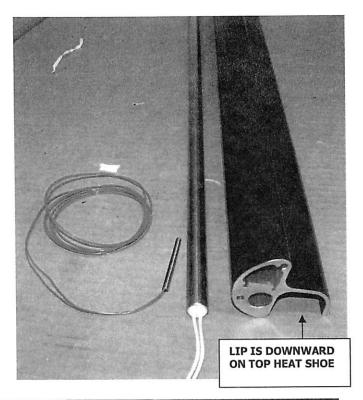
- 1) PLACE 25" LIGHT DUTY HEAT SHOE (LC25 060.4) LD00 ON CUSHIONED SURFACE, ORIENTED TO PHOTO.
- 2) INSERT HEATER (PRH147) LD00 AND STAKE BOTH ENDS TO SECURE.
- STAGE AT FRAMING AREA.

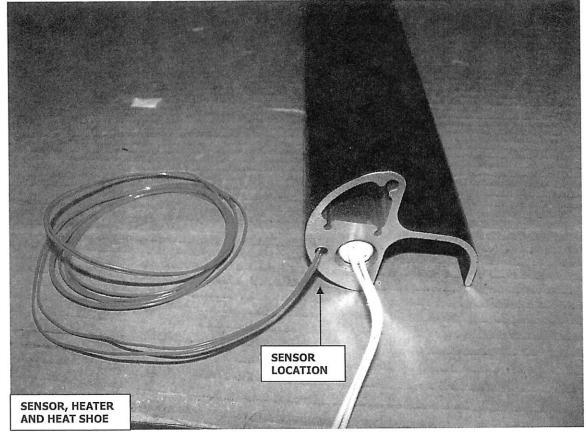


HEAT SHOE, HEATER, STAKE & HAMMER: ASSEMBLED BOTTOM HEAT SHOE

EDUCATOR 110V TOP HEAT SHOE ASSEMBLY 2011 WITH RED SENSOR WIRE

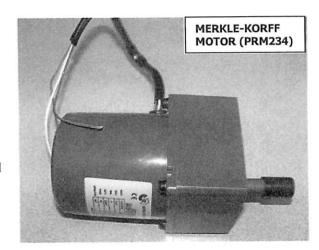
- 1) PLACE 25" LIGHT DUTY HEAT SHOE (LC25 060.4) LD00 ON CUSHIONED SURFACE ORIENTED WITH LIP DOWNWARD TO THE RIGHT.
- 2) INSERT HEATER (PRH147) LD00 FROM END WITH SENSOR HOLE.
- 3) OPEN SENSOR HOLE, IF
 NECESSARY, WITH #11 DRILL, BE
 CAREFUL NOT TO DAMAGE
 INTEGRITY OF CAVITY.
- 4) INSERT SENSOR (PRC2121) LD00
 WHICH HAS RED WIRES. CUT THE
 WIRES TO TWICE THE LENGTH OF
 THE HEATER WIRES. CLIP
 TERMINALS OFF TO RECYCLE.
- 5) STAKE SENSOR AND BOTH ENDS OF HEATER WITH TOOLS PICTURED.

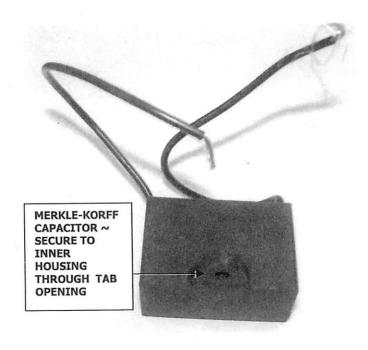




EDUCATOR 110V CAPACITOR FOR PRM234 MERKLE-KORFF

- 1) THE EDUCATOR CAPACITOR IS INCLUDED WITH THE MERKLE-KORFF MOTOR (PRM234) LD12.
- OPEN MOTOR BOX AND REMOVE THE CAPACITOR.
- THE CAPACITOR WILL BE SECURED TO THE INNER BACK, BOTTOM MOTOR COVER USING AN 8-32 X 3/4 PH MS WITH AN 8-32 KEPS HEX NUT ON THE INNER COVER.
- 4) THE MOTOR WILL BE SECURED TO THE INNER LEFT SIDE PANEL.



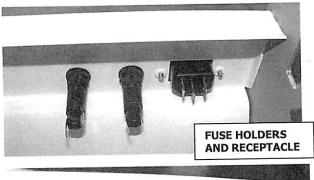


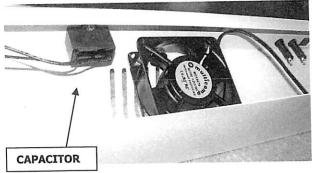
EDUCATOR BOTTOM MOTOR COVER 110V 12/14

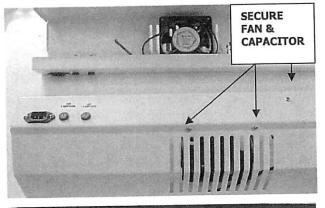
- 1) PLACE BOTTOM MOTOR COVER (LC25 093.4C) LD09 ON WORKTABLE, FACE RECEPTACLE OPENING UP, ON LEFT.
- 2) INSERT RECEPTACLE PANEL MOUNT (PRC117) AS08 WITH SINGLE GROUND TERMINAL POST FACING DOWNWARD. SECURE WITH (2) 6-32 X 5/8 TRMS INTO THREADED PEM NUTS.
- 3) INSERT (2) FUSE HOLDERS (PRF110)
 LD11 WITH TERMINAL POST FACING
 INWARD ON BOTTOM MOTOR COVER.
 BEND POSTS IN LINE WITH HOLDER.
 THREAD NUT ON FUSE HOLDER WITH
 FLAT SIDE OF NUT BY MOTOR COVER.
- 4) FROM LD11/AS07 INSERT A 3 AMP
 LITTLEFUSE (PRF127) INTO CARRIER.
 PUT CARRIER IN FUSE HOLDER, BY
 RECEPTACLE MOUNT. INSERT 1 ½

 AMP LITTLEFUSE (PRF128) INTO
 CARRIER AND INSERT FUSE HOLDER
 BY LOUVERS. SECURE CARRIERS WITH
 SLOTTED SCREWDRIVER, GENTLY
 INWARD AND QUARTER TURN RIGHT.
- 5) ADHERE "USE 3 AMP FUSE ONLY"
 LABEL (LAB09) LDB2 ABOVE 3 AMP
 FUSE AND "USE 1.5 AMP FUSE ONLY"
 (LAB07) LDB2 ABOVE 1 ½ AMP FUSE.
- 6) TERMINATE THE FAN CORD (PRF116)
 LD03 ON THE AXIAL FAN (PRF133)
 LD01. ORIENT FAN WITH AIRFLOW
 ARROW INWARD AND FAN CORD
 FACING FUSES. SECURE FAN OVER
 LOUVERS ALONG BACK OF MACHINE.
 USE (2) 10 X ½ PH SMS.
- 7) FOR 110V ED USE CAPACITOR WITH MOTOR (PRM234). FOR 220V USE (PRM229B) LD02. SECURE EITHER CAPACITOR WITH BRACKET UPWARD, ALONG INSIDE OF MOTOR COVER. USE A 10-32 X 3/8 RH MS ON OUTSIDE AND #10 KEPS NUT ON INSIDE. TIGHTEN WITH WRENCH.
- 8) ADHERE A MADE IN AMERICA LABEL (LAB06) LDB2 ABOVE RECEPTACLE.





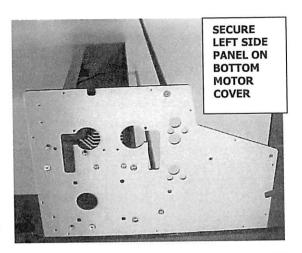


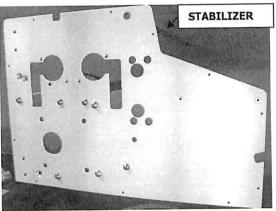


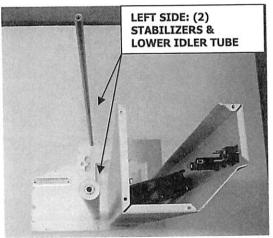


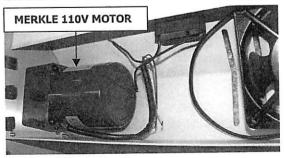
EDUCATOR CHASSIS ASSEMBLY 2014

- 1) SECURE LEFT SIDE PANEL ASSEMBLY TO LEFT SIDE OF BOTTOM MOTOR COVER ASSEMBLY (OPPOSITE FUSE SIDE). USE (4) 10 X ½ PH SMS IN ALIGNED HOLES, INCLUDING (2) COUNTERSUNK HOLES.
- 2) SECURE (2) STABILIZERS (LC25 011.4A) LD12. USE A 10-32 X 3/8 FH MS ON THE TOP STABILIZER AND A 10-32 X 3/8 RH MS ON THE BOTTOM STABILIZER.
- 3) FROM LD12 PRESS (2) NYLON IDLER
 BEARINGS (LC25 009.4) INTO ENDS OF A
 25" IDLER TUBE (LC25 008.4). SLIDE
 IDLER TUBE OVER BOTTOM STABILIZER.
 IDLER TUBE MUST SPIN EASILY. REAM
 NYLON IDLER BEARINGS IF NECESSARY.
- 4) ATTACH THE RIGHT SIDE PANEL ASSEMBLY TO THE RIGHT SIDE OF THE BOTTOM MOTOR COVER WITH (4) 10 X 1/2 PH SMS IN ALIGNED HOLES, INCLUDING (2) COUNTERSUNK HOLES.
- 5) PLACE FRAME ON TABLE WITH FRONT FACING YOU. INSTERT MERKLE-KORFF MOLON MOTOR (PRM234) LD12 FOR 110V OR MOLON MOTOR (PRM229A) AS23 FOR 220V THROUGH LEFT SIDE PANEL. SECURE MOTOR WITH (4) 10-32 x ½ BHSH AND (1) OUTER, TOP REAR #10 STAR WASHER.
- 6) ON LEFT SIDE PANEL SLIDE (2) LONGER, LEFT HEAT SHOE SPACERS (LC25 231.4) LD12 INTO BOTTOM SPACER HOLES. INSERT (2) 8 X 1 1/4 HEX WASHERHEAD TEK SCREWS EACH WITH A #8 FLAT WASHER THROUGH SPACERS.
- 7) ON RIGHT SIDE USE (2) SHORTER, RIGHT HEAT SHOE SPACERS (LC25
 232.4) LD12 ON <u>INSIDE</u> OF PANEL HELD WITH (2) 8 X 1 ¹/₄ HEX WASHERHEAD TEK SCREWS AND (2) #8 FLAT WASHER.
- 8) HOLD BOTTOM HEAT SHOE IN LEFT HAND. EXIT HEATER WIRES THROUGH RIGHT PANEL, LOWER FRONT OPENING.

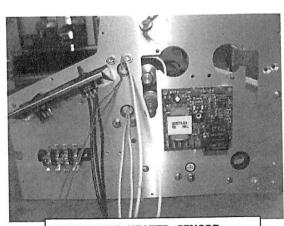




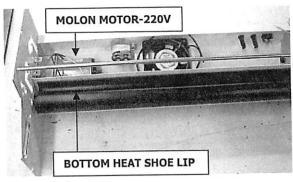


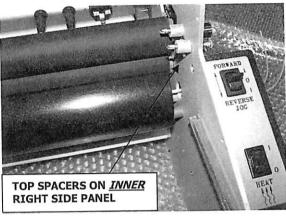


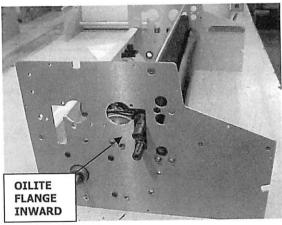
- 9) ON RIGHT CAREFULLY START TEK SCREWS INTO HEAT SHOE SCREW CAVITY BY HAND, HOLD HEAT SHOE LEVEL. USE PNEUMATIC DRIVER TO TIGHTEN SCREWS 3/4 WAY IN. CHANGE HANDS HOLDING HEAT SHOE AND START LEFT SIDE TEK SCREWS BY HAND. TIGHTEN WITH PNEUMATIC DRIVER. FINISH TIGHTENING RIGHT SIDE.
- 10) CLEAN (2) 25" LIGHT DUTY RUBBER ROLLS (0500-040.4) RUBBER ROLL BOX WITH DAMP CLOTH. PLACE OILITE BEARINGS (PRB048) AS08 OVER SHAFTS OF ONE RUBBER ROLL, FLANGE INWARD. INSERT JOURNALS BETWEEN FRONT SIDE PANEL CHANNEL, FLANGE INWARD, SNAP RING GROOVE ON MOTOR SIDE. ROLL FITS IN BOTTOM HEAT SHOE LIP. INSERT TOP, FRONT ROLL WITHOUT BEARINGS, SNAP RING GROOVE ON MOTOR SIDE, OVER FIRST RUBBER ROLL.
- 11) PREPARE THE SAME SPACERS, SCREWS
 AND WASHERS FOR TOP HEAT SHOE. EXIT
 TOP HEATER AND SENSOR WIRES
 THROUGH UPPER HOLE ON RIGHT SIDE.
 SECURE BOTTOM HEAT SHOE WITH
 PNEUMATIC DRIVER.
- 12) ON OUTER RIGHT SIDE PANEL SECURE A TRAKSTAT HEAT CONTROL (PRC212) LD03 TO STANDOFFS WITH TERMINAL POSTS DOWNWARD. USE (4) 4-40 X 1/4 FH.

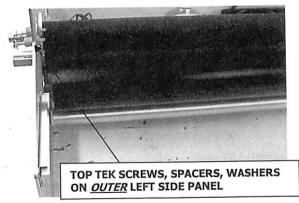


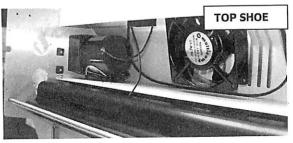
RIGHT SIDE: HEATER, SENSOR WIRES & TRAKSTAT HEAT CONTROL







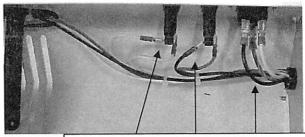




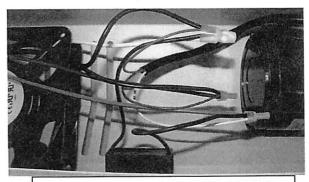
EDUCATOR WIRING 110 VOLT

MERKLE-KORFF MOTOR 9/2014

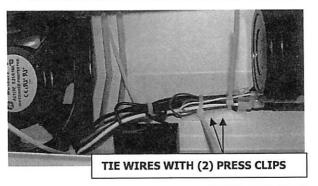
- 1) WITH REAR OF CHASSIS FACING YOU ON A WORK CART, FOLLOW WIRING DIAGRAM FOR 110 VOLT EDUCATOR. PHOTOS ILLUSTRATE EDUCATOR 110V WIRING WITH HARNESS (PRW342) LD04.
- 2) USE 14 GAURE WIRES ON RECEPTACLE: WHITE WIRE BY SIDE PANEL AND BLACK WIRE INWARD, GREEN GROUND WIRE ON LOWER POST.
- 3) WIRE 1.5 AMP FUSE WITH SMALLER FEMALE ENDS ON YELLOW WIRES. WIRE 3 AMP FUSE WITH SMALLER FEMALE END ON BLUE WIRE AND WITH THE LONGER BLACK WIRE WITH AN OPEN END.
- 4) TRIM AND DISCARD EXCESS FAN WIRE LEAVING 15" ON FAN. SPLIT FAN WIRE END APPROXIMATELY 4". STRIP ENDS TO CLOSE CAP WITH OTHER WIRES.
- 5) TWIST (3) WIRES TOGETHER AND CLOSE CAP (PRT289) MOTOR RED WIRE, OPEN ENDED LONG BLACK WIRE (JUMPER ON OTHER END) AND ONE FAN LEAD.
- 6) USE LARGER CLOSE CAP (PRT290) AND TWIST ENDS FROM MOTOR BLUE WIRE, LONG OPEN ENDED WHITE WIRE, REMAINING FAN LEAD AND ONE OF THE CAPACITOR LEADS. FOUR WIRES ARE INCLUDED IN THIS CLOSE CAP.
- 7) TWIST AND CLOSE CAP (PRT289) THE MOTOR WHITE WIRE, LONG RED WIRE, AND REMAINING CAPACITOR WIRE.
- 8) TIE FAN, CAPACATOR, MOTOR WIRES. EXIT BOTTOM MOTOR COVER WIRES THROUGH SNAP BUSHING.
- 9) TURN EDUCATOR ON CART SO WIRES FACE YOU AND SECURE GROUND WIRE WITH A #10 STAR WASHER AND ACORN NUT.

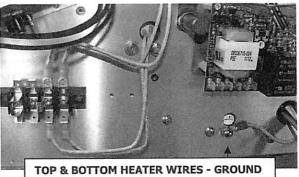


1.5 AMP FUSE, 3 AMP FUSE ~ RECEPTACLE

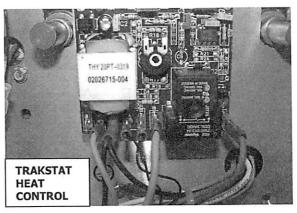


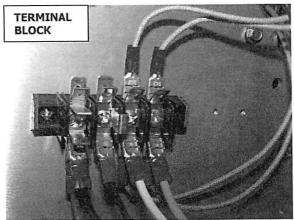
FAN, MERKLE-KORFF CAPACATOR & MOTOR

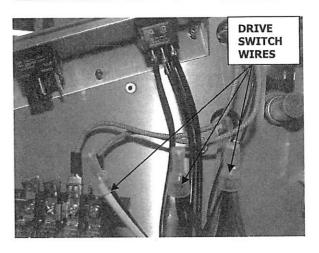


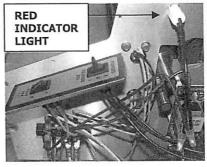


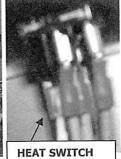
- SECURE GROUND WIRE WITH A #10 9) STAR WASHER BETWEEN PANEL AND RING CONNECTOR. USE AN ACORN NUT.
- WIRE TRAKSTAT HEAT CONTROL: RED 14 10) GAUGE ON T7, ORANGE 14 GAUGE ON T6, TRIMMED SENSOR WIRES WITH (PRT302) ON T14 AND T15, DOUBLED BLACK WIRE WITH FIF BLUE FEMALE ON T3 AND ORANGE 18 GAUGE ON T2.
- MEASURE TOP HEATER WIRES TO TOP 11) REAR 180 DEGREE TERMINALS AND **BOTTOM HEATER WIRES TO BOTTOM REAR 180 TERMINALS. CRIMP BLUE** (PRT292) FEMALES ON HEATER WIRES AND SECURE TO TERMINAL POSTS.
- **SECURE THE RED WIRES FROM T7 TO** 12) **LOWER FRONT 180 DEGREE POST. ON** THE LOWER 45 DEGREE POSTS SECURE THE ORANGE FROM T6 TO REAR, WHITE FROM RECEPTACLE BY ORANGE, BLACK FROM DOUBLED WIRE ON T3, AND BLACK FROM RECEPTACLE ON FRONT.
- **USE SMALL CLEAR CAP TO UNITE THE** 13) FORWARD/REVERSE SWITCH WIRES WITH OPEN ENDED WIRES THROUGH SNAP BUSHING: RIGHT/REAR WITH RED FROM CAPACITOR, MIDDLE WITH BLACK FROM FUSE AND LEFT/FRONT WITH WHITE FROM CAPACITOR.
- 14) **USE SMALL CLEAR CAP TO UNITE RED** INDICATOR LIGHT WITH OPEN ENED BLACK HARNESS BAG WIRES. THE FEMALE ENDS OF THE BLACK WIRES CONNECT TO TERMINAL BLOCK ON FRONT UPPER 90 DEGREE POST AND **UPPER 45 DEGREE ON SECOND SCREW.**
- 15) WIRE HEAT SWITCH WITH YELLOW ON FRONT INNER POST, ORANGE ON REAR INNER POST, SHORT GRAY ON FRONT **OUTER POST AND SHORT BROWN ON** REAR OUTER POST.
- WIRE BLUE FROM FUSE TO UPPER FRONT 16) 45 DEGREE POST AND YELLOW FROM **FUSE TO UPPER FRONT 180 DEGREE.**



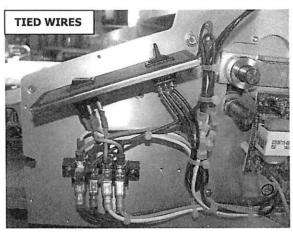


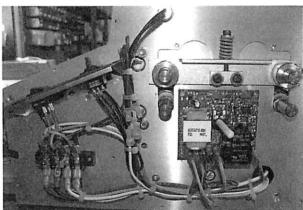


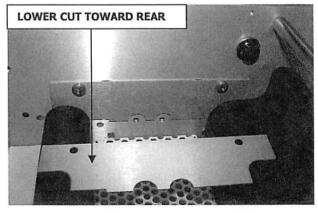


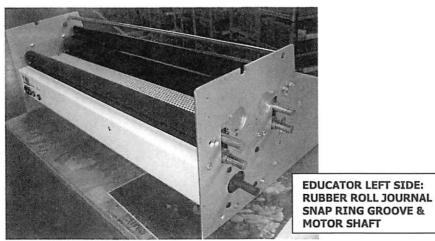


- 18) PLUG IN AND TEST MACHINE FOR MOTOR SHAFT DIRECTION AND HEAT LIGHT FUNCTION. STOP WHEN FLAT OF MOTOR SHAFT IS <u>VERTICAL TO REAR</u>.
- 19) WIPE A RUBBER ROLL WITH DAMP CLOTH AND ADD A BEARINGS (PRB048)
 LD11/AS08 ON EACH JOURNAL WITH FLANGE INWARD AND SNAP RING GROOVE ON MOTOR SIDE. INSERT RUBBER ROLL IN REAR SIDE PANEL OPENING, BEARINGS INWARD. CLEAN A SECOND RUBBER ROLL AND PLACE OVER FIRST ROLL WITHOUT BEARINGS.
- 20) POSITION TOP MOTOR COVER (LC25 092.4) LD04 OVER TINNERMAN BRACKETS. DO NOT SCRATCH RUBBER ROLLS. SLIDE COVER TOWARD REAR AND SECURE WITH (4) 8 X 3/8 RH SMS.
- 21) ADD (2) SAFETY PLATES (LC25 034.4)
 LD13 ON BOTH SIDES OF TOP MOTOR
 COVER WITH NOTCH DOWNWARD AND
 BOTTOM HIGHER CUT OF SAFETY PLATE
 TOWARD REAR OF MACHINE. USE (4) 1032 X 1/4 PANHEAD SCREWS.



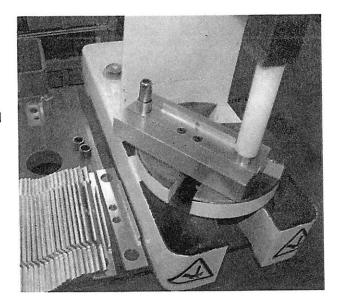


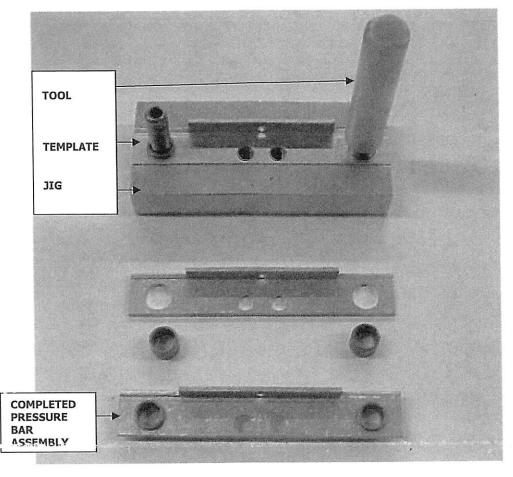




EDUCATOR PRESSURE BAR ASSEMBLY

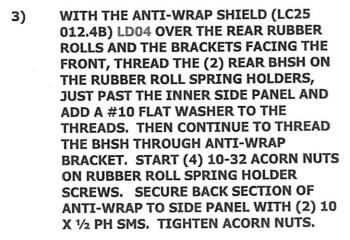
- 1) THE EDUCATOR USES (2) PRESSURE BARS (LC25 033.4) LD13. ONE FOR THE RIGHT SIDE AND ONE FOR THE LEFT SIDE.
- 2) ARBOR PRESS (2) OILITE BEARINGS (PRB043) AS08 INTO END OPENINGS ON BOTH PRESSURE BARS FROM BREAK SIDE. USE JIG, TEMPLATE AND TOOLS TO MEASURE DEPTH.

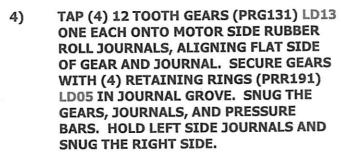




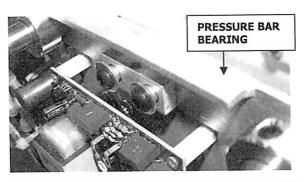
EDUCATOR 110V GEARING 2014

- 1) SET THE BACK OF EDUCATOR TOWARD YOU AND <u>JIGGLE</u>THE PRESSURE BAR BEARINGS OVER THE TOP RUBBER ROLL JOURNALS, WITH THREADED BREAK UPWARD. SNUG TIGHT ON SIDE PANEL.
- 2) PLACE A #10 FLAT WASHER ON EACH OF (4) 10-32 X 1 BHSH. ADD A SPRING HOLDER SPACER (PRS202) LD05 ONTO EACH. INSERT THE (2) BUTTONHEAD UNITS EACH INTO (2) RUBBER ROLL SPRING HOLDERS (LC25 032.4) LD05. THREAD SPRING HOLDER SCREWS THROUGH PRESSURE BARS FLUSH TO INNER SIDE PANELS. TIGHTEN FRONT SPRING HOLDER BHSH ONLY.

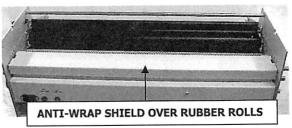


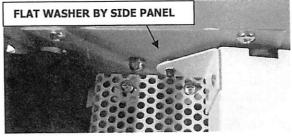


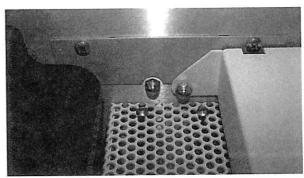
- 5) ON RIGHT OR CONTROL SIDE <u>TOP</u>
 <u>JOURNALS ONLY</u>TIGHTEN (2) ½ SHAFT
 COLLARS (PRC096) AS07/LD05 FLUSH
 WITH PRESSURE BAR, ONE PER
 JOURNAL.
- 6) TAKE (2) 10-32 X 1 3/4 SHCS, PUT A #10 FLAT WASHER, AN ORANGE HEFTY SPRING (LC25 031.4) LD05 AND

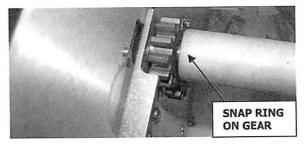






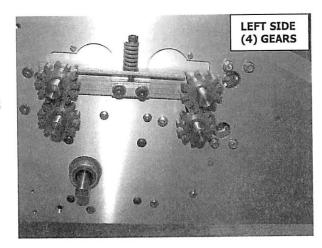


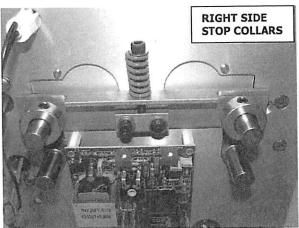


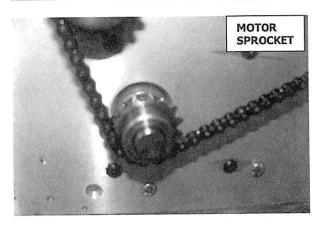


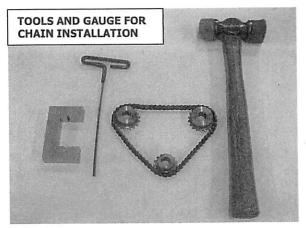
ANOTHER #10 FLAT WASHER ON EACH.
ADD A DROP OF LOCTITE TO THE END
THREADS AND SNUG DOWN THROUGH
PRESSURE BAR INTO RUBBER ROLL
SPRING HOLDER AFTER SPRING IS
TOUCHING BOTH WASHERS, TIGHTEN 13
HALF TURNS ON LEFT/GEAR SIDE AND
10 HALF TURNS ON RIGHT/CONTROL
SIDE.

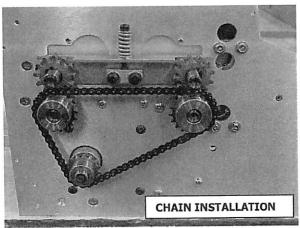
- TURN MACHINE SO GEARS ARE FACING 7) YOU. ALIGN FLAT SIDE OF LOWER JOURNALS OUTWARD. SEAT ENDLESS CHAIN (PRCO83.A) LD13 ON A 25B19 SPROCKET (PRS251) LD13, WITH ALL HUBS OUTWARD. SLIDE SPROCKET OVER RIGHT/FRONT LOWER RUBBER ROLL JOURNAL AND ALIGN SET SCREW WITH FLAT OF SHAFT, DON'T TIGHTEN YET. SEAT CHAIN ON 25B15 SPROCKET (PRS2455) LD13 AND SLIDE ON MOTOR JOURNAL, ALIGNING SET SCREW WITH FLAT OF JOURNAL. SEAT CHAIN ON A 25B18 SPROCKET (PRS249) LD13 AND TAP ONTO BOTTOM BACK RUBBER ROLL JOURNAL ALIGNED WITH FLAT SIDE.
- 8) USE GAUGE ON ALL SPROCKET TEETH
 AND TIGHTEN SET SCREWS ON FLAT OF
 JOURNALS. TIGHTEN MOTOR SET
 SCREW LAST. RETIGHTEN SCREWS
 HOLDING MOTOR TO SIDE PANEL.





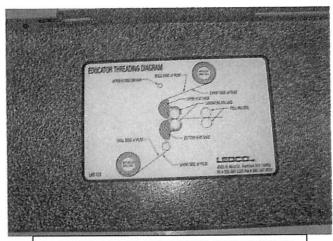




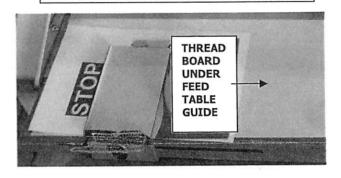


EDUCATOR FEED TABLE ASSEMBLY

- 1) FEED TABLE PARTS, JIGS AND FASTENERS ARE IN LDOO. PLACE FEED TABLE (0500 096.4) OVER JIG WITH BREAK DOWNWARD. TAP IN (2) DRIVE SCREWS (2X1/4). HOLD DRIVE SCREWS WITH NEEDLE NOSE PLIERS WHILE YOU TAP INTO FEED TABLE HOLES.
- 2) PEEL BACK PLASTIC ON LEFT FEED TABLE GUIDE (0285 097.4L) AND ATTACH TO FEED TABLE TROUGH FRONT LEFT CHANNEL WITH FEED TABLE GUIDE STABILIZER (0285 097.4S) OUTWARD AND FEED TABLE KNOB NUT (0285 099.4) ON INSIDE. SECURE KNOB NUT WITH A ½" SPI KNOB (PRK177) AS08 AND #10 FLAT WASHER THROUGH CHANNEL.
- 3) FROM LD07 SLIDE WARRANTY CARD (XS60) AND DIRECTIONS UNDER FEED TABLE GUIDE. ADD THREAD BOARD (XS100) LD00.
- 4) CENTER AND ADHERE TO FEED TABLE UNDERSIDE EDUCATOR THREADING LABEL (LAB115) LD09.



ADHERE LABEL TO UNDERSIDE OF FEED TABLE

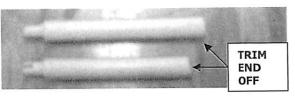


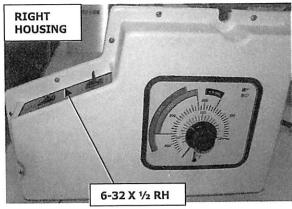


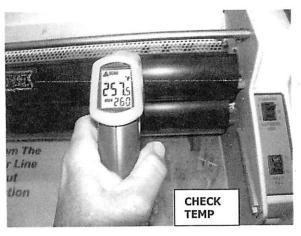
EDUCATOR 110V TESTING 9/2011

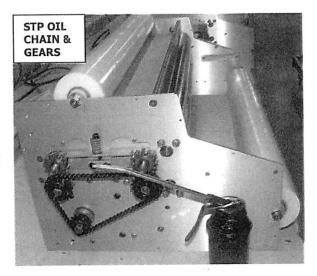
1) TRIM OFF THE LINED END ON A POTENTIOMETER STEM (PRC213) LD05 AND INSERT STEM INTO TRAKSTAT.

- 2) ADHERE AN EDUCATOR TEMPERATURE DECAL (LAB55B) LD05 CENTERED OVER POTENTIOMETER EXTENSION OPENING AND SLIDE RIGHT HOUSING (LC25 094.4R) LD06 ONTO SIDE PANEL. SECURE HOUSING WITH (10) 6-32 X 3/16 PH AND (1) 6-32 X ½ RH LOCATED IN SAFETY SHIELD POSITION.
- 3) ROTATE POTENTIOMETER EXTENSION TO FULL LEFT AND ADD CONTROL KNOB (PRC213) LD05 ALIGNING INDICATOR MARK ON KNOB WITH LOWEST SETTING ON DECAL. SECURE STEM WITH AN 8-32 X 3/8 SET SCREW.
- SET TEMPERATURE TO 260F DEGREE.
- 5) PLUG EDUCATOR POWER CORD INTO 110
 VOLT OUTLET. TURN ON LAMINATOR,
 RED INDICATOR LIGHT COMES ON AND
 FAN SHOULD TURN. CHECK CHAIN
 DIRECTION AND FUNCTION OF HEAT
 SWITCH AND LIGHT.
- 6) AS CHAIN TURNS ADD A <u>LIGHT</u> COATING OF STP OIL TO CHAIN AND GEARS.
- 7) FILL OUT PAPERWORK: "FINAL TEST & INSPECTION CHECKLIST," CUSTOMER "TEST LAMINATE" AND JOB SHEET WITH ASSEMBLER'S NUMBER AND DATE. HEAT LIGHT GOES OFF WHEN SET TEMP OF 260F IS REACHED. CHECK SHOE TEMP ENDS AND CENTER WITH PYROMETER.
- 8) LOAD FILM ONTO SUPPLY ROLLS. THE SHINY SIDE OF THE FILM GOES NEXT TO HEAT SHOE. THE SUPPLY ROLL KNOBS ARE ON RIGHT SIDE. USE A FEED BOARD TO THREAD FILMS THROUGH MACHINE. WATCH FILM AS IT EXITS, THE FAN CAN BLOW IT BACK TO A WRAP-AROUND.
- TURN OFF EDUCATOR, WAIT ABOUT 15 SECONDS, RESTART. STOP AGAIN, CUT



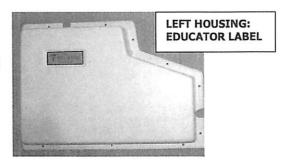


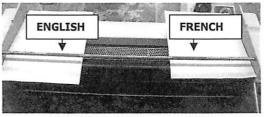


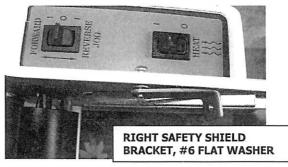


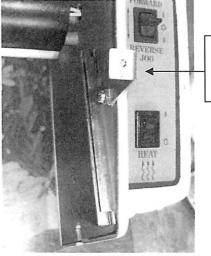
FILM AND CHECK DWELL LINE FOR EVENNESS AND ADHESION. IF DWELL EDGES ARE UNEVEN, TIGHTEN SPRING TENSION TO MATCH SIDE MOST SIMILAR TO CENTER OF DWELL LINE.

- 10) LAMINATE CUSTOMER'S TEST MATERIAL. CHECK FLATNESS AND EDGE SEAL. TRIM LAMINATES, LEAVING ABOUT 1/8 EDGE.
- 11) TURN OFF HEAT AND UNLOAD FILM.
 ALLOW HEAT SHOES TO COOL WHILE
 RUNNING WITH FAN ON.
- 12) ADHERE EDUCATOR LABEL (LAB56) LD05
 ON THE DEPRESSED SECTION OF THE
 OUTER LEFT HOUSING (0285 094.4L)
 LD06. SECURE HOUSING TO SIDE PANEL
 USING (10) 6-32 X 3/16 PH AND (1) 6-32
 X ½ RH POSITIONED TO HOLD SAFETY
 SHIELD.
- 13) MEASURE AND ADHERE (2) RED
 "CAUTION" LABELS (LAB62 AND LAB62F)
 LD05 ONTO STABILIZER BAR ABOVE
 HEAT SHOES, FRENCH LABEL ON RIGHT.
- 14) PLACE A #6 FLAT WASHER ON EACH OF THE (2) 6-32 X ½ RH THREADS HOLDING HOUSING ON, FLUSH TO INNER SIDE PANEL. PLACE RIGHT SAFETY SHIELD BRACKET (0285 190.4R) LD06 ON THREADS. THE LONGER SIDE OF THE BRACKET IS UPWARD. ADD A DROP OF LOCTITE INTO (2) #6-32 ACORN NUTS. SECURE RIGHT SAFETY SHIELD BRACKET WHIL HOLDING IT UPRIGHT. USE A NUT DRIVER TO TIGHTEN ACORN NUT.
- 15) REPEAT THIS PROCEDURE ON LEFT SIDE WITH A LEFT SAFETY SHIELD BRACKET (0285 190.4L) LD06.
- 16) PEEL BACK COVERING ON THE DEEPER SET HOLES OF A 25" SAFETY SHIELD (4500 074.4) LD06. SECURE SAFETY SHIELD TO SAFETY SHIELD BRACKET WITH (2) 6-32 X 1/4 PH.
- 17) PEEL DOWN PLASTIC COVERING FROM SAFETY SHIELD. CENTER AND ADHERE AN INTERNATIONAL SYMBOL FOR "HOT" (LABO3) LD05, REPLACE PLASTIC.

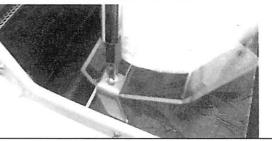








RIGHT SAFETY SHIELD BRACKET

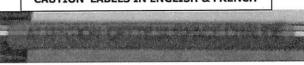


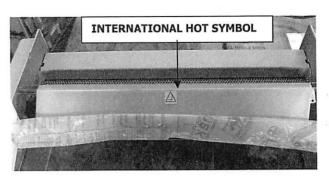
LEFT SAFETY SHIELD BRACKET & SAFETY SHIELD

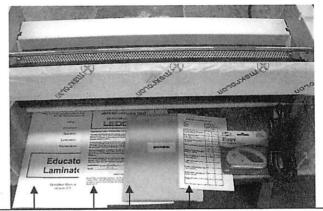
- 18) INSERT FEED TABLE ASSEMBLY BETWEEN FEED TABLE BRACKETS.
- 19) PLACE (2) SUPPLY ROLLS (LC25 002.5)
 LD06 IN SIDE PANEL NOTCHES.
- 20) PLACE CUSTOMER'S LAMINATED LEDCO TEST LAMINATE SHEET IN THE EDUCATOR MANUAL (XS58) LD06. PLACE ON FEED TABLE.
- 21) ADHERE AN EDUCATOR CD LABEL ONTO SHIPPING ENVELOPE AND INSERT EDUCATOR CD (CL01C) LD06. PLACE ON EDUCATOR MANUAL.
- 22) SET COMPLETED FINAL TEST & INSPECTION CHECKLIST AND LAMINATED JOB ON CD ENVELOPE.
- 23) SLIDE ZIPPY CUTTER (LC25 005.4) LD06 UNDER FEED TABLE GUIDE.
- 24) PLACE REMOVEABLE CORD (PRC118)
 LD06 ON FEED TABLE. PLACE SUPPLY
 ROLLS BETWEEN SIDE PANELS. STAGE
 FOR PACKING.



'CAUTION' LABELS IN ENGLISH & FRENCH

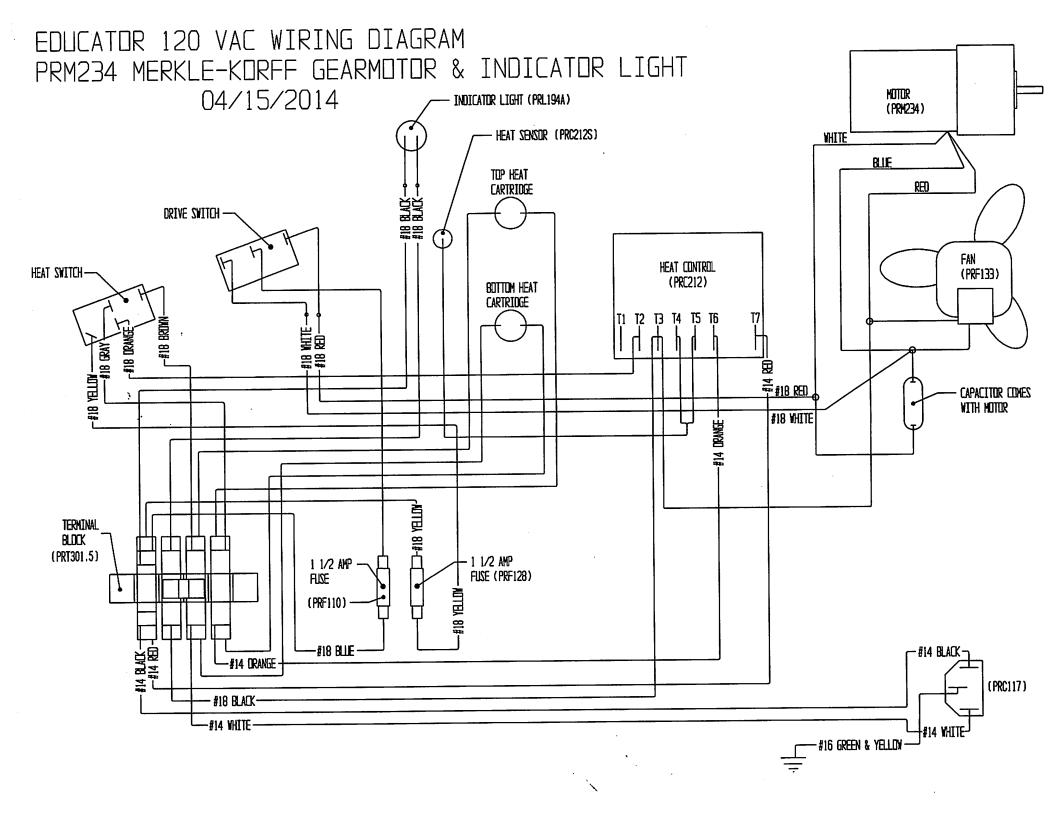






MANUAL, CUST LAM, DVD, TEST CARD, ZIPPY CUTTER, CORD





EDUCATOR LAMINATOR

220 VOLT NRTL ADDENDUM

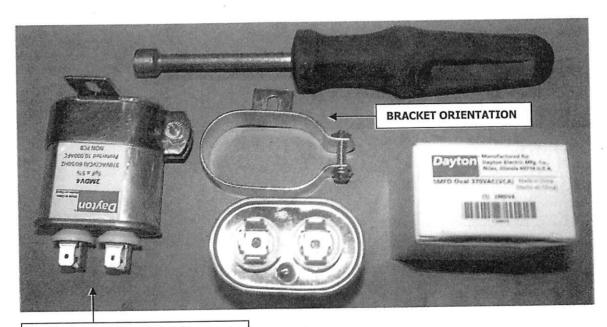
ASSEMBLY PROCEDURES

UPDATED SEPTEMBER 2011

EDUCATOR 220V CAPACITOR ASSEMBLY

Note: This capacitor is only used with the Molon Motor PRM229A for the 220v version.

- 1) REMOVE CAPACITOR (PRM229A) LD02 FROM BOX.
- 2) OPEN CAPACITOR BRACKET (PRM216B) LD02 BAG. SAVE NUT AND 8-32 X 1 PH. DISCARD RUBBER COVER.
- 3) WITH #8 TAP THREAD SMALLER BRACKET SCREW HOLE.
- 4) PLACE CAPACITOR INTO BRACKET ORIENTED TO PHOTO. PUT SCREW INTO LARGER HOLE AND THREAD INTO TAPPED HOLE. SECURE WITH NUT USING NUT DRIVER.

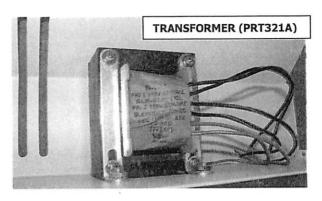


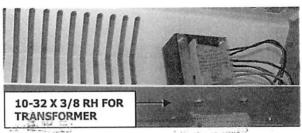
COMPLETED CAPACITOR ASSEMBLY

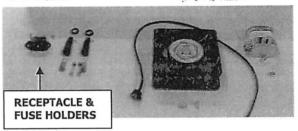
EDUCATOR BOTTOM MOTOR COVER NRTL 220V ASSEMBLY

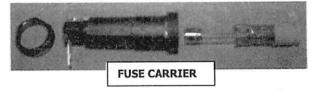
- 1) ALIGN THE 6-WIRE TRANSFORMER
 (PRT321A) AS13 TO THE RIGHT FRONT
 PREDRILLED BOTTOM MOTOR COVER
 (LC25 093.4C) LD09. LOCATE THE
 TRANSFORMER BETWEEN AND ACROSS
 FROM THE FUSES AND FAN LOCATION.
 ORIENT THE TRANSFORMER WITH THE
 WIRES FACING OUTWARD, AWAY FROM
 LOUVERS. SECURE WITH (4) 10-32 X
 3/8 RHMS FROM THE OUTER MOTOR
 COVER AND (4) #10 KEPS HEX NUTS ON
 THE INNER MOTOR COVER.
- 2) INSERT THE RECEPTACLE PANEL MOUNT (PRC117) LD11/AS07 INTO THE REAR MOTOR COVER, ORIENTED WITH THE SINGLE GROUND TERMINAL POST DOWNWARD. SECURE RECEPTACLE WITH (2) 6 X 3/8 TH MS AND A #6 HEX NUT.
- 3) INSERT (2) THREE-PART FUSE HOLDERS (PRF110) LD11 INTO THE REAR BOTTOM MOTOR COVER, WITH THE TERMINAL POSTS FACING INWARD. BEND POSTS IN LINE WITH HOLDER. SECURE FUSE HOLDER BY THREADING THE NUT WITH FLAT SIDE NEXT TO MOTOR COVER. USE A WRENCHG TO TIGHTEN.
- 4) FROM ASO7 SLIDE A ½ AMP FUSE
 (PRF136) INTO CARRIER AND INSERT
 INTO HOLDER BY RECEPTACLE. SLIDE A

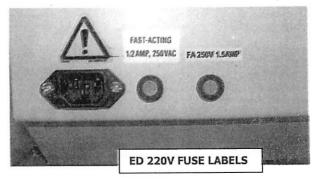
 1 ½ AMP FUSE (PRF128) IN CARRIER
 AND PUT INTO INNER HOLDER. SECURE
 CARRIERS IN HOLDERS WITH SLOTTED
 SCREWDRIVER BY DEPRESSING A
 CLOCKWISE QUARTER TURN, INWARD
 TO THE RIGHT.
- 5) ADHERE A .5 AMP FUSE LABEL (LAB109)
 RACK 5 ABOVE FUSE BY RECEPTABLCE
 AND 250 VOLT 1.5 AMP FUSE LABEL
 (LAB124) AS09 ABOVE INNER FUSE
 HOLDER.



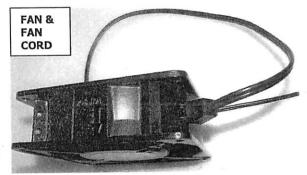


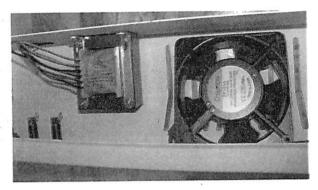


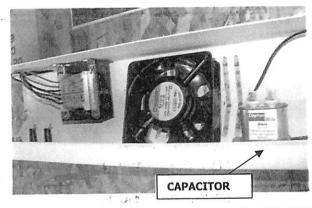


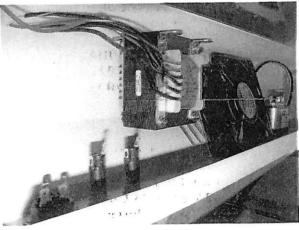


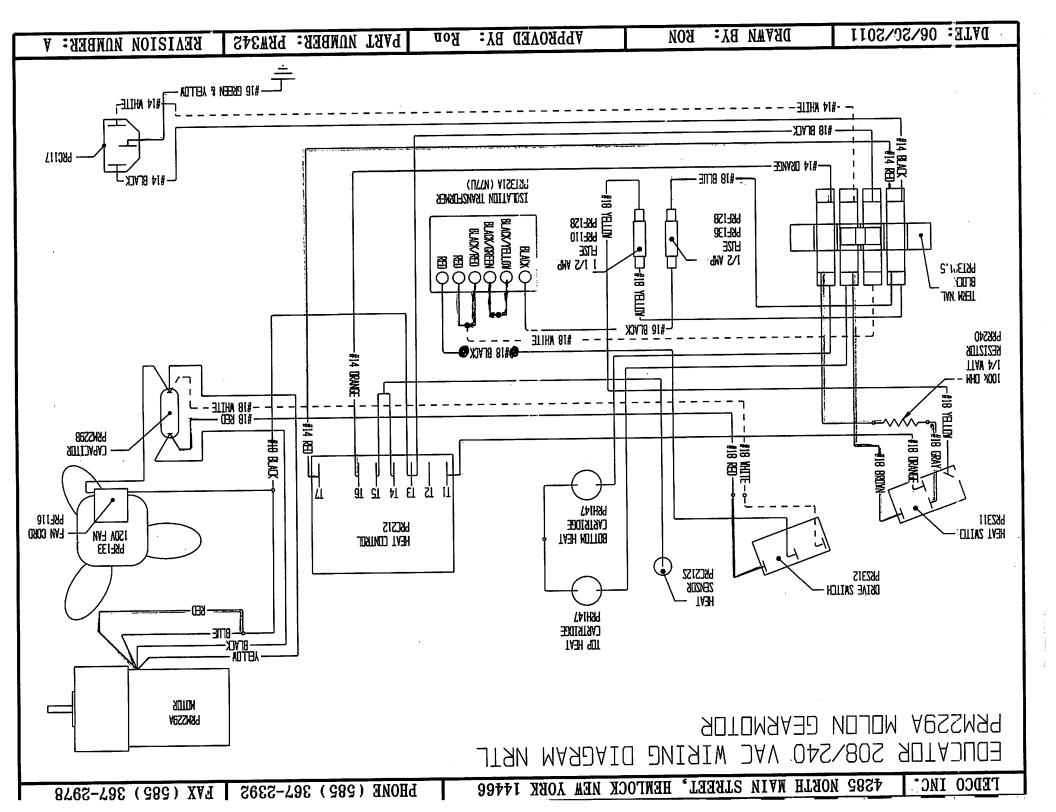
- 6) FROM LD03 TERMINATE THE FAN CORD (PRF116) PLUG ONTO THE TERMINAL POSTS OF THE AXIAL FAN (PRF133). ORIENT FAN IN THE BOTTOM MOTOR COVER WITH AIR FLOW ARROW INWARD AND THE FAN CORD FACING THE FUSES. SECURE FAN OVER LOUVERS USING (2) 10 X ½ PH SMS.
- 7) ALIGN THE CAPACITOR AND BRACKET TO THE REAR OF THE BOTTOM MOTOR COVER, BETWEEN THE FAN AND THE MOTOR LOCATION. ORIENT THE CAPACITOR WITH THE BRACKET UPWARD, RESTING FLAT ALONG THE INSIDE OF BOTTOM MOTOR COVER. SECURE THE CAPACITOR WITH A 10-32 X 3/8 RH MS ON OUTER MOTOR COVER AND A #10 KEPS NEX NUT ON THE INNER MOTOR COVER. WRENCH TIGHTEN.





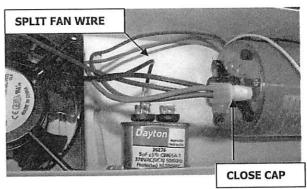


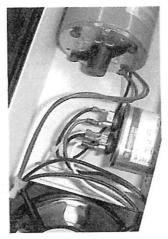




EDUCATOR NRTL 220V WIRING 2011

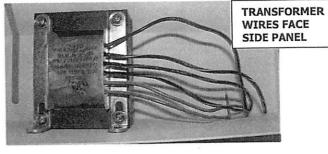
- 1) PLACE CHASSIS ON WORK TABLE WITH REAR FACING YOU. FOLLOW 220V NRTL EDUCATOR WIRING DIAGRAM DATED 6/20/2011 AND PHOTOS. USE 110V WIRING HARNESS (PRW342) LD04 WITH SOME MODIFICATIONS.
- 2) TRIM FAN WIRE LEAVING 15" ON FAN. SPLIT REMAINING FAN WIRE END APPROXIMATELY 4". CRIMP A FEMALE (PRT302) ONTO ONE OF THE SLPIT FAN WIRES AND CONNECT TOP, INNER CAPACITOR POST ON THE FAN SIDE.
- 3) USE LARGE CLOSE CAP (PRT290) AND CRIMP (4) WIRES TOGETHER: RED AND BLUE MOTOR WIRES, SPLIT FAN WIRE AND LONG BLACK OPEN ENDED WIRE FROM HARNESS, WHICH CONTINUES TO HEAT CONTROL T3 AND HAS A JUMPER FROM T3 TO LOWER 45 DEGREE FRONT/MIDDLE TERMINAL BLOCK.
- 4) CRIMP A FEMALE (PRT302) ONTO EACH OF THE BLACK AND YELLOW MOTOR WIRES. CONNECT BOTH TO CAPACITOR: YELLOW TO THE INNER, FAN SIDE TERMINAL POST GROUP AND BLACK TO OUTER, MOTOR SIDE TERMINAL POST.
- 5) CRIMP A FEMALE (PRT302) ONTO ONE END OF THE LONG WHITE AND RED LONG HARNESS WIRES. CONNECT RED TO CAPACITOR MOTOR SIDE POST AND WHITE TO INNER, FAN SIDE POST.
- 6) THE 6-WIRE NRTL TRANSFORMER
 (PRT321A) AS13 SECURES TO FRONT
 BOTTOM HOUSING ACROSS FROM FUSES,
 ORIENTED WITH TRANSFORMER WIRES
 FACING RIGHT SIDE PANEL.
- 7) WIRE TRANSFORMER: CRIMP A SMALL CLOSE CAP (PRT289) UNITING THE OUTER, FRONT RED TRANSFORMER WIRE WITH A BLACK 14" BAG WIRE THAT CONTINUES TO THE MIDDLE DRIVE SWITCH WIRE ON OUTER SIDE PANEL

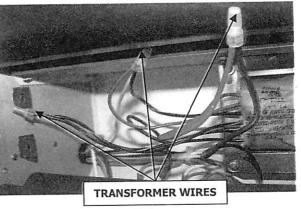






HARNESS BAG

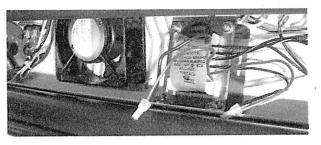


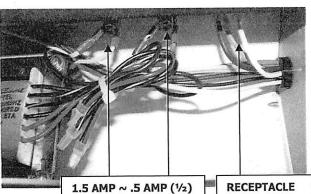


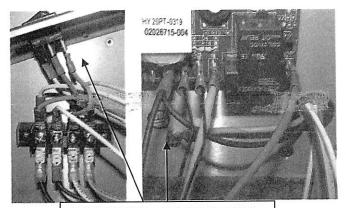
AND IS CLOSE CAPPED WITH IT. CLOSE CAP TOGETHER (3) WIRES: THE REMAINING TRANSFORMER INNER RED WIRE, THE BLACK/RED WIRE AND AN 18 GAUGE WHITE WIRE WHICH YOU ADD AND CONTINUES TO UPPER 180 DEGREE TERMINAL BLOCK POST, SECOND FROM FRONT. CLOSE CAP TOGETHER THE TRANSFORMER BLACK/GREEN AND BLACK/YELLOW. CRIMP A FEMALE (PRT2911) ONTO THE BLACK TRANSFORMER WIRE AND TERMINATE THE BLACK WIRE ON OUTER .5 AMP (1/2 AMP) FUSE, BY RECEPTACLE.

- 8) TERMINATE BOTH YELLOW WIRES FROM BAG ON INNER 1.5 AMP FUSE POSTS. CONTINUE YELLOW WIRE WITH LARGER FEMALE END TO UPPER FRONT 180 DEGREE TERMINAL BLOCK POST AND THE SMALLER FEMALE END TO INNER, FRONT HEAT SWITCH POST.
- 9) CONNECT A BLUE WIRE FROM BAG
 BETWEEN OUTER .5 AMP (½) FUSE POST,
 WHICH ALSO HAS THE BLACK
 TRANSFORMER WIRE, AND UPPER,
 FRONT 45 DEGREE TERMINAL BLOCK.
- 10) SECURE 14 GAUGE GREEN GROUND WIRE BETWEEN LOWER RECEPTICAL POST AND OUTER SIDE PANEL UNDER TRAKSTAT. USE A #10 STAR WASHER BETWEEN PANEL AND GROUND RING CONNECTOR. SECURE WITH #10 ACORN NUT. ADHERE INTERNATIONAL GROUND SYMBOL LABEL (LAB06) LD09 ABOVE GROUND WIRE CONNECTION.
- 11) WIRE THE TRAKSTAT HEAT BOARD CONTROL: RED 14 GAUGE ON T7 CONTINUING TO LOWER, FRONT 180 DEGREE TERMINAL BLOCK POST.

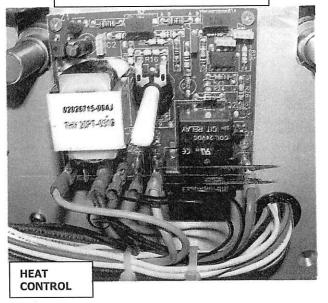
 ORANGE 14 GAUGE ON T6 CONTINUING TO LOWER, REAR 45 DEGREE TERMINAL BLOCK POST. PUT SENSOR WIRES ON T4 AND T5. T3 HAS DOUBLED BLACK WIRE FROM MOTOR WITH JUMPER THAT CONTINUING TO LOWER 45 DEGREE TERMINAL BLOCK POST SECOND FROM FRONT. ORANGE 18 GAUGE WIRE ON T1 CONTINUING TO INNER, UPPER HEAT SWITCH POST, BY SIDE PANEL.



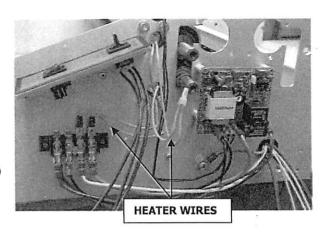


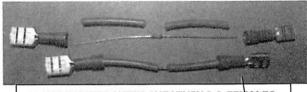


HEAT SWITCH ~ GROUND & LABEL

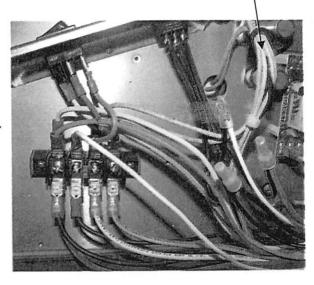


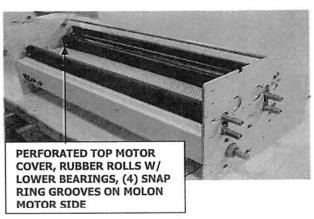
- 12) TRIM AND CLOSE CAP TOGETHER ONE WIRE FROM TOP AND BOTTOM HEATER. CRIMP A FEMALE (PRT292) ONTO EACH OF THE REMAINING (2) HEATER WIRES AND CONNECT TO UPPER REAR/MIDDLE AND REAR 180 DEGREE TERMINAL BLOCK POSTS, AS PICTURED.
- 13) CONNECT WHITE 14 GAUGE WIRE
 BETWEEN OUTER RECEPTACLE POST AND
 LOWER, MIDDLE/REAR 45 DEGREE
 TERMINAL BLOCK, LEFT OF ORANGE.
 CONNECT BLACK 14 GAUGE BETWEEN
 INNER RECEPTACLE POST AND LOWER,
 FRONT 45 DEGREE TERMINAL POST.
- 14) USE A 100K RESISTER (PRR240) AS08
 WITH GRAY SHEATHING OVER WIRE
 PORTION. CRIMP (2) FEMALES ENDS ON
 THE SHEATHED RESISTER; A (PRT302)
 AND A (PRT2911). CONNECT THE GRAY
 RESISTER WIRE BETWEEN OUTER,
 LOWER (MIDDLE) HEAT SWITCH POST
 AND UPPER, REAR45 DEGREE TERMINAL
 BLOCK POST. CONNECT THE SHORT
 BROWN WIRE BETWEEN OUTER, UPPER
 HEAT SWITCH POST, CROSS OVER GRAY
 AND CONNECT ON UPPER MIDDLE/REAR
 45 DEGREE TERMINAL BLOCK POST, LEFT
 OF GRAY RESISTER WIRE.
- 15) CLEAR CAP DRIVE SWITCH WIRES: RED CAPACITOR WIRE TO RIGHT/UPPER DRIVE SWITCH WIRE AND WHITE CAPACITOR WIRE TO LEFT/LOWER DRIVE SWITCH WIRE. THE MIDDLE DRIVE SWITCH WIRE CAPS WITH THE BLACK WIRE FROM TRANSFORMER (WHICH IS JOINED WITH OUTER TRANSFORMER RED WIRE.
- 16) PLUG INTO 220 VOLT POWER SOURCE USING AN ADAPTOR. TEST MACHINE FUNCTION OF DRIVE AND HEAT SWITCHES. STOP WHEN FLAT SIDE OF MOTOR SHAFT IS VERTICAL TO REAR.
- 17) WIPE THE BOTTOM REAR RUBBER ROLL WITH DAMP CLOTH. ADD AN OILITE BEARING (PRB048) LD11/AS08 TO EACH JOURNAL, FLANGE INWARD AND SNAP RING GROOVE ON MOTOR SIDE. SLIP RUBBER ROLL INTO BACK SLOT OF





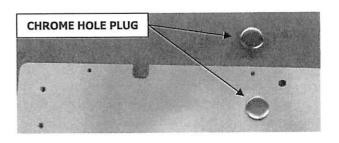


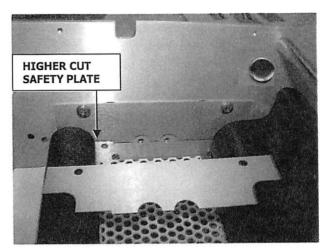


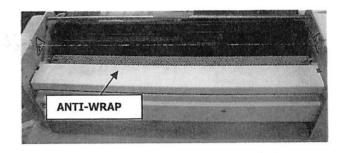


RUBBER ROLL INTO BACK SLOT OF MACHINE. WIPE A SECOND RUBBER ROLL AND INSERT <u>WITHOUT</u> BEARINGS. REMEMBER SNAP RING GROOVE GOES ON MOTOR SIDE.

- 18) SNAP A CHROME HOLE PLUG (PRC090)
 AS01 INTO THE INNER RIGHT SIDE
 PANEL, WHERE THE RED INDICATOR
 LIGHT FOR A 110V WOULD LOCATE.
- 19) POSITION PERFORATED TOP MOTOR COVER (LC25 092.4) LD04 OVER TINNEMAN BRACKETS IN CHASSIS. DO NOT SCRATCH RUBBER ROLLS. SLIDE TOP COVER TOWARD REAR AND SECURE WITH (4) 8 X 3/8 RH SMS.
- 20) ADD (2) SAFETY PLATES (LC25 034.4)
 LD03, ONE ON BOTH SIDES OF TOP
 MOTOR COVER WITH NOTCH
 DOWNWARD AND BOTTOM HIGHER CUT
 OF SAFETY PLATE TOWARD REAR OF
 MACHINE. USE (4) 10-32 X 1/4 PH.
- 21) PLACE AN ANTI-WRAP SHIELD (LC25 012.4B) LD03 OVER THE REAR RUBBER ROLLS, WITH THE BRACKETS FACING INWARD OVER TOP MOTOR COVER.

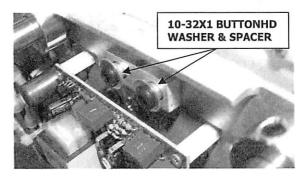


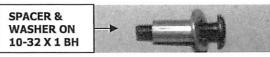


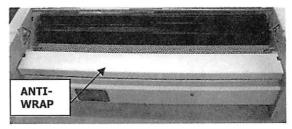


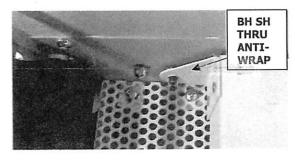
EDUCATOR 220V GEARING

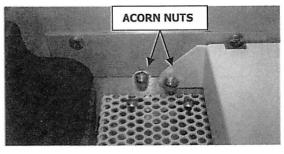
- 1) SET THE EDUCATOR BACK TOWARD YOU AND JIGGLE (2) PRESSURE BAR BEARINGS OVER THE TOP RUBBER ROLL JOURNALS, WITH THREADED BREAK UPWARD. SNUG TIGHT ON SIDE PANEL.
- 2) PLACE A #10 FLAT WASHER ON EACH OF
 (4) 10-32 X 1 BHSH. ADD A SPRING
 HOLDER SPACER (PRS202) LD05 ONTO
 EACH. INSERT THESE (2) BHSH UNITS
 EACH INTO (2) RUBBER ROLL SPRING
 HOLDERS (LC25 032.4) LD05. THREAD
 SPRING HOLDER SCREWS THROUGH
 PRESSURE BARS, FLUSH TO INNER SIDE
 PANELS. TIGHTEN ONLY FRONT SPRING
 HOLDER BHSH TO SIDE PANELS.
- 3) WITH THE ANTI-WRAP SHIELD (LC25 012.4B) LD04 OVER THE REAR RUBBER ROLLS AND THE BRACKETS FACING THE FRONT, THREAD THE (2) REAR BHSH ON REAR RUBBER ROLL SPRING HOLDERS JUST PAST INNER SIDE PANEL. ADD A #10 FLAT WASHER TO THE THREADS. THEN THREAD THE BHSH THROUGH ANTI-WRAP BRACKET. TIGHTEN (4) 10-32 ACORN NUTS ON THREADS HOLDING RUBBER ROLL SPRING HOLDER.
- 4) SECURE THE BACK SECTION OF THE ANTI-WRAP TO THE SIDE PANELS WITH (2) 10 X ½ PH SMS INTO COUNTERSUNK HOLES.
- 5) TAP (4) 12 TOOTH GEARS (PRG131) LD13
 ONTO MOTOR SIDE RUBBER ROLL
 JOURNALS, ALIGNING FLAT OF GEAR
 AND JOURNAL. SECURE GEARS WITH (4)
 RETAINING RINGS (PRR191) LD05.
 SNUG THE LEFT SIDE GEARS AND
 JOURNALS USING A RUBBER HAMMER.
- 6) ON RIGHT, CONTROL SIDE <u>TOP</u>
 <u>JOURNALS ONLY</u>TIGHTEN (2) ½ SHAFT
 COLLARS (PRC096) LD05/AS07 FLUSH
 WITH PRESSURE BAR.
- 7) TAKE (2) 10-32 X 1 3/4 SHCS, PUT A #10 FLAT WASHER, AN ORANGE HEFTY SPRING (LC25 031.4) LD05 AND ANOTHER #10 FLAT WASHER ON EACH. ADD A DROP OF LOCTITE TO THE END

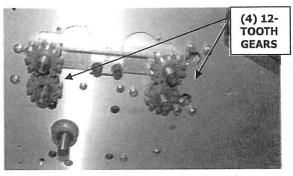






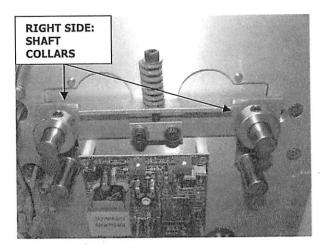


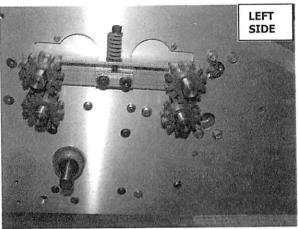


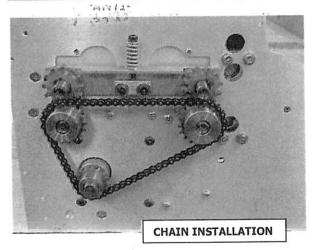


THREADS AND SNUG DOWN THROUGH PRESSURE BAR INTO RUBBER ROLL SPRING HOLDER. WHEN SPRING TOUCHES BOTH WASHERS AND LIFTS SPRING HOLDER; TIGHTEN 12 HALF TURNS ON LEFT/GEAR SIDE, 10 HALF TURNS ON RIGHT/CONTROL SIDE.

- TURN MACHINE SO GEARS FACE YOU. 8) ALIGN FLAT SIDE OF LOWER GEARS **OUTWARD, LOOSEN MOLON MOTOR** SCREWS. SEAT CHAIN (PRCO83.A) LD13 WITH CONNECTING LINK FACING **OUTWARD ON A 25B19 SPROCKET** (PRS251) LD13. SLIDE SPROCKET OVER RIGHT LOWER RUBBER ROLL JOURNAL AND ALIGN SET SCREW WITH FLAT OF SHAFT, DON'T TIGHTEN YET. SEAT CHAIN ON 25B15 SPROCKET (PRS2455) LD13 AND SLIDE ON MOTOR JOURNAL, ALIGNING SET SCREW WITH FLAT OF JOURNAL, SEAT CHAIN ON A 25B18 SPROCKET (PRS249) LD13 AND TAP ONTO BOTTOM BACK RUBBER ROLL JOURNAL ALIGNED WITH FLAT SIDE.
- 9) USE DISTANCE GAUGE ON ALL SPROCKET TEETH AND TIGHTEN SET SCREWS ON FLAT OF JOURNALS. TIGHTEN MOTOR SET SCREW LAST. RETIGHTEN SCREWS HOLDING MOLON MOTOR TO SIDE PANEL.



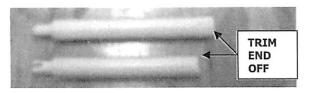


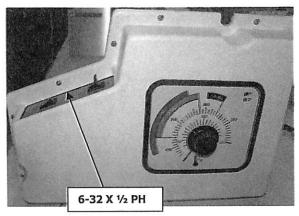


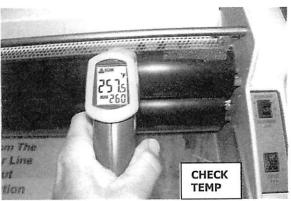


EDUCATOR 220V NRTL TESTING

- 1) TRIM OFF THE LINED END ON A POTENTIOMETER EXTENSION STEM (PRC213) LD05 AND INSERT STEM INTO TRAKSTAT HEAT CONTROL.
- 2) ADHERE AN EDUCATOR TEMPERATURE DECAL (LAB55B) LD05 CENTERED OVER THE POTENTIOMETER EXTENSION OPENING ON A RIGHT HOUSING (LC25 094.4R) LD06. SLIDE HOUSING ONTO PANEL. SECURE HOUSING WITH (10) 6-32 X 3/16 PH AND (1) 6-32 X ½ RH, LOCATED IN SAFETY SHIELD POSITION.
- 3) ROTATE POTENTIOMETER EXTENSION TO THE FULL LEFT AND ADD A CONTROL KNOB (PRC213) LD05 ALIGNING INDICATOR MARK ON KNOB WITH LOWEST SETTING ON DECAL. SECURE STEM WITH AN 8-32 X 3/8 SET SCREW.
- SET TEMPERATURE TO 260F DEGREES.
- 5) PLUG POWER CORD INTO 220 VOLT
 POWER OUTLET USING AN ADAPTER AND
 TURN ON LAMINATOR. FANS SHOULD
 TURN. CHECK CHAIN DIRECTION AND
 FUNCTION OF HEAT SWITCH LIGHT.
- 6) AS CHAIN TURNS ADD A *LIGHT* COATING OF STP OIL TO CHAIN AND GEARS.
- 7) FILL OUT PAPERWORK: "FINAL TEST & INSPECTION CHECKLIST," CUSTOMER "TEST LAMINATE" AND JOB SHEET WITH ASSEMBLER'S NUMBER AND DATE.
- 8) CHECK SHOE TEMPERATURE WITH PYROMETER. TEST AT 260F DEGREES.
- 9) LOAD FILM ONTO SUPPLY ROLLS. THE SUPPLY ROLL TENSION KNOBS GO ON THE RIGHT SIDE. ALIGN SUPPLY ROLLS SO THE SHINY SIDE OF THE FILM GOES NEXT TO HEAT SHOE AND TOP AND BOTTOM FILM MEET AT OUTER EDGES. USE A FEED BOARD TO START FILMS THROUGH MACHINE.

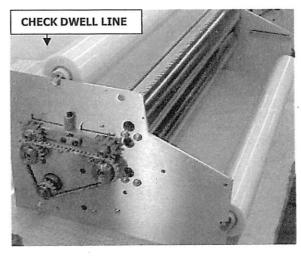


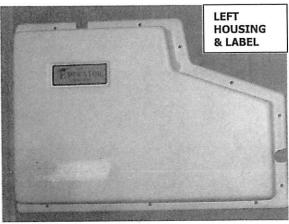


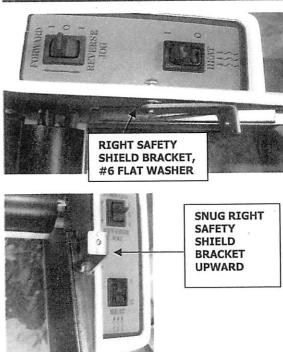




- 10) TURN OFF THE EDUCATOR, WAIT ABOUT 15 SECONDS, AND RESTART. RUN FILM THROUGH UNTIL DWELL LINE APPEARS ON FILM. STOP FILM AND CHECK DWELL LINE FOR EVENNESS AND ADHESION. IF DWELL EDGES ARE UNEVEN, ADJUST SPRING TENSION TO MATCH SIDE MOST SIMILAR TO CENTER OF DWELL LINE.
- 11) LAMINATE THE CUSTOMER'S TEST
 MATERIAL AND THE JOB SHEET. CHECK
 LAMINATES FOR FLATNESS AND EDGE
 SEAL. TRIM LAMINATES, LEAVING
 ABOUT 1/8 EDGE.
- 12) TURN OFF THE HEAT AND UNLOAD FILM.
 ALLOW THE HEAT SHOES TO COOL DOWN
 WHILE RUNNING EDUCATOR WITH FAN
 ON.
- ADHERE EDUCATOR LABEL (LAB56) LD05
 CENTERED INTO THE DEPRESSED OUTER
 SECTION OF THE LEFT HOUSING (0285
 094.4L) LD06. WIPE THE LOWER SIDE
 PANEL EDGE WITH A RAG. SECURE
 HOUSING TO SIDE PANEL USING (10) 632 X 3/16 PH AND (1) 6-32 X 1/2 RH. THE
 6-32 X 1/2 PH IS POSITIONED TO HOLD
 THE SAFETY SHIELD.
- 14) PLACE A #6 FLAT WASHER ON EACH OF THE (2) 6-32 X ½ PH THREADS HOLDING HOUSING ON. SET A RIGHT SAFETY SHIELD BRACKET (0285 190.4R) LD06 ON THE RIGHT SIDE THREADS. THE LONGER SIDE OF THE BRACKET IS UPWARD. ADD A DROP OF LOCTITE INTO (2) 6-32 ACORN NUTS. HOLD THE RIGHT SAFETY SHIELD BRACKET UPWARD AND SECURE #6 ACORN NUT. USE A NUT DRIVER TO TIGHTEN ACORN NUTS.
- 15) REPEAT THIS PROCEDURE ON THE LEFT HOUSING 6-32 X ½ RH SCREW, AND USE A LEFT SAFETY SHIELD BRACKET (0285 190.4L) LD06. TIGHTEN BRACKET IN UPWARD POSTION WITH ACORN NUT.
- 16) PEEL PLASTIC COVERING BACK ON THE DEEPER SET HOLES OF THE SAFETY SHIELD (4500 074.4) LD06. SECURE





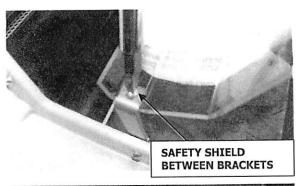


SAFETY SHIELD BETWEEN SAFETY
SHIELD BRACKETS, AS PICTURED, USING
(2) 6-32 X ¹/₄ PH. OPEN AND CLOSE THE
SAFETY SHIELD A FEW TIMES, UNTIL IT
MOVES SMOOTHLY.

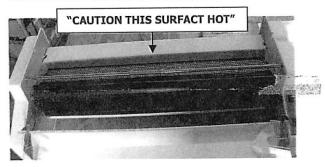
- 17) CENTER AND ADHERE THE YELLOW
 "INTERNATIONAL HOT" LABEL (LAB100)
 AS09 IN THE MIDDLE OF THE SAFTEY
 SHIELD, JUST BELOW THE UPPER BREAK.
- 18) ON <u>BOTH</u> OUTER EDGES OF THE SAFETY SHIELD ALIGN AND ADHERE A YELLOW "GENERAL DANGER" LABEL (LAB52) AS09 WITH AN EQUIL DISTANCE FROM EDGE ON BOTH SIDES OF THE SAFETY SHIELD.
- 19) CENTER AND ADHERE A RED "CAUTION THIS SURFACE HOT" LABEL (LAB62) LD05 ON UPPER STABILIZER BAR.
- 20) ON BOTH INNER SIDE PANELS, LOCATED ABOVE THE SAFETY PLATES, CENTER, ALIGN AND ADHERE A YELLOW "ARM ENTANGLEMENT" LABEL (LAB51) AS09, CENTERED ABOVE THE SAFETY PLATES.
- 21) INSERT FEED TABLE ASSEMBLY
 BETWEEN FEED TABLE BRACKETS. THE
 FEED TABLE SHOULD SLIDE IN AND OUT
 OF THE BRACKETS EASILY.

-32 KHANE

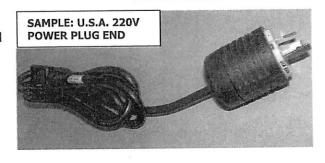
- 22) INDIVIDUAL COUNTRIES HAVE
 DIFFERENT 220V ELECTRICAL PLUG
 REQUIREMENTS. THEREFORE, THE PLUG
 END OF THE REMOVEABLE POWER CORD
 (PRC118) LD06 IS CUT OFF AND
 REPLACED WITH THE SPECIFIC POWER
 PLUG END FOR THE COUNTRY OF
 DESTINATION. THE POWER PLUG FOR'
 UK/ENGLAND IS (PRC123). IF WE ARE
 NOT CERTAIN OF THE PROPER PLUG,
 SHIP CORD WITHOUT A PLUG ON THE
 END OF IT.
- 23) CHECK THE LABELS ON BACK OF BOTTOM MOTOR COVER: THE 220V EDUCATOR SREIAL NUMBER WILL BE AHDERED DURING THE PACKING PROCEDURE. IT IS LOCATED RIGHT OF THE FUSE CARRIERS.
- 24) ON THE MOTOR SIDE OF THE 220V











- **EDUCATOR ADHERE THE "MADE IN** AMERICA" LABEL (LABO6) LD11.
- CENTERED AND ADHERE ABOVE 1/2 AMP 25) FUSE, LOCATED RIGHT OF RECEPTACLE, A FAST-ACTING 1/2 AMP 250VAC LABEL (LAB109) RACK 5. RIGHT OF THE 1/2 AMP FUSE IS A 1.5 AMP FUSE. CENTER AND ADHERE A "FA 250V 1.5 AMP" LABEL (LAB124) AS09 ABOVE 1.5 AMP FUSE.
- CENTERED AND ADHERE ABOVE THE 26) RECEPTACLE A YELLOW "GENERAL DANGER" LABEL (LAB52) AS09.
- PLACE (2) SUPPLY ROLL MANDRELS 27) (LC25 002.5) LD06, WITH KNOBS ON THE CONTROL SIDE, BETWEEN PANELS.
- INSERT CUSTOMER'S TEST LAMINATE 28) AND SUPPLY ROLL MANUAL ADDENDUM SHEET INTO THE EDUCATOR MANUAL (XS58) LD06. PLACE ON FEED TABLE.
- 29) ADHERE EDUCATOR CD LABEL ONTO SHIPPING ENVELOPE AND INSERT CD (CL01C) LD06. PLACE ON MANUAL.
- SET COMPLETED "FINAL TEST & 30) INSPECTION CHECKLIST" AND LAMINATED JOB ON CD ENVELOPE.
- SET REMOVEABLE CORD WITH PROPER 31) PLUG ON FEED TABLE.

