C15 AUTOCUTTER FINISH LINE

110 VOLT

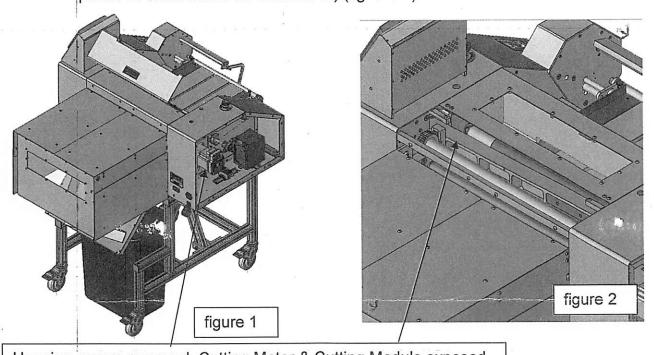
ASSEMBLY PROCEDURES

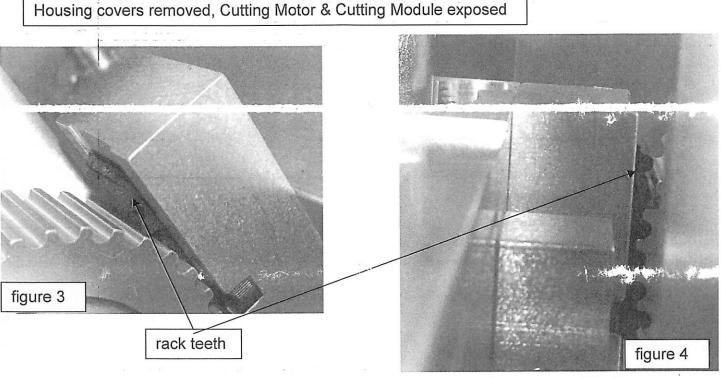
Retightening of set screws in cutting motor drive system & repositioning of Rack & Pinion cutting Mechanism

i) Unplug system from power caries.

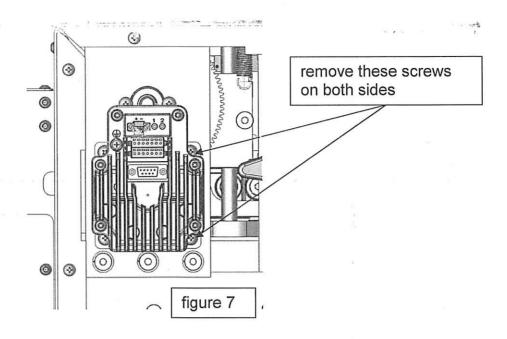
2) Remove Right & Left Housing Covers & Cutting Module cover exposing Cutting Motor and Cutting Module (fig. 1 & 2).

With Cutting Module in the down position verify Rack & Pinions are in the correct position by verifying the controls side and motor side Rack & Pinions have the same tooth count from top of racks (use camera on phone or small mirror for verification) (fig. 3 & 4)

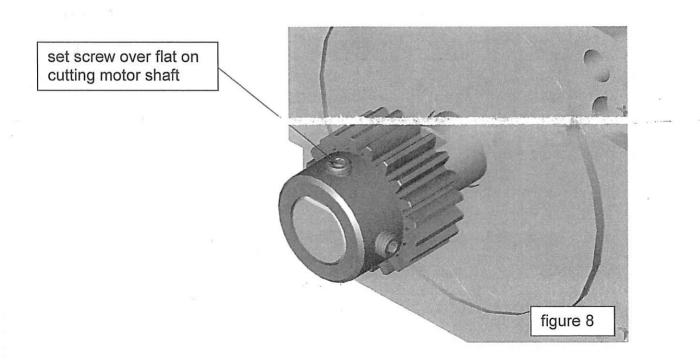




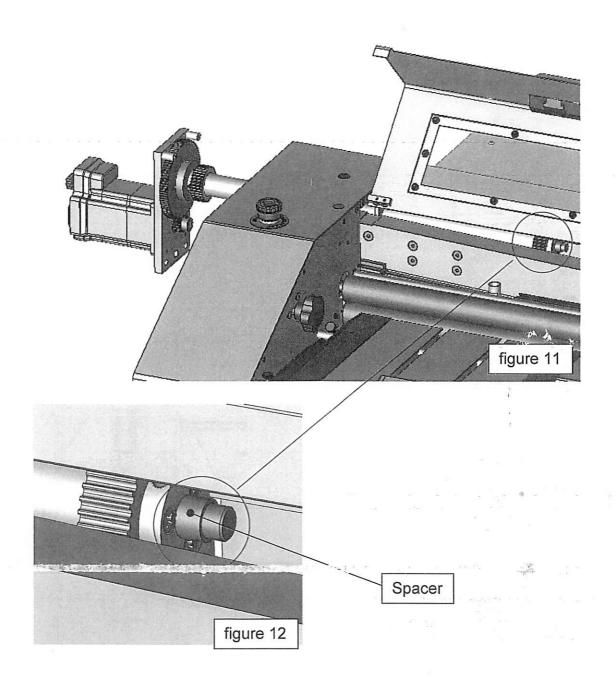
6) Remove cutting motor by removing 4 screws as indicated (figure 7).



7) Inspect and tighten set screws, Note: one set screw must be located over flat on motor shaft to operate correctly (figure 8). Replace cutting motor and test system, if system still not operating correctly proceed to step 5, 8-13.



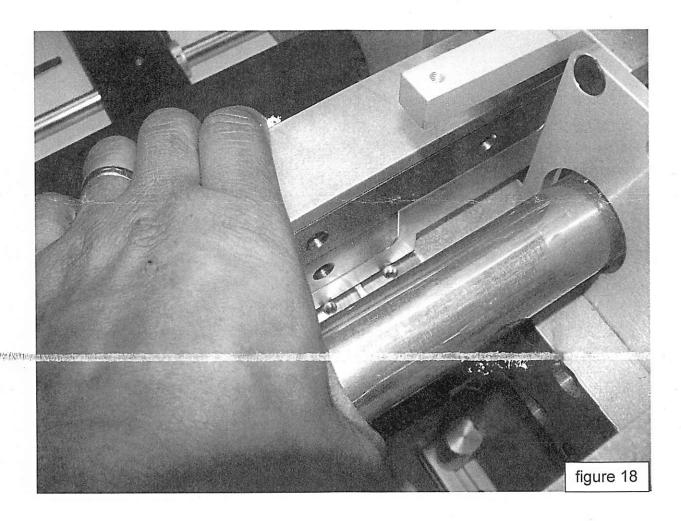
10) Partially pull assembly out as shown in figure 11, place support under motor to keep assembly horizontal. **Note: Do not lose spacer, see figure 12.**

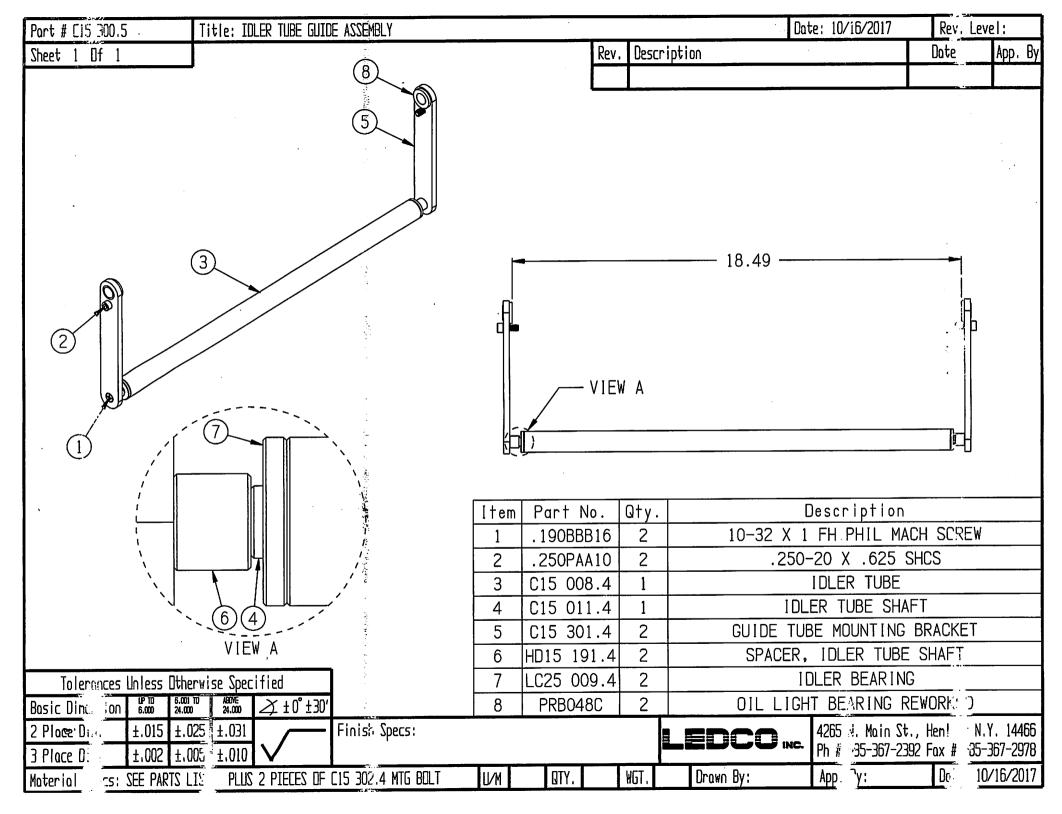


set screw over flat on shafts

Replace Cutting Gears & Motor Assembly, blade should be in lowest coccion. Standard the Cutting Motor size and adding a much force as possible squeeze the pinion shaft against the Cutting Module as shown in figure 18 and while maintaining that force secure the Cutting Motor side (fig. 20). Repeat the process for the controls side of the Cutting Gears & Motor Assembly (fig. 19). After tightening all bolts, the Cutting Motor and Cutting gear mounts should be back to or past initial sortion marks. Verify the controls side and motor side Rack & Pinions have the same tooth count from top of racks (use camera on phone or small mirror for verification) (fig. 3 & 4). Replace wiring harness and ground to cutting motor and test C15 Cutter. Tie wrap wiring harness and replace covers.

13)





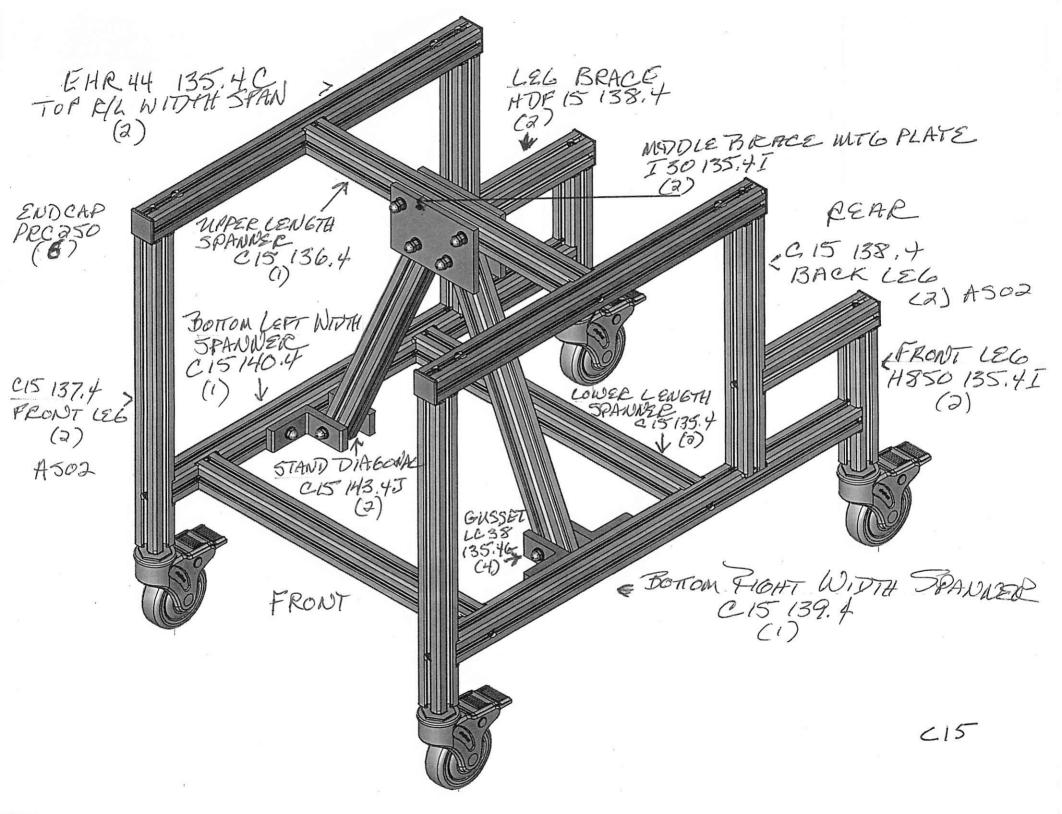
C15 AUTOCUTTER FINISH LINE

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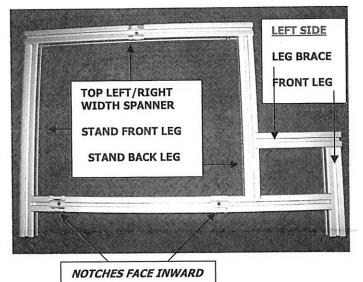
HIGH POT TESTING

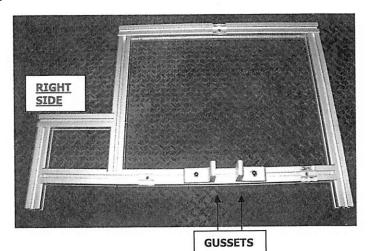
17)

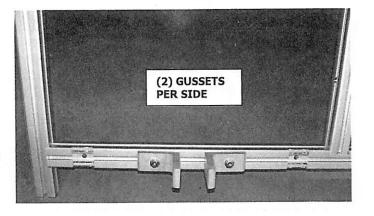


C15 STAND WITH LEG BRACE

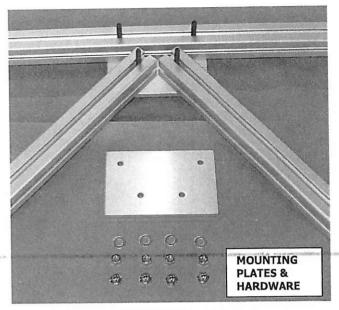
- 1) THE C15 EXTRUDED STAND IS BUILT WITH THE LEG BRACE SUPPORT TO THE REAR OF THE CUTTER, RATHER THAN THE USUAL FRONT. LOCATIONS ARE BOTH LOFT 1 AND ASO2. ASSEMBLY OF THE C15 STAND IS AS FOLLOWS:
- 2) THE HARDWARD USED IS: (6) 5/16-18 X 3 SHCS, (20) 5/16-18 X 1½ SHCS, (4) (4) 5/16-18 X 1 CARRIAGE BOLTS, (16) 5/16 FLAT WASHERS, (4) 5/16 HEX NUTS AND (8) 5/16-18 ACORN NUTS.
- 3) ASSEMBLE RIGHT AND LEFT STAND ENDS. PLACE TOP LEFT/RIGHT WIDTH SPANNER (EHR44 135.4C) LOFT 1 ON A WORKTABLE; OUTER COUNTERBORE UPWARD, NOTCH INWARD. FROM ASO2 SECURE THE LONGER STAND FRONT LEG (C15 137.4) AND THE SHORTER STAND BACK LEG (C15 138.4) THROUGH TOP COUNTERBORE WITH 5/16-18 1½ SHCS. ORIENT NOTCHES FACING REAR.
- SECURE THE LEG BRACE (HDF15 138.4) 4) LOFT 1 INTO THE BACK SUPPORT NOTCH, COUNTERBORE UPWARD, WITH 5/16-18 X 11/2 SHCS. SECURE FRONT LEG (H850 135.4I) LOFT 1 TO THE FRONT LEG BRACE, NOTCH INWARD, USING 5/16-18 X 11/2 SHCS. FROM AS02 SECURE BOTTOM LEFT WIDTH SPANNER (C15 140.4) AND **BOTTOM RIGHT WIDTH SPANNER (C15** 139.4) BETWEEN FRONT LEG, FRONT SUPPORT AND BACK LEG, NOTCH INWARD, USING 5/16-18 X 11/2 SHCS. SECURE (2) STAND GUSSETS (LC38 135.4G) BY INSERTING A 5/16-18 X 1 CARRIAGE BOLT INTO THE BOTTOM SIDE SPANNER NOTCH, BREAK INWARD. ADD A 5/16 FLAT WASHER TO THE CARRIAGE BOLT THREADS AND SNUG A 5/16-18 ACORN NUT ONTO THREADS.

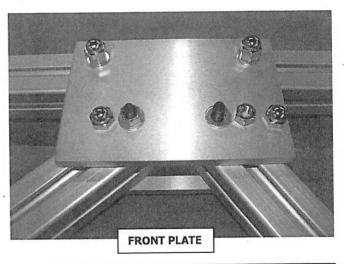


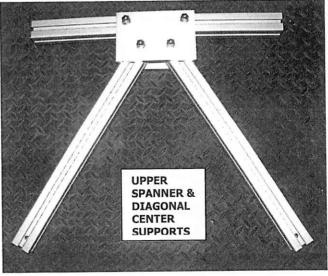




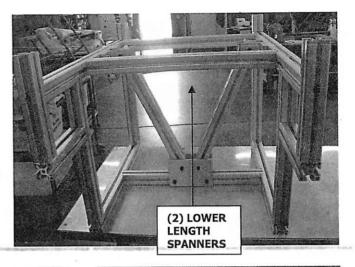
- 5) SECURE (2) STAND GUSSETS (LC38
 135.4G) LOFT 1 BY INSERTING A 5/1618 X 1 CARRIAGE BOLT INTO THE
 BOTTOM SIDE SPANNER NOTCH, BREAK
 INWARD. ADD A 5/16 FLAT WASHER TO
 THE CARRIAGE BOLT THREADS AND
 SNUG A 5/16-18 ACORN NUT ONTO
 THREADS.
- PLACE A 5/16 FLAT WASHER ON EACH OF 6) (4) 5/16-18 X 3 SHCS. SET A MIDDLE **BRACE MOUNTING PLATE (I30 135.4I)** LOFT 1 ON THE (4) SHCS. FROM AS02 ALIGN A MACHINE STAND UPPER LENGTH SPANNER (C15 136.4) WHICH HAS TWO HOLES IN THE CENTER TO ACCOMMODATE THE MOUNTING PLATE, HOLES ARE ORIENTED FRONT AND BACK, ON MORE DISTANT HOLES. PLACE (2) STAND DIAGONAL CENTER SUPPORT (C15 143.4J) ON THE (2) CLOSER, LOWER MOUNTING PLATE HOLES. PLACE ANOTHER MIDDLE BRACE MOUNTING PLATE ON THE SHCS THREADS AND **LOOSELY SECURE WITH A 5/16 FLAT** WASHER, 5/16-18 HEX NUT AND A 5/16-18 ACORN NUT. THE ACORN NUTS WILL FACE THE FRONT OF THE MACHINE.
- 7) ROTATE THE TOP WIDTH SPANNER SO THE ACORNS ARE FACING THE FRONT AND THE STAND DIAGONALS ARE UPWARD.
- 8) PLACE STAND ENDS UPSIDE DOWN ON WORKTABLE. SLIDE THE UPPER LENGTH SPANNER AND THE (2) DIAGONALS IN THE END NOTCHES. LOOSELY SECURE THE DIAGONALS BETWEEN THE GUSSETS WITH 5/16-18 X 3 SHCS, WASHERS ON EACH SIDE AND AN ACORN NUT FACING THE FRONT. SECURE THE UPPER LENGTH SPANNER WITH 5/16-18 X 1½ SHCS.

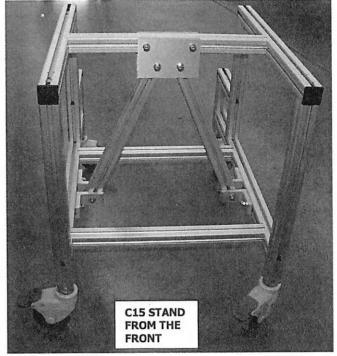






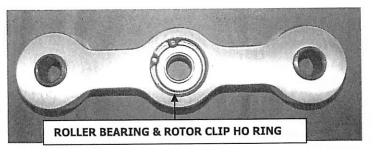
- 9) SECURE (2) LOWER LENGTH SPANNERS (C15 135.4) AS02 USING 5/16-18 X 1½ SHCS.
- 10) THREAD (4) 'IN HOUSE' CASTERS SHIPPING DEPT INTO LOWER LEGS FOR MOBILITY. PLACE STAND RIGHTSIDE UP ON FLOOR.
- 11) TAP (6) END CAPS (PRC250) LOFT 1 INTO THE EXPOSED EXTRUDED ENDS.
- 12) CHECK THAT ALL SCREWS, NUTS AND ACORNS ARE TIGHT.



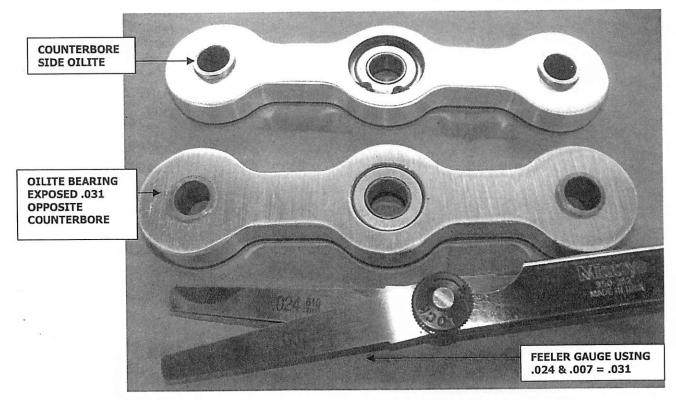


C15 RUBBER ROLL PIVOT ARM ASSEMBLY

- 1) ASSEMBLE A RIGHT AND LEFT RUBBER ROLL PIVOT ARM (C15 056.4) RACK 24 BY ARBOR PRESSING AN R6-ZZ ROLLER BEARING (PRB075) RACK 12 FULLY INTO THE COUNTERBORE OF THE RUBBER ROLL PIVOT ARM. SECURE THE ROLLER BEARING WITH A ROTOR CLIP HO RING (PRC275) RACK 12.
- 2) ARBOR PRESS A WORKED OILITE SLEEVE BEARING (PRB111A) RACK 12 INTO EACH END OF BOTH PIVOT ARMS FROM THE COUNTERBORED SIDE. MEASURE THE EXPOSED AMOUNT OF OILITE BEARING ON THE OPPOSITE SIDE TO .031. USE A FEELER GAUGE. WITH OUR FEELER GAUGE THE .007 AND .024 ARE HELD TOGETHER TO EQUAL .031.





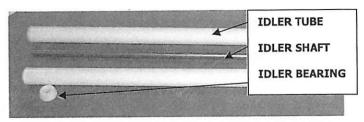


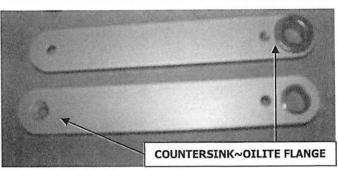


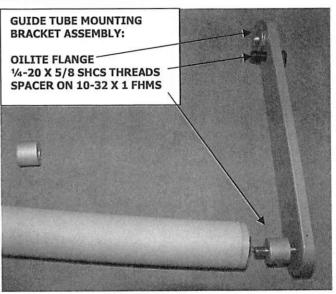
C15 FEED TABLE ASSEMBLY

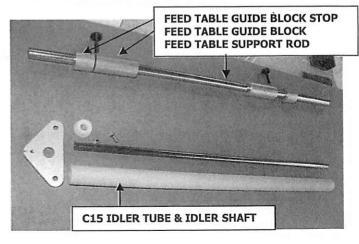
- 1) TAP A WHITE NYLON IDLER BEARING (LC25 009.4) LD12 INTO BOTH ENDS OF (2) IDLER TUBES (C15 008.4) LOFT 7.
- 2) INSERT AN IDLER TUBE SHAFT (C15 011.4) LOFT 6 THROUGH WHITE NYLON BEARINGS ON BOTH OF THE IDLER TUBES. SET ASIDE.
- 3) ARBOR PRESS A WORKED OILITE BEARING (PRB048C) RACK 24 INTO THE ENDS OF (2) GUIDE TUBE MOUNTING BRACKETS (C15 301.4) RACK 24. ***ORIENT THE OILITE FLANGE ON THE OPPOSITE SIDE OF THE COUNTERSINK. THE OILITE FLANGE WILL FACE INWARD ON BOTH BRACKETS. OPEN OILITE BEARINGS WITH A .505 REAMER.
- 4) FROM THE OUTER GUIDE TUBE
 MOUNTING BRACKET, BELOW THE
 OILITE BEARING, THREAD A 1/4-20 X
 5/8 SHCS. THE INNER THREADS
 WILL ACT AS A "STOP."
- 5) SECURE ONE OF THE ASSEMBLED IDLER TUBES BETWEEN THE GUIDE TUBE MOUNTING BRACKET SPACERS; THE OILITE FLANGE IS INWARD, AND THE COUNTERSINK IS OUTWARD.

 ***TIGHTEN ON A FLAT SURFACE SO MOUNTING BRACKETS ARE LEVEL.
 USE 10-32 X 1 FHMS, EACH WITH A SPACER IDLER TUBE SHAFT (HD15 191.4) LOFT 6. LOCTITE THREADS.
- 6) SLIDE (2) FEED TABLE GUIDE BLOCKS (H380 100.4) AS07, WITH FLAT SECTION INWARD, OVER THE ENDS OF A FEED TABLE SUPPORT ROD (C15 196.4) AS02. ADD A FEED TABLE GUIDE BLOCK STOP (C15 101.4) RACK 24 TO EACH END. THREAD A 10-32 X 1/4 SET SCREW INTO EACH FEED TABLE GUIDE BLOCK STOP.

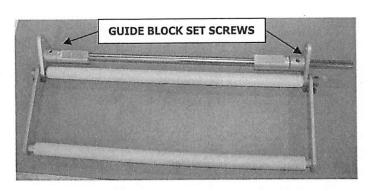


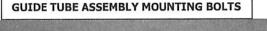




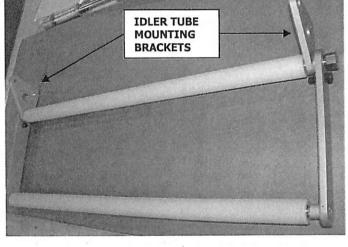


- 7) WITH THE COUNTERSINKS FACING OUTWARD, ALIGN (2) IDLER TUBE MOUNTING BRACKETS (C15 192.4) RACK 24, AND SLIDE OVER THE ENDS OF THE ASSEMBLED FEED TABLE SUPPORT ROD. FOR THE LEFT SIDE, SNUG THE GUIDE BLOCK SET SCREW NEXT TO THE MOUNTING BRACKET, WITH SUPPORT ROD FLUSH WITH OUTER MOUNTING BRACKET. ON THE RIGHT SIDE THE MOUNTING BRACKET EXTENDS PAST THE GUIDE BLOCK. LEAVE RIGHT SIDE GUIDE BLOCK LOOSE FOR NOW.
- ORIENT THE (2) IDLER TUBE 8) MOUNTING BRACKET COUNTERSINKS UPWARD AND SECURE THE SECOND ASSEMBLED IDLER TUBE BY INSERTING A GUIDE TUBE ASSEMBLY MOUNTING BOLT (C15 302.R) RACK 24: FIRST INTO THE OILITE BEARING IN THE GUIDE TUBE MOUNTING BRACKET, THEN THROUGH THE FRONT COUNTERSINK ON THE IDLER TUBE MOUNTING BRACKET, THEN THREADING INTO THE IDLER SHAFT. **USE LOCTITE ON MOUNTING BOLT** THREADS. KEEP BRACKETS EVEN AS YOU THREAD IN.
- 9) LOCTITE THREADS ON A 10-32 X 3/4
 SET SCREW. THREAD INTO AN IDLER
 TUBE MOUNTING POST (C15 193.4)
 RACK 24. LEAVE THREADS SHOWING
 TO EQUAL THE THICKNESS OF AN
 IDLER TUBE MOUNTING BRACKET.
 SECURE THE MOUNTING POST UNDER
 THE EXTENDED FEED TABLE SUPPORT
 ROD, USING THE REMAINING SET
 SCREW THREADS.
- 10) THREAD A SPI KNOB WITH 1 1/4"
 SCREW (PRK179) AS07 INTO EACH
 OF THE FEED TABLE GUIDE BLOCKS,
 ALIGNED WITH THE FLAT SIDE OF
 THE MOUNTING BRACKETS. SLIDE
 THE GUIDE BLOCKS NEXT TO THE
 GUIDE BLOCK STOPS AND SNUG THE
 SPI KNOBS.
- 11) ORIENT AND SLIDE A DANCER
 MOUNTING PLATE (C15 287.4) AS02
 OVER THE RIGHT SIDE EXTENDED FEED









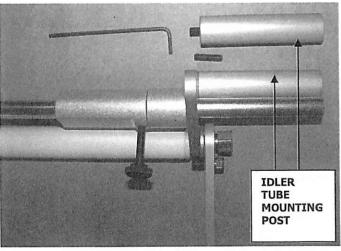
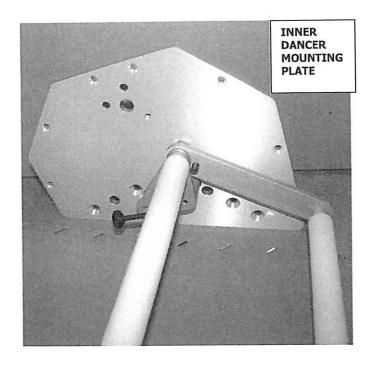
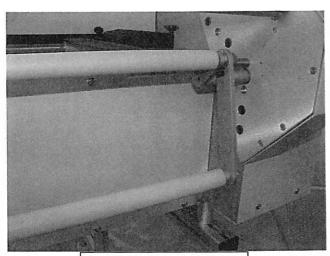


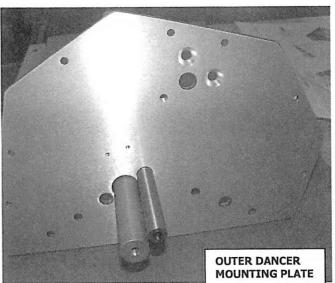
TABLE SUPPORT ROD AND IDLER TUBE MOUNTING POST. NOTE HOLE LOCATION ON PICTURES.

12) THE FEED TABLE ASSEMBLY IS NOW READY TO ATTACH TO THE FRONT CHASSIS.





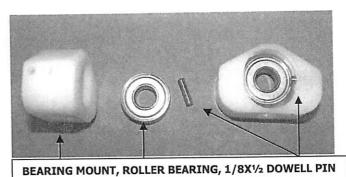






C15 BEARING MOUNT & PIN ASSEMBLY

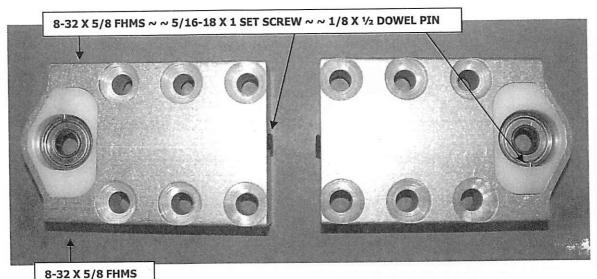
- 1) MAKE (2) OF THE BEARING MOUNT AND PIN ASSEMBLIES, AS FOLLOWS.
- 2) INSERT AN R6-ZZ ROLLER BEARING
 (PRB075) RACK 12 INTO A WHITE
 DELRON BEARING MOUNT (C15 408.4)
 RACK 24. PUSH ROLLER BEARING
 FULLY INTO THE COUNTERBORE.
- 3) ARBOR PRESS A 1/8 X ½ DOWELL PIN (.125JOP08) AS13 INTO THE OUTER, UNTAPPED END, FLUSH WITH OUTER BEARING MOUNT. THE PIN HOLDS THE ROLLER BEARING, BUT THERE IS PLAY.
- 4) SET A MOUNT FOR BEARING AND PIN ASSEMBLY (C15 409.4) RACK 24 ON END, WITH THE OPENING UPWARD.
- 5) INSERT A ½" DIAMETER BALL
 BEARING (PRB262) LOFT 6 INTO THE
 MOUNT OPENING, THEN INSERT A
 WHITE SPRING (PRS229) RACK 9, AND
 ANOTHER ½" DIA. BALL BEARING.
- 6) INSERT THE ASSEMBLED DELRON
 BEARING MOUNT AND PIN INTO
 MOUNT FITTING, WITH THE EXPOSED
 DOWEL PIN SHOWING OUTWARD.
 SNUG (2) 8-32 X 5/8 FHMS INTO
 DELRON BEARING MOUNT ENDS
 THROUGH LARGER MOUNT. THREAD A
 5/16-18 X 1 SS INTO END UNTIL BALL
 TOUCHES DELRON BEARING.



INSERT:
BALL
SPRING
BALL

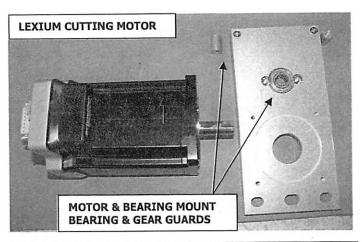
MOUNT
FOR
BEARING &
PIN
ASSEMBLY



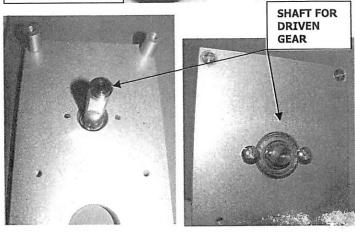


C15 CUTTING MOTOR & ASSEMBLY

- 1) PREPARE THE LEXIUM C15 CUTTING STEPPER MOTOR, MACHINED (PRM853.4) ASO2 BEFORE ADDING TO CUTTER.
- 2) ARBOR PRESS AN R8-ZZ ROLLER
 BALL BEARING (PRB038) RACK 21
 INTO THE COUNTERBORE OF THE
 MOTOR AND BEARING MOUNT (C15
 432.4) AS02. SECURE BEARING
 WITH (2) 10-32 X ½ THMS.
- 3) SECURE (2) GEAR GUARDS (C15
 461.4) RACK 24 THROUGH THE
 COUNTER SINKS ABOVE THE ROLLER
 BEARING. USE 10-32 X 1 FHMS.
- 4) REMOVE AND RETAIN (2) 10-32 X 3/16 SET SCREWS ON A CUTTING MOTOR GEAR 14MM BORE (C15 359.4) RACK 24. SLIDE THE CUTTING MOTOR GEAR OVER THE MOTOR SHAFT, HUB OUTWARD AND TEETH INWARD. ALIGN OUTER HUB WITH THE END OF THE SHAFT. ADD LOCTITE TO ONE SET SCREW AND TIGHTEN ON THE FLAT OF THE MOTOR SHAFT. DO NOT USE KEY. LOCTITE SECOND SET SCREW AND TIGHTEN ON ROUND OF MOTOR SHAFT.
- 5) PLACE AN EXTERNAL RETAINING RING (PRR191) LD05 ON THE *INNER* RETAINING RING GROOVE OF A SHAFT FOR DRIVEN GEAR (C15 434.4) RACK 24.
- 6) INSERT THE SNAP RING GROOVED END OF THE SHAFT FOR DRIVEN GEAR THROUGH THE ROLLER BEARING IN THE MOTOR AND BEARING MOUNT, FROM THE SIDE WITH THE GEAR GUARDS. ADD A SECOND EXTERNAL RETAINING RING (PRR191) TO THE SHAFT GROOVE ON THE OTHER SIDE OF THE ROLLER BEARING, HELD BY THE TRUSSHEADS. THERE IS 'PLAY' BETWEEN THE TWO SNAP RINGS.





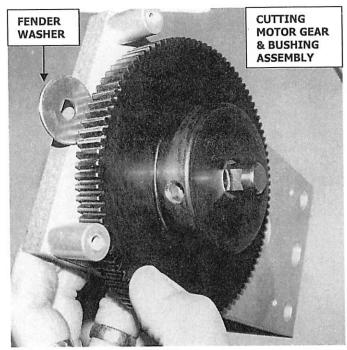


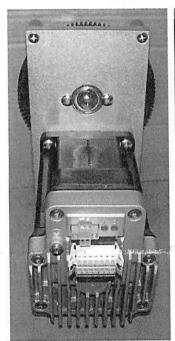
PUSH THE SHAFT FOR DRIVEN GEAR 7) THROUGH THE ROLLER BEARING, SO THE EXCESS SHAFT 'PLAY' IS ON THE TRUSSHEAD SIDE. MAINTAIN THIS SHAFT POSITION. SLIDE A CUTTING MOTOR GEAR AND BUSHING ASSEMBLY (C15 460.4) ASSE ONTO THE SHAFT FROM THE GEAR GUARD SIDE, TEETH INWARD, HUB OUT. MEASURE THE DISTANCE BETWEEN THE GEAR TEETH AND THE MOTOR AND BEARING MOUNT BY PLACING A 1/4 FENDER WASHER BETWEEN THEM. ALIGN SET SCREW THREADS OVER THE FLAT OF THE SHAFT. LOCTITE A 1/4-20 X 1/2 SET SCREW AND TIGHTEN THROUGH GEAR COUNTERBORE ONTO FLAT. LOCTITE A SECOND 1/4-20 X 1/2 SET SCREW AND TIGHTEN ON SHAFT ROUND. CONFIRM GEAR DOES NOT CONTACT MOTOR AND

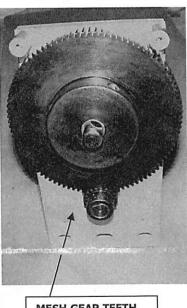
8) USE A LONG SCREWDRIVER TO SECURE THE LEXIUM STEPPER CUTTING MOTOR TO THE MOTOR AND BEARING MOUNT, ALIGNED WITH TERMINAL BLOCKS FACING INWARD ON BEARING MOUNT. MESH MOTOR SHAFT GEAR TEETH WITH LARGER GEAR TEETH ON THE MOTOR MOUNT. USE (4) 10-32 X 3/4 THMS, EACH WITH A #10 STAR WASHER AND LOCTITE.

BEARING MOUNT WHILE IN MOTION.

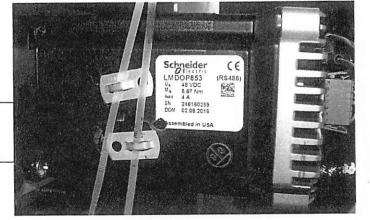
- 9) TURN CUTTING MOTOR ASSEMBLY SO
 THE UNDERSIDE SHOWS, FURTHER
 AWAY FROM THE TERMINAL BLOCKS,
 BY THE LABEL. USE PERMANENT
 BLACK LOCTITE GLUE TO SECURE (2)
 METAL CABLE TIE SCREW MOUNTS
 (PRC305) LOFT 6 PARALLEL WITH
 EACH OTHER. INSERT A CABLE TIE
 IN EACH, FOR USE LATER.
- 10) TEST GEAR ROTATION. BRUSH LITHIUM GREASE ON GEAR TEETH.







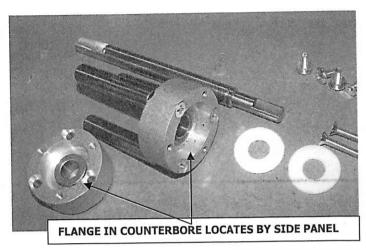
MESH GEAR TEETH BEFORE SECURING MOTOR TO MOUNT

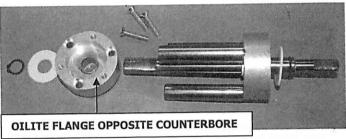


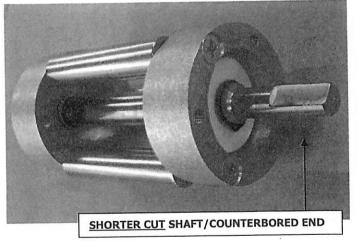
METAL CABLE TIE MOUNTS

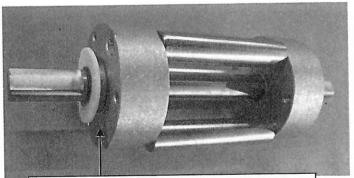
C15 INSIDE FEED ROLL LIFTER ASSEMBLY

- 1) ARBOR PRESS AN OILITE BEARING
 (PRB048B) RACK 8 INTO EACH OF (2)
 LIFTER SHAFT MOUNING BRACKETS
 (C15 062.4) RACK 24. THESE
 BRACKETS ARE UNIVERSAL. THE
 OILITE BEARING IS PRESSED INTO
 THE COUNTERBORE ON THE LIFTING
 SHAFT BRACKET THAT WILL BE
 CLOSEST TO THE SIDE PANEL. THE
 SECOND OILITE BEARING IS
 PRESSED FROM THE OPPOSITE SIDE,
 FLAT SIDE, ON THE LIFTER SHAFT
 MOUNTING BRACKET. THIS IS FOR
 THE SPROCKET SIDE.
- 2) SECURE (3) SPACER BAR SHAFTS
 (C15 063.4) RACK 24 BY INSERTING
 10-32 X 1 FHMS WITH LOCTITE ON
 THREAD ENDS, INTO THE
 COUTERBORED SIDE. THE SHAFTS
 LOCATE ON THE FLAT SIDE OF THE
 LIFTER SHAFT MOUNTING BRACKET.
- 3) INSERT THE SHORTER FLAT CUT END OF AN INSIDE FEED ROLL LIFTER SHAFT (C15 061.4) RACK 24.
 THROUGH THE FLAT SIDE OF A LIFTER SHAFT MOUNTING BRACKET. SLIDE A WHITE TEFLON WASHER (PRW337) RACK 8 OVER THE COUNTERBORED END AND SECURE WITH A RETAINING RING (PRR191) LD05.
- 4) SLIDE THE SECOND LIFTER SHAFT MOUNTING BRACKET ONTO THE INSIDE FEED ROLL LIFTER SHAFT, WITH THE FLAT AND FLANGE END OUTWARD. SECURE TO SPACER BAR SHAFTS WITH (3) 10-32 X 1 FHMS, WITH LOCTITE. PLACE ANOTHER WHITE TEFLON WASHER NEXT TO THE FLANGE AND SECURE WITH A SECOND RETAINING RING.





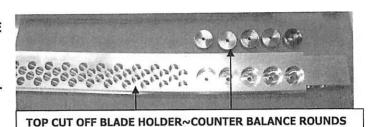


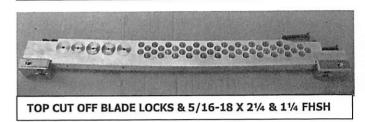


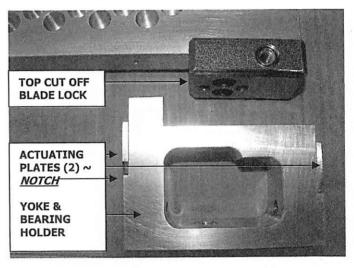
FLANGE OUTWARD ON <u>DEEPER CUT</u> SHAFT END

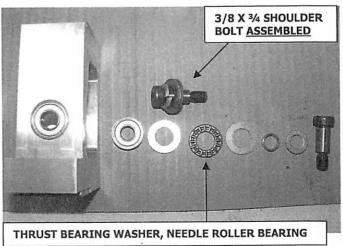
C15 TOP CUT OFF BLADE ASSEMBLY

- 1) PLACE A TOP CUT OFF BLADE HOLDER (C15 425.4) AS02, WITH THE MULTIPLE HOLES FACING UPWARD. THE LARGER HOLES WILL BE FILLED WITH (5) BLADE HOLDER COUNTER BALANCE ROUNDS (C15 267.4) RACK 24. INSERT THE COUNTER BALANCE ROUNDS INTO THE LARGER HOLES. LOCTITE THE THREADS OF (5) 10-32 X 3/4 FHSH AND SECURE THE COUNTER BALANCE ROUNDS.
- 2) SECURE TO BOTH ENDS OF THE TOP CUT OFF BLADE HOLDER A TOP CUT OFF BLADE LOCK (C15 413.4) RACK 24. BE CERTAIN THE CHAMFER IS SMOOTH ON ALL EDGES. ORIENT WITH THE LARGER HOLES FACING INWARD. LOCTITE ALL THREADS AND USE (3) 5/16-18 X 2 ¼ FHSH THROUGH THE THICKER PORTION OF THE BLADE HOLDER AND A 5/16-18 X 1 ¼ FHSH ON SHORTER END.
- 3) FROM RACK 24 SECURE (2)
 ACTUATING PLATES (C15 419.4) TO A
 YOKE AND BEARING HOLDER (C15
 218.4). USE (4) 10-32 X ½ SHCS
 THOUGH THE COUNTERSINKS. THE
 NOTCHED END FACES THE OFFSET
 PORTIONS.
- 4) PRESS (2) R6-ZZ ROLLER BEARINGS (PRB075) RACK 12 FLUSH INTO THE YOKE AND BEARING COUNTERBORES.
- 5) GATHER FROM: LOFT 6 (2) THRUST NEEDLE ROLLER BEARINGS (PRB267) AND (4) THRUST BEARING WASHERS (PRB268). RACK 24 (2) THRUST BEARING SPACERS (C15 046.4). AS12 (2) 3/8 SPLIT LOCK WASHERS (.375KKM01) AND (2) 3/8 X 3/4 SHOULDER BOLTS (.375IAC12). LIBERALLY BRUSH LITHIUM GREASE ON BOTH SIDES OF THE THRUST NEEDLE ROLLER BEARINGS. PLACE IN ORDER ON EACH SHOULDER BOLT: A







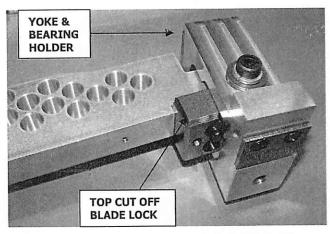


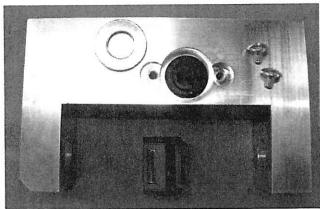
3/8 SPLIT LOCK WASHER, A THRUST BEARING SPACER, THRUST BEARING WASHER, LUBRICATED NEEDLE ROLLER BEARING AND ANOTHER THRUST BEARING WASHER. SLIDE NEEDLE BEARING AND THRUST WASHERS OVER THRUST BEARING SPACER. SET ASIDE.

- 6) SLIDE THE YOKE AND BEARING
 HOLDER OVER THE TOP CUT OFF BLADE
 LOCK, ON SMALLER HOLE END AS
 PICTURED. ALIGN ROLLER BEARING
 OVER THREADS. THREAD THE 3/8 X 3/4
 SHOULDER BOLT ASSEMBLY INTO
 COUNTERBORE ON CUT OFF BLADE
 LOCK. **REPEAT PROCEDURE ON
 REVERSE SIDE OF THE YOKE AND
 BEARING HOLDER.
- 7) FROM RACK 24 PREPARE A YOKE AND BEARING HOLDER MOUNT (C15 217.4) BY INSERTING A SELF ALIGNING BALL BEARING (PRB266) INTO THE COUNTERBORED OPENING. **LEAVE THE SLEEVE IN THE SELF ALIGNING BEARING TEMPORARILY, TO PREVENT BALLS FROM DISLODGING. PLACE A ½ FLAT WASHER SAE OVER THE SELF ALIGNING BEARING AND SECURE WITH (2) 10-32 X ¼ THMS.
- 8) ARBOR PRESS A ½ X 5/8 X ¾ FLANGED OILITE BEARING (PRB265) RACK 24

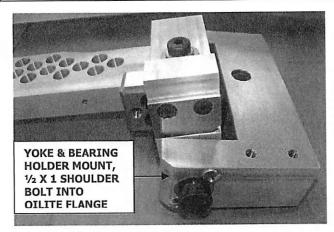
 FLUSH INTO BOTH ENDS OF THE YOKE AND BEARING HOLDER MOUNT.

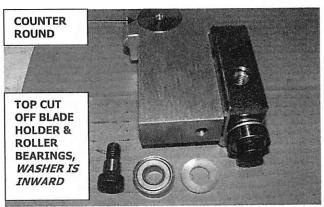
 CAPTURE THE OILITE BEARINGS WITH (2) 10-32 X ¼ THMS DIAGONALLY.
- 9) ALIGN THE ASSEMBLED YOKE AND BEARING HOLDER MOUNT WITH THE CHAMFERED CORNER INWARD ON TOP CUT OFF BLADE LOCK SIDE. INSERT A ½ X 1 SHOULDER BOLT THROUGH OILITE BEARINGS THREADING INTO YOKE AND BEARING HOLDER. THERE IS PLAY SO YOKE AND BEARING HOLDER MOUNT MOVES TO AND FRO.
- 10) PLACE AN R6-ZZ ROLLER BEARING
 (PRB075) RACK 12 ON EACH OF (2) 3/8
 X 3/8 SHOULDER BOLTS. ADD A 3/8
 FLAT WASHER BY EACH ROLLER
 BEARING. LOCTITE AND THREAD INTO
 END OF TOP CUT OFF BLADE HOLDER





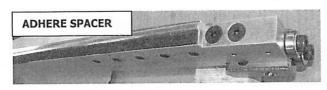
YOKE & BEARING HOLDER MOUNT & SELF ALIGNING BRG

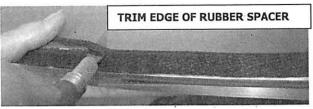


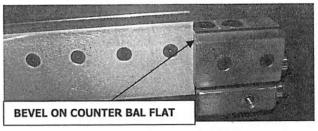


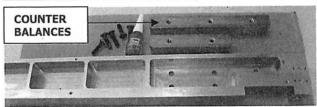
BY COUNTER ROUNDS; ONE IN TOP CUT OFF BLADE HOLDER AND ONE IN TOP CUT OFF BLADE LOCK. <u>DO NOT</u> PINCH WASHER WHEN TIGHTENING.

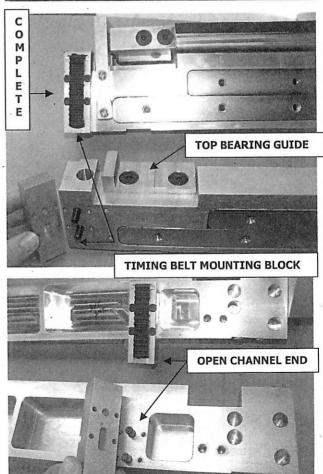
- 11) ADHERE A RUBBER, STICKY BACK SPACER FOR TOP CUT OFF BLADE HOLDER (C15 471.4) RACK 24 TO TOP CUT OFF BLADE HOLDER, FLUSH WITH OFFSET BY THE (2) FHSH. ADHERE ALONG BLADE HOLDER OUTER EDGE. THE EDGE DECREASES IN WIDTH AS SPACER IS ADDED. TRIM EXCESS RUBBER SO SPACER IS FLUSH WITH OUTER EDGE OF THE BLADE HOLDER. GENTLY SAND RUBBER ALONG EDGE.
- 12) SECURE A BLADE HOLDER COUNTER
 BALANCE FLAT (C15 268.4) RACK 24,
 BEVELED EDGE TOWARD OFFSET, BY
 ROLLER END. USE (2) 10-32 X 3/4 FHSH.
- 13) THE TOP CUT OFF BLADE MOUNTING BAR (C15 215.4) AS02 HAS A BLADE MOUNTING BAR COUNTER BALANCE SMALL (C15 266.4) RACK 24 AND A BLADE MOUNTING BAR COUNTER BALANCE LARGE (C15 265.4) RACK 24. PLACE COUNTER BALANCES IN THE PICTURED OPENINGS. SECURE FROM BACK WITH (5) 5/16-18 X 1 ½ FHSH. USE LOCTITE ON THREADS.
- 14) PRESS (4) 1/4 X 3/4 DOWEL PINS FULLY INTO TOP CUT OFF BLADE MOUNTING BAR ON COUNTER BALANCE SIDE, (2) AT EACH END. PLACE A TOP BEARING GUIDE (C15 415.4) RACK 24 IN THE RECESSED END BY COUNTER BALANCE, COUNTERSINKS UPWARD. SECURE WITH (2) 5/16-18 X 3/4 FHSH, LOCTITE.
- 15) ALIGN A TIMING BELT MOUNTING BLOCK (C15 464.4) RACK 24 OVER THE DOWEL PINS BY COUNTER BALANCE. THE CHANNEL FITS OVER THE DOWEL PIN BY LARGE COUNTER BALANCE AND FLUSH WITH EDGE. START (4) 8-32 X 3/4 SHCS IN COUNTERBORES, TIGHTEN.
- 16) A SECOND TIMING BELT MOUNTING
 BLOCK FITS OVER (2) DOWEL PINS ON
 THE OTHER END OF THE TOP CUT OFF
 BLADE MOUNTING BAR. MOUNTING





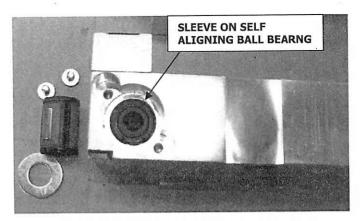




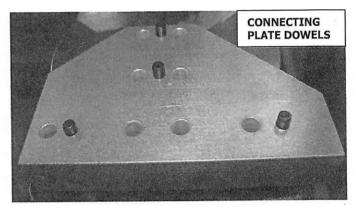


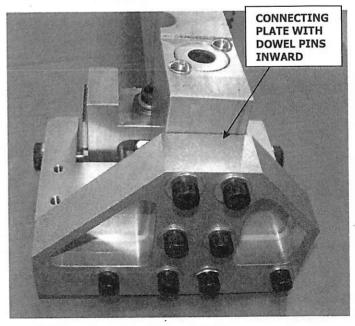
BLOCK CHANNEL LOCATES CLOSER TO THE EDGE OF THE MOUNTING BAR AND TIMING MOUNTING BLOCK IS OFFSET. USE (4) 8-32 X 3/4 SHCS TO SECURE.

- 17) PLACE THE END COUNTERBORES
 LOCATED BY THE 10-32 THREADS
 UPWARD AND INSERT A SELF
 ALIGNING BALL BEARINGS (PRB266)
 RACK 24 INTO EACH COUNTERBORE.
 LEAVE THE INNER CARDBOARD SLEEVE
 IN THE BEARING. PLACE A ½ FLAT
 WASHER SAE OVER THE BEARING AND
 SECURE THE WASHER WITH (2) 10-32
 X ¼ FHMS. USE THE SAME HARDWARE
 ON BOTH ENDS.
- 18) UNITE THE BOTTOM CUT OFF BLADE HOLDER TO BOTTOM CUT OFF BLADE HOLDER MOUNT. PLACE ASSEMBLED BOTTOM CUT OFF BLADE HOLDER WITH COUNTER BALANCE ROUNDS UPWARD. SET THE BOTTOM CUT OFF BLADE HOLDER MOUNT OVER THE TOP CUT OFF BLADE HOLDER, ALIGNING ENDS. THE SELF ALIGNING BEARINGS ARE UPWARD.
- 19) ARBOR PRESS (4) 1/4 X 3/4 DOWEL PINS INTO THE (4) SIDE OPENINGS OF A CONNECTING PLATE (C15 216.4) RACK 24 WITH 1/4" TO 3/8" OF THE DOWEL SHOWING.
- 20) ALIGN THE CONNECTING PLATE WITH THE MORE DISTANT DOWEL PINS FITTING INTO THE BOTTOM CUT OFF BLADE HOLDER MOUNT OPENINGS AND THE CLOSER DOWEL PINS FITTING INTO THE TOP CUT OFF BLADE HOLDER MOUNT OPENINGS.
- 21) WITH LOCTITE ON THE THREADS, <u>BEGIN</u> (4) 5/16-18 X 1 ½ SHCS, EACH WITH A 5/16 FLAT WASHER THROUGH THE LOWER, IN-LINE, OPENINGS OF THE CONNECTING PLATE. START THE REMAINING (4) 5/16-18 X 1 ½ SHCS WITH 5/16 WASHERS. TIGHTEN ALL SOCKETHEADS AFTER THEY ARE STARTED.
- 22) THREAD A #8 HEX NUT ALL THE WAY UP AN 8-32 X 1 ½ SHCS. START THIS



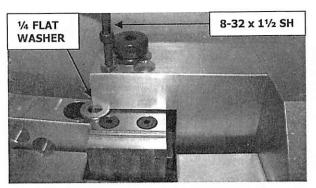


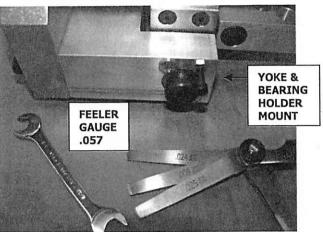


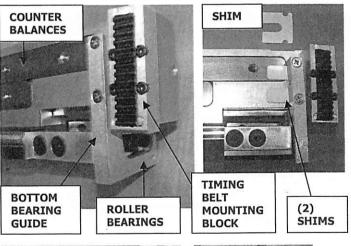


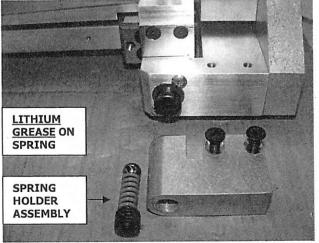
SCREW INTO THE YOKE AND BEARING HOLDER MOUNT BY THE TRUSSHEADS AND SHOULDER BOLT, ON THE SAME SIDE AS THE TIMING BELT SPACERS AND RUBBER SPACER FOR TOP CUT OFF BLADE HOLDER. THE THREADS EXTEND PAST THE INNER YOKE AND BEARING HOLDER MOUNT BY .057. MEASURE BY SLIDING A 1/4 FLAT WASHER BETWEEN PARTS OR USE A FEELER GAUGE COMBINING .024, .025 AND .008 TO EQUAL .057. HOLD THE (3) FEELERS AND THREAD UNTIL .057 IS REACHED ORE REMOVE WASHER WHEN SNUG. TIGHTEN HEX NUT. THE .057 DISTANCE IS A STOP.

- 23) HOLD THE TOP CUT OFF BLADE HOLDER MOUNT SO LONG AND SHORT COUNTER BALANCE FACES YOU. ALIGN BOTTOM BEARING GUIDE (C15 421.4) RACK 24 BETWEEN COUNTER BALANCE AND THE TIMING BELT MOUNTING BLOCK, WITH BEND INWARD AND ROLLER BEARINGS RESTING IN BOTTOM BEARING GUIDE CHANNEL. SECURE BOTTOM BEARING GUIDE WITH (2) 10-32 X 1 FHMS THROUGH COUNTERSINKS LOCTITE THREADS. AFTER TESTING, IF NEEDED ADD (2) SHIMS (C15 474.4) RACK 24 ALIGNED WITH THREADS.
- 24) ON THE OPPOSITE END OF THE TOP CUT OFF BLADE HOLDER ASSEMBLY, THE RIGHT SIDE REAR, SECURE A SPRING HOLDER (C15 420.4) RACK 24 USING (2) 1/4-20 X 11/2 FHSH.
- 25) INSERT A ½" DIAMETER BALL
 BEARING (PRB262) LOFT 6 INTO THE
 SPRING HOLDER OPENING. SPREAD
 LITHIUM GREASE ON A HEAFY ORANGE
 SPRING (LC25 031.4) LD05 AND PLACE
 OVER BALL BEARING. SECURE BALL
 BEARING AND SPRING WITH A 5/8-11
 X 5/8 SH SET SCREW (.625MAA10)
 AS12. THE SET SCREW TENSION ON
 THE ORANGE SPRING IS ADJUSTED
 AFTER THE TOP CUT OFF BLADE
 HOLDER IS INSTALLED IN CHASSIS.
- 26) ON THE REAR OF THE RIGHT SIDE OF THE TOP CUT OFF BLADE HOLDER ASSEMBLY, LOCATED ABOVE THE



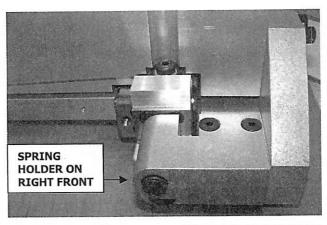


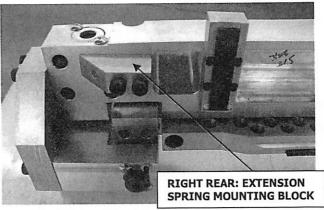


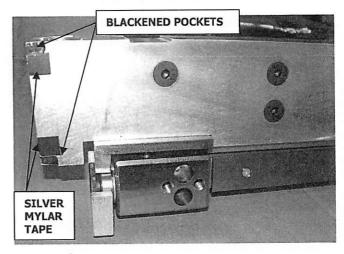


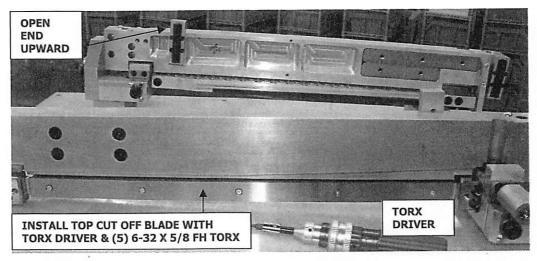
SHOULDER BOLT IN THE OILITE BEARING, SECURE AN EXTENSION SPRING MOUNTING BLOCK (C15 429.4) RACK 24. ORIENT THE POINTED END OF THE EXTENSION SPRING MOUNTING BLOCK OUTWARD. SECURE WITH (2) 5/16-18 X 1 ½ SHCS.

- **VERY CAREFULLY SECURE THE CUT OFF** 27) BLADE TOP (C15 402.4) AS02 TO THE FRONT THREADS OF THE TOP CUT OFF BLADE ASSEMBLY, WITH THE SHARP ANGLE DOWNWARD. START (5) 6-32 X 5/8 FH TORX (.138BAB10) BEGINNING WITH THE MIDDLE THREADS. BEGIN ALL THREADS. USE THE BLADE'S WEIGHT TO LEVEL THE CUTTING BLADE. WITH A TORX DRIVER, TIGHTEN THE CENTER SCREW. TIGHTEN SCREWS ON EITHER END OF CENTER AND WORK OUTWARD HOLDING THE BLADE TIGHT TO BLADE HOLDER AS YOU THREAD IN.
- 28) CUT AND ADHERE TO THE FRONT, LEFT TOP AND BOTTOM ENDS OF THE CUT OFF BLADE HOLDER, FLUSH BELOW THE <u>BLACKENED</u> CUT OUT POCKET CORNERS, (2) ½" X ½" SQUARES OF ½" SILVER MYLAR TAPE (MRO-215.4) RACK 24. THIS IS ON THE END BY THE ROLLER BEARINGS.
- 29) SET TOP CUT OFF BLADE HOLDER ASSEMBLY ASIDE, IN A SAFE LOCATION, UNTIL INSTALLATION.



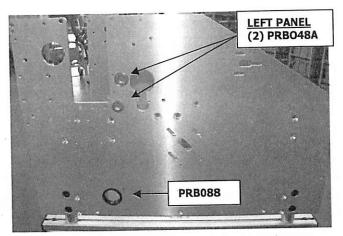


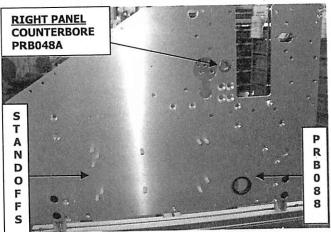


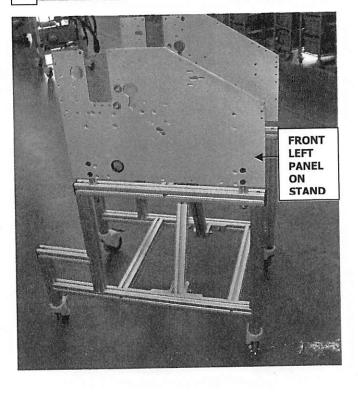


C15 SIDE PANEL & CHASSIS ASSEMBLY

- 1) SOME SIDE PANEL ASSEMBLY CAN BE PERFORMED BEFORE SIDE PANELS ARE PLACED ON THE STAND. TO ORIENT THE SIDE PANELS, THE LOWER PORTION FACES THE FRONT OF THE C15. UNLIKE MOST STANDS, THE SUPPORTIVE LEG BRACES FACE THE REAR OF THE C15.
- 2) THE LEFT SIDE PANEL (C15 450.4)
 AS01 MOTOR SIDE HAS (2) 3/16
 WORKED OILITE BEARINGS (PRB048A)
 RACK 14. THE ONE ON TOP IS
 PRESSED INTO A COUNTERBORE.
 BOTH HAVE THE FLANGE OUTWARD.
 BOTH OILITE BEARINGS ARE FLUSH
 INWARD ON THE SIDE PANEL.
- 3) INSERT A SNAP BUSHING (PRB088) AS09 IN LOWER LEFT SIDE PANEL, FLANGE OUTWARD.
- 4) PRESS ANOTHER OILITE BEARING (PRB048A) RACK 14 INTO OUTER RIGHT SIDE PANEL (C15 349.4) AS01 WITH FLANGE IN COUNTERBORE.
- 5) INSERT A SNAP BUSHING (PRB088) AS09 IN BOTH LOWER SIDE PANELS FOR WIRES, FLANGE OUTWARD.
- 6) FROM THE INNER RIGHT SIDE PANEL, THROUGH THE SMALL COUNTERSINKS, INSERT (11) 4-40 X 3/8 FHMS AND ON THE OUTER SIDE PANEL THREAD ON (11) 5/8 X 1/4 HEX NYLON STANDOFF (LC25 010.4) LD09. TIGHTEN STANDOFFS WITH SCREWDRIVER.
- 7) SECURE (2) FEET MOUNTING STAFT EXTENSIONS (LC38 048.4) AS09 TO EACH LOWER SIDE PANEL THROUGH OUTER COUNTERSINKS. USE (8) 5/16-18 X ³/₄ FHSHCS (.312BAA12).
- 8) PLACE FEET EXTENSIONS OVER THE STAND OPENINGS. LOOSELY SECURE WITH (4) ½-13 X 2 ½ HEX BOLTS (.500HDA40), EACH WITH A ½ FLAT WASHER SAE.







(16)

PANELS SECURE BOTH ROLLER BEARINS WITH (3) 6-32 X 3/8 THMS.

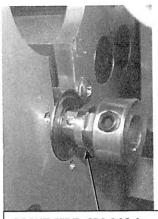
PUSH RUBBER ROLL FLUSH TO THE RIGHT SIDE PANEL. ON THE RIGHT JOURNAL ADD A TOP RUBBER ROLL PULLEY SPACER (C30 046.4) RACK 11. SECURE ON JOURNAL FLAT WITH A 3/8 SHAFT COLLAR (PRC095) LD03.

- 17) ON LEFT SIDE BOTTOM RUBBER ROLL
 JOURNAL SLIDE A TOP RUBBER ROLL
 PULLEY SPACER (C30 046.4) RACK 11.
 TAP A #303 WOODRUFF KEY (PRK155)
 RACK 12 INTO KEYWAY, BY SPACER.
- 18) PLACE A RUBBER ROLL DRIVE PULLEY (PRG002) RACK 12 OVER THE KEY **

 BUT NOT TOUCHING THE TRUSSHEADS.

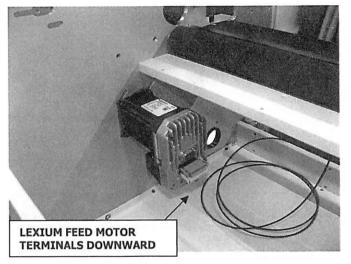
 TIGHTEN THE (2) 8-32 X 3/8 SET

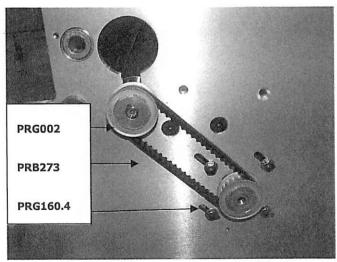
 SCREWS ON THE PULLEY.
- 19) INSERT (4) 10-32 X 3/4 BHCS THROUGH CLEARANCE HOLES ON A LEXIUM C15 FEED MOTOR (PRM573) ASO2. WITH THE TERMINAL BLOCK DOWNWARD, THE MOTOR SHAFT EXITS THE LEFT SIDE PANEL. HOLD MOTOR UPWARD IN THE CHANNELS AND PLACE A #10 FLAT WASHER ON THE BHCS THREADS, SNUG ON A #10 KEPS HEX NUT. MOTOR WILL BE ADJUSTED LATER.
- 20) FROM RACK 24 PLACE A XL URETHANE TIMING BELT (PRB273) OVER THE RUBBER ROLL PULLEY AND OVER A 20T REAMED TIMING BELT PULLEY (PRG160.4). SLIDE THE TIMING BELT PULLEY OVER THE FEED MOTOR SHAFT. MEASURE EQUAL DISTANCE OF PULLEYS FROM SIDE PANEL AND TIGHTEN TIMING BELT BY DROPPING THE MOTOR. NEEDS TO BE SNUG.
 - ASSEMBLE A BOTTOM CUT OFF BLADE MOUNTING BAR (C15 110.4) ASO2 BEFORE INSETING BETWEEN SIDE PANELS. ORIENT BOTTOM CUT OFF BLADE MTG BAR WITH THE (5) THREADED ENDS TO THE RIGHT SIDE PANEL, (3) THREADS ARE DOWNWARD. ASSEMBLE AS FOLLOWS.
- 22) ARBOR PRESS (2) ¼ X ¾ DOWEL PINS INTO THE UPPER ENDS OF THE BOTTOM CUT OFF BLADE MTG BAR.

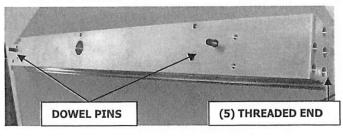








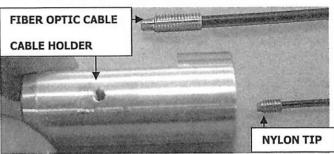


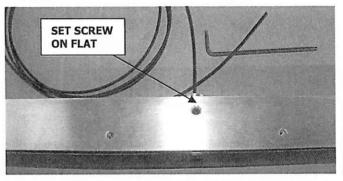


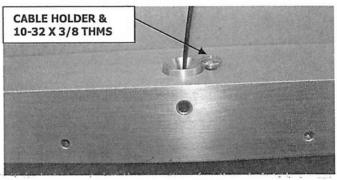
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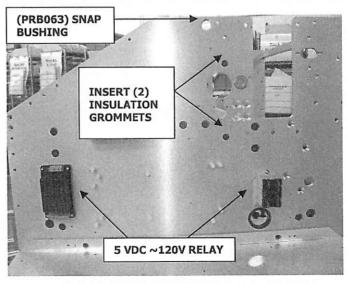
- 23) PLACE A BOTTOM MATERIAL GUIDE (C15 296.4) AS02, COUNTERSINKS UPWARD, OVER CUT OFF BLADE MTG BAR. THE BEVELED EDGE FACES THE FRONT. LOOSELY SECURE WITH (5) 6-32 X 3/8 FHMS. BOTTOM MATERIAL GUIDE MUST BE FLAT ON BAR.
- 24) ALIGN THE FLATTENED SECTION OF THE THREADS ON AN OMRON FIBER OPTIC CABLE (PRC277) RACK 12 UNDER THE THREADED PORTION OF A FIBER OPTIC CABLE HOLDER (C15 278.4) RACK 24. HOLD IN PLACE AND SECURE WITH A NYLON TIP 4-40 X 3/16 SET SCREW (.112MAA03ST).
- 25) BEGIN THREADING A 1/4-20 X 1/2 SS INTO THE REAR BOTTOM CUT OFF BLADE MTG BAR. INSERT THE FIBER OPTIC CABLE HOLDER FLUSH WITH MATERIAL GUIDE, THIS WILL BE JUST **UNDER TEFLON. HOLD CABLE HOLDER** FLAT SECTION UNDER THE SET SCREW. SECURE CABLE HOLDER WITH SET SCREW AND ADD A 10-32 X 3/8 THMS TO SUPPORT EXPOSED CABLE HOLDER. **TIGHTEN ALL (5) SCREWS ON BOTTOM** MATERIAL GUIDE. GUIDE MUST BE FLAT AND FLUSH WITH REAR OF BOTTOM BLADE HOLDER MTG BAR. FILE IF NECESSARY.
- 26) FROM THE UPPER, INNER RIGHT SIDE PANEL, INSERT A SNAP BUSHING (PRB063) RACK 8 WITH THE FLANGE ON THE INNER SIDE PANEL.
- 27) INSERT (2) INSULATION GROMMETS
 (PRB105) RACK 12 INTO RIGHT SIDE
 PANEL. WORK GROMMETS THROUGH
 HOLES WITH A SMALL SCREWDRIVER,
 SO A GROMMET FLANGE IS ON BOTH
 SIDES OF THE PANEL.
- 28) SECURE A 120V COIL RELAY (PRR150)
 RACK 12 TO THE LOWER RIGHT SIDE
 PANEL, THE (4) TERMINAL POSTS FACE
 RIGHT/REAR. USE (2) 8-32 X 1/4 RHMS.
- 29) SECURE A 5VDC POWER SUPPLY (PRC0325) RACK 24 TO FRONT, RIGHT SIDE PANEL. ORIENT SMALLER, GREEN TERMINAL BLOCK UPWARD. USE (4) 4-40 X ½ SHCS.



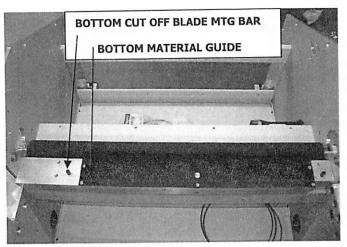


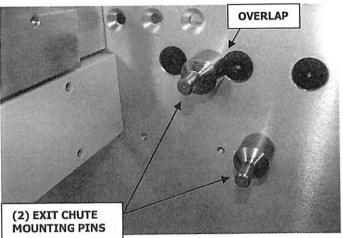


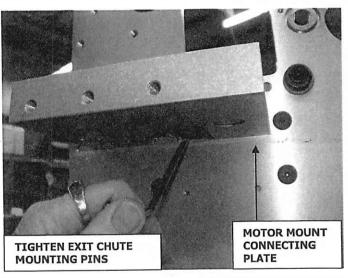


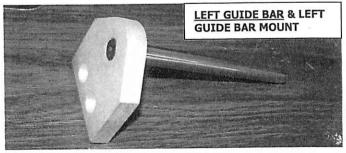


- OUT OFF BLADE MOUNTING BAR
 ASSEMBLY BETWEEN SIDE PANELS.
 THIS MAY REQUIRE TWO PEOPLE. DO
 NOT DAMAGE THE FIBER OPTIC
 CABLE!! SECURE ASSEMBLY WITH (4)
 5/16 X 1 1/4 FHSH ON THE RIGHT
 PANEL, THE LOWER REAR THREADS
 ARE NOT USED, AND ADD A 1/2 X 5/8
 SHOULDER BOLT, THROUGH THE
 OILITE BUSHING ON THE LEFT PANEL.
- FROM THE REAR, INSERT (2) 1/4-20 X 3/4
 FHSH THROUGH THE OUTER LEFT SIDE
 PANEL COUNTERSINKS. ON THE
 LOWER THREADS TIGHTEN AN EXIT
 CHUTE MOUNTING PIN (C15 150.0)
 RACK 24. ON THE UPPER THREAD
 LOOSELY SNUG ANOTHER EXIT CHUTE
 MOUNTING PIN. FROM THE INNER
 LEFT PANEL INSERT (3) 5/16-18 X 1
 FHSH. THE INNER PIN OVERLAPS
 THE
 MIDDLE FLATHEAD.
- 32) SECURE THE MOTOR MOUNT
 CONNECTING PLATE (C15 433.4) RACK
 24 TO THE OUTER LEFT SIDE PANEL,
 ORIENTED WITH HOLE TO THE FRONT
 AND NOTCH DOWNWARD. USE (3)
 5/16-18 X 1 FHSH FROM THE INNER
 COUNTERSINKS.
- 33) TIGHTEN THE OVERLAPPED EXIT CHUTE MOUNTING PIN USING AN ALLEN WRENCH THROUGH THE MOTOR MOUNT CONNECTING PLATE UNDERSIDE NOTCH.
- 34) ADD (2) EXIT CHUTE MOUNTING PINS
 TO THE INNER RIGHT SIDE PANEL,
 DIRECTLY ACROSS FROM THE LEFT
 SIDE EXIT CHUTE MOUNTING PINS.
 USE 1/4-20 X 3/4 FHSH TO SECURE.
- 35) PLACE A ¼-20 X 1 FHSH IN THE COUNTERSUNK POINTED END OF A BOTTOM LEFT GUIDE BAR MOUNT (C15 230.4) RACK 24. THREAD A LEFT GUIDE BAR (C15 231.4) RACK 24 ONTO THE MOUNT AND TIGHTEN.
- 36) FROM RACK 24 PLACE A 1/4-20 X 1
 BHCS IN THE COUNTERBORED
 CHANNEL OF A BOTTOM RIGHT GUIDE
 BAR MOUNT (C15 233.4), EITHER SIDE.

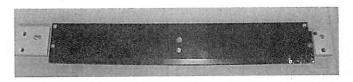


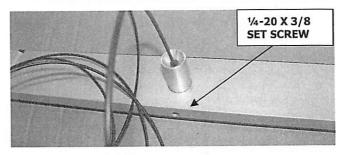


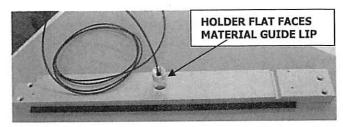


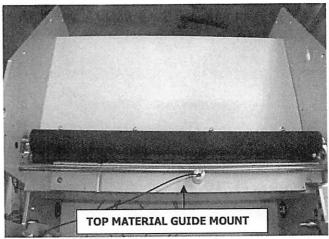


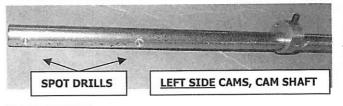
- 42) PREPARE A TOP MATERIAL GUIDE
 MOUNT (C15 397.4) ASO1 BY
 SECURING A TEFLON TOP MATERIAL
 GUIDE (C15 396.4) ASO2 WITH (5) 632 X 3/8 FHMS. FLATHEADS MUST BE
 BELOW THE TOP MATERIAL GUIDE, SO
 CUTTING MATERIAL DOESN'T CATCH.
 THE COUNTERSINKS CAN BE OPENED
 BY CAREFULLY REMOVING TEFLON.
- 43) SECURE REMAINING FIBER OPTIC CABLE IN A FIBER OPTIC CABLE HOLDER (C15 278.4) RACK 24 WITH A NYLON TIP 4-40 X 3/16 SET SCREW, SNUG ON FLAT OF CABLE THREADS.
- 44) INSERT THE FIBER OPTIC CABLE
 HOLDER THROUGH THE COUNTERSUNK
 SIDE OF THE TOP MATERIAL GUIDE
 MOUNT, FITTING JUST UNDER THE
 TEFLON TOP MATERIAL GUIDE
 OPENING. THE FLAT SECTION OF THE
 CABLE HOLDER FACES THE FRONT, TO
 ACCOMMODATE THE CAM SHAFT.
 SECURE THE CABLE HOLDER WITH A
 1/4-20 X 3/8 SET SCREW ON THE CABLE
 HOLDER ROUND PORTION.
- 45) PLACE THE TOP MATERIAL GUIDE MOUNT OVER THE DOWEL PINS ON THE BOTTOM MATERIAL GUIDE MOUNT, WITH THE TEFLON TOP MATERIAL GUIDE DOWNWARD AND THE LIP FORWARD. SECURE THE TOP MATERIAL GUIDE MOUNT ON BOTH ENDS WITH (4) 10-32 X 11/4 FHMS.
- 46) START A 10-32 X 3/4 SET SCREW IN (2) FEED ROLLER LIFT CAMS (C15 133.4) RACK 24. ORIENT DEEPER RECESSED OPENING ON A CAM SHAFT (C15 057.4) AS02 UPWARD, TO THE LEFT WITH (2) SPOT DRILLS FACING YOU. *THE CAM SHAFT HANDLE IS ON C15 LEFT SIDE. SLIDE FEED ROLLER LIFT CAM OVER LEFT SIDE SHAFT, ORIENTATION CAM HOLE UPWARD AND AWAY FROM YOU. TIGHTEN SET SCREW INTO CAM SHAFT.
- 47) INSERT THE CAM SHAFT FROM THE
 LEFT SIDE PANEL, THROUGH THE
 COUNTERBORED OILITE BEARING,
 CONTINUING IN FRONT OF FLAT SIDE
 ON FIBER OPTIC HOLDER AND FINALLY
 THROUGH THE RIGHT SIDE PANEL
 OILITE BEARING. SECURE RIGHT SIDE

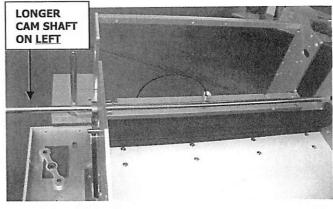




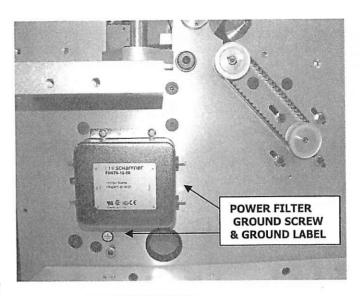


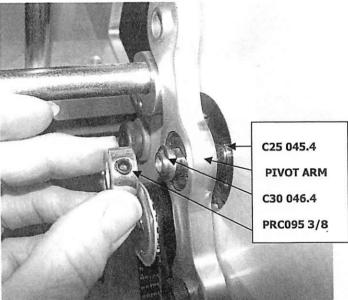


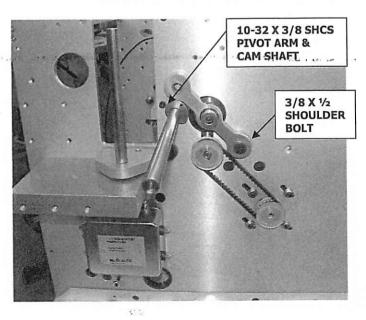




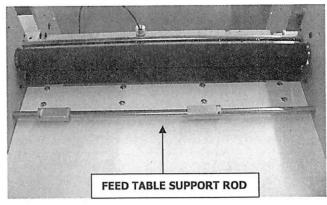
- FEED ROLLER LIFT CAM TO THE CAM SHAFT HOLE WITH A 10-32 X 3/4 SET SCREWS. ADD ANTI-SEIZE TO CAMS.
- 48) PLACE A CLEAN TOP RUBBER ROLL (C15 043.4) AS02 OVER THE BOTTOM RUBBER ROLL, ALIGN ROLLS.
- 49) SECURE A POWER FILTER (PRF142)
 AS08 TO THE OUTER LEFT SIDE PANEL
 BELOW THE MOTOR MOUNT
 CONNECTING PLATE. ORIENT THE (3)
 TERMINAL POSTS TO THE REAR. USE
 (4) 10-32 X 1/4 RHMS WITH (2)
 DIAGONAL #10 STAR WASHERS.
- 50) FROM INNER LEFT SIDE PANEL INSERT A 10-32 X 1 BHSH WITH A #10 STAR WASHER AS A GROUND SCREW. ON THE OUTER SIDE PANEL ADD ANOTHER #10 STAR WASHER AND LOOSELY THREAD A #10 KEPS HEX NUT.
- 51) ADHERE A GROUND SYMBOL (LAB06) LD09 ABOVE THE GROUND SCREW.
- 52) SLIDE A TOP RUBBER ROLL SPACER (C25 045.4) RACK 11 ONTO BOTH TOP RUBBER ROLL JOURNALS, FLUSH INWARD. CENTER RUBBER ROLLS.
- 53) SLIDE THE ASSEMBLED RUBBER ROLL PIVOT ARM ROLLER BEARING OVER BOTH JOURNALS, THE <u>SNAP RING IS</u> <u>OUTWARD</u>. SECURE LOWER FRONT SECTION OF PIVOT ARMS WITH A 3/8 X ½ SHOULDER BOLT (375IAC08) THREADED INTO THE SIDE PANEL.
- 54) ADD A TOP RUBBER ROLL PULLEY
 SPACER (C30 046.4) RACK 11 TO EACH
 JOURNAL BY OUTER PIVOT ARM
 ROLLER BEARING.
- 55) CENTER RUBBER ROLL. SECURE ENDS WITH 3/8 SHAFT COLLAR (PRC095) LD03 ON JOURNAL FLAT. THE SHAFT COLLAR EXTENDS PAST JOURNAL END, SET SCREW IS AT ENDS. THERE IS NO PLAY IN TOP RUBBER ROLL.
- 56) FROM OUTER PANEL THREAD A 10-32 X 3/8 SHCS BEHIND BOTH CAM SHAFT OILITE BEARINGS, BELOW THE REAR PIVOT ARM, AS A PIVOT ARM STOP.

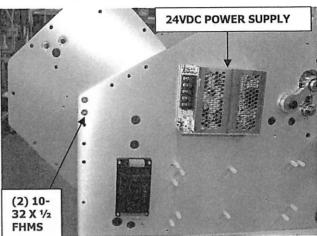


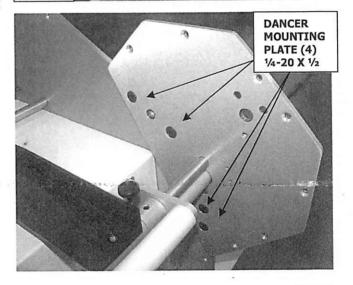


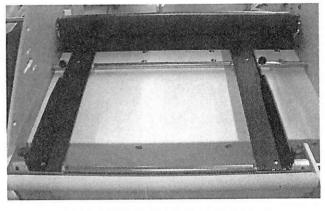


- 57) SLIDE (2) FEED TABLE GUIDE BLOCKS (C15 100.4) RACK 24 ONTO A FEED TABLE SUPPORT ROD (C15 196.4) AS02, WITH GUIDE BLOCK FLATS INWARD/ UPWARD. SECURE OVER TOP MOTOR COVER USE 10-32 X ½ FHMS WITH LOCTITE.
- 58) SECURE A 24VDC POWER SUPPLY
 (PRC0323) RACK 13 TO THE OUTER
 RIGHT SIDE PANEL ABOVE THE
 STANDOFFS, WITH TERMINALS TO
 LEFT/FRONT. USE (2) 6-32 X 3/8 THMS
 AT DIAGONAL CORNERS.
- TABLE ASSEMBLY BETWEEN INNER
 SIDE PANELS ALIGNING THE DANCER
 MOUNTING PLATE AND FEED TABLE
 SUPPORT ROD BETWEEN SIDE PANELS.
 ON THE RIGHT START THREADS OF (4)
 1/4-20 X 1/2 FHSH. THE ROD AND IDLER
 TUBE MOUNTING POST HAVE TO BE IN
 THE DANCER MOUNTING PLATE TO FIT
 BETWEEN PANELS.
- 60) START (4) 10-32 X ½ FHMS WITH LOCTITE ON THE RIGHT SIDE INTO THE FEED TABLE SUPPORT ROD AND IDLER TUBE MOUNTING POST AND ON THE LEFT SIDE INTO THE FEED TABLE SUPPORT ROD AND IDLER TUBE MOUNTING BRACKET. TIGHTEN ALL SCREWS.
- G1) FROM ASO2 PLACE A FEED TABLE
 GUIDE RIGHT (C15 099.4) AND A FEED
 TABLE GUIDE LEFT (C15 098.4) OVER
 THE FRONT AND REAR FEED TABLE
 GUIDE BLOCKS. ALIGN THE FRONT
 AND REAR GUIDE BLOCK THREADS
 AND SECURE THE GUIDES TO THE
 BLOCKS WITH 4-40 X 3/16 FHMS. USE
 LOCTITE ON THE THREADS. THE
 GUIDES MUST SLIDE BACK AND FORTH
 EASILY. IF THEY DO NOT, REAM THE
 REAR FEED TABLE GUIDE BLOCK THAT
 SHOWS RESISTANCE.
- 62) SNUG (2) 11/4" SPI KNOBS (PRK179)
 AS07 INTO THE FRONT THREADS OF
 THE FEED TABLE GUIDE BLOCKS
 LOCATED CLOSER TO THE RUBBER
 ROLLS. THESE SPI KNOBS ARE AT AN
 ANGLE FORWARD.

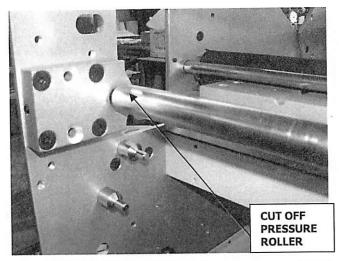


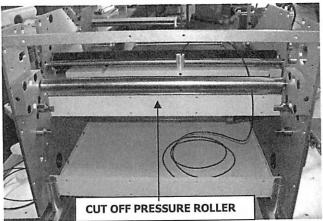


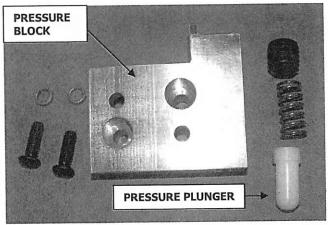


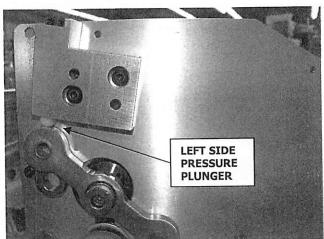


- 63) PLACE THE RIGHT AND LEFT SIDE MOUNT FOR BEARING AND PIN ASSEMBLIES, ORIENTED WITH THE DELRON BEARING MOUNT AND PIN OUTWARD, WHICH WILL BE BY THE SIDE PANELS, ONTO THE END SHAFTS OF A CUT OFF PRESSURE ROLLER (C15 404.4) AS02. FIT THE SHAFT ENDS INTO RIGHT AND LEFT ROLLER BEARINGS.
- 64) GATHER (8) 5/16-18 X 1¼ FHSH.
 FROM THE REAR OF THE CUTTER SLIDE
 THE CUT OFF PRESSURE ROLLER ON
 THE MOUNTS BETWEEN THE SIDE
 PANELS. ORIENT THE CUT OFF
 PRESSURE ROLLER TOWARD THE
 FRONT AND THE FLAT OF THE MOUNT
 TO THE REAR. SECURE EACH MOUNT
 WITH (4) 5/16-18 X 1¼ FHSH. THERE
 SHOULD BE PLENTY OF MOVEMENT
 WITH THE CUT OFF PRESSURE ROLLER.
- MAKE (2) UNIVERSAL PRESSURE 65) **BLOCK ASSEMBLIES FOR THE RIGHT** AND LEFT SIDE. ADD LITHIUM GREASE TO A WHITE DELRON PRESSURE PLUNGER (C15 059.4) RACK 24. INSERT THE ROUNDED END INTO A THE <u>LITHIUM GREASED</u> THREADED END OF A PRESSURE BLOCK (C15 058.4) RACK 24. ADD A SILVER IDLER TENSIONING SPRING (PRS070) RACK 23 INTO THE PRESSURE BLOCK, NEXT TO PRESSURE PLUNGER. THREAD **DOWN A 5/8-11 X 5/8 SET SCREW** (.625MAA10) AS12. THE SPRING TENSION WILL BE ADJUSTED LATER.
- SECURE ONLY THE LEFT SIDE 66) PRESSURE BLOCK ASSEMBLY TO REAR, UPPER, OUTER LEFT SIDE PANEL WITH ROUNDED TIP OF PRESSURE PLUNGER ON UPPER REAR PIVOT ARM. THE PRESSURE BLOCK IS SLIGHTLY ANGLED FORWARD. SECURE THE LEFT PRESSURE BLOCK WITH (2) 1/4-20 X 3/4 BHCS, EACH WITH A 1/4 SPLIT LOCK WASHER, THROUGH COUNTERBORED OPENINGS ON THE PRESSURE BLOCK INTO SIDE PANELS. ****THE RIGHT SIDE PRESSURE BLOCK IS ADDED AFTER THE TOP CUT OFF BLADE ASSEMBLY IS INSTALLED.

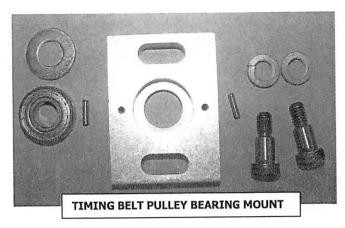


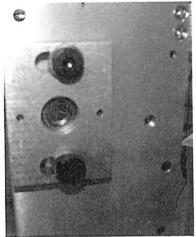






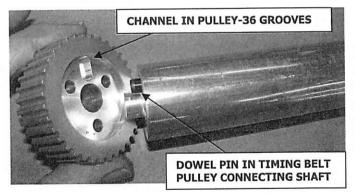
- 67) PREPARE A TIMING BELT PULLEY
 BEARING MOUNT (C15 254.4) RACK 24
 BY PRESSING AN 8ZZ ROLLER BEARING
 (PRB038) RACK 21 FULLY INTO THE
 COUNTERBORE. PRESS (2) 1/8 X ½
 DOWEL PINS (.125JOP08) INTO THE
 SAME SIDE AS THE COUNTERBORE,
 LEAVING 1/8" OF THE DOWEL PIN
 EXPOSED. THE THICKNESS OF A ½
 FLAT WASHER CAN BE USED WHEN
 PRESSING IN THE DOWEL PIN TO
 MEASURE THE EXPOSED 1/8"
 DISTANCE.
- PLACE THE PREPARED TIMING BELT PULLEY BEARING MOUNT ON THE OUTER, UPPER RIGHT REAR SIDE PANEL, CATCHING THE EXPOSED DOWEL PINS IN THE SIDE PANEL CHANNELS. LOOSELY, SECURE THE TIMING BELT PULLEY BEARING MOUNT TO THE SIDE PANEL WITH (2) 3/8 X ½ SHOULDER BOLTS, EACH WITH A 3/8 SPLIT LOCK WASHER (.375KKM01).
- 69) INSERT A 1/4 X 3/4 DOWEL PIN (.250JPO12) INTO EACH END OF THE TIMING BELT PULLEY CONNECTING SHAFT (C15 257.4) ASO2.
- 70) ALIGN THE CHANNEL IN THE
 COUNTERBORE OF A TIMING BELT
 PULLEY-36 GROOVES (C15 456.4) RACK
 24 WITH THE 1/4 X 3/4 DOWEL PIN IN
 THE END OF THE TIMING BELT PULLEY
 CONNECTING SHAFT. INSERT THE
 DOWEL PIN INTO THE CHANNEL.
 SECURE THE COUNTERSUNK PULLEY
 HUB TO THE THREADED PULLEY SHAFT
 END WITH (3) 10-32 X 11/4 FHMS.
- 71) ALIGN THE SET SCREW UPWARD ON THE TIMING BELT PULLEY. FULLY INSERT A TIMING BELT PULLEY BEARING SHAFT (C15 255.4) RACK 24, WITH THE FLAT CUT UPWARD, UNDER THE SET SCREW. UNTHREAD THE PULLEY 1/4-28 x 3/8 SET SCREW, ADD A DROP OF LOCTITE AND RETHREAD ON THE BEARING SHAFT FLAT. UNTHREAD THE SECOND SET SCREW, ADD LOCTITE AND TIGHTEN ON BEARING SHAFT.

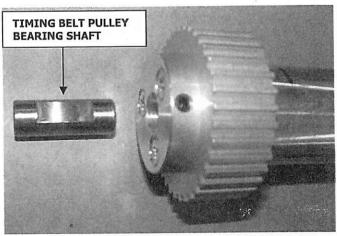




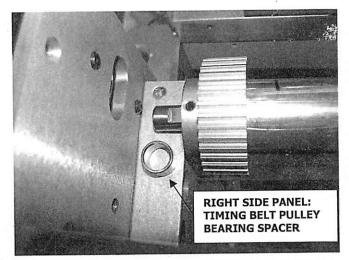


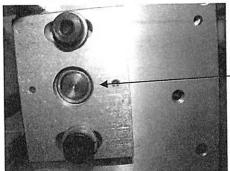
EXPOSED DOWEL PIN CATCHES IN SIDE PANEL





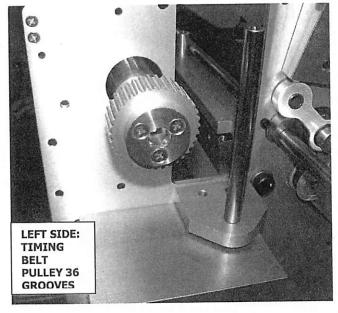
STAND BEHIND THE CUTTER, PLACE 72) THE UNASSEMBLED TIMING BELT **PULLEY CONNECTING SHAFT END** THROUGH THE INNER LEFT SIDE PANEL **WHICH IS ON YOUR RIGHT AND WILL BE THE STEPPER CUTTING MOTOR SIDE. THE 36 GROOVE PULLEY ALREADY ON THE CONNECTING SHAFT IS BY THE RIGHT SIDE PANEL SIDE. PLACE A TIMING BELT PULLEY BEARING SPACER (C15 253.4) RACK 24 OVER THE TIMING BELT PULLEY BEARING SHAFT AND INSERT THE SHAFT INTO THE ROLLER BEARING ON THE TIMING BELT BEARING MOUNT. THE SHAFT IS ABOUT FLUSH WITH THE OUTER ROLLER BEARING.

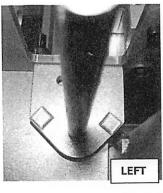


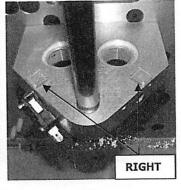


TIMING BELT PULLEY BEARING MOUNT ON RIGHT SIDE PANEL

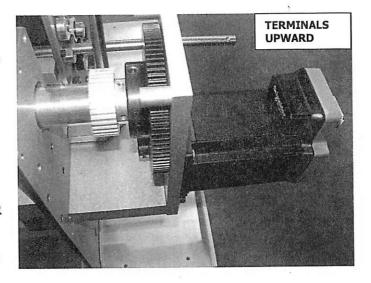
- 73) ADD ANOTHER TIMING BELT PULLEY
 36 GROOVES (C15 456.4) RACK 24 TO
 THE UNASSEMBLED END OF THE
 TIMING BELT PULLEY CONNECTING
 SHAFT. ALIGN THE DOWEL PIN INTO
 THE PULLEY COUNTERBORE CHANNEL.
 SECURE THE PULLEY THROUGH THE (3)
 COUNTERSINKS ON THE PULLEY HUB
 WITH 10-32 X 11/4 FHMS.
- 74) ADD (4) STICK ON RUBBER BUMPERS
 (PRR266) RACK 5, (2) EACH ON THE
 BOTTOM GUIDE BAR MOUNTS. ON THE
 LEFT MOUNT ALIGN AS PICTURED,
 FLUSH TO THE OUTER RADIUS CORNER
 BEND. ON THE RIGHT MOUNT ALIGN
 5/8" OUTWARD FLUSH FROM THE
 RADIUS CORNER BEND.

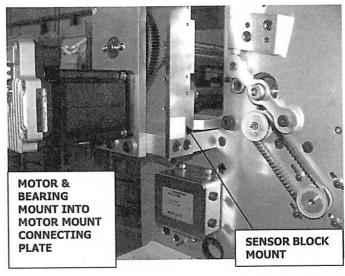


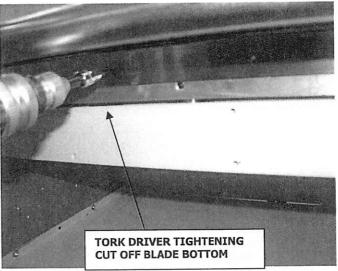




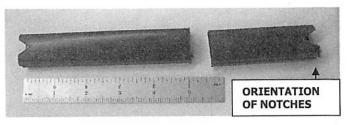
- 75) SECURE THE CUTTING GEARS AND MOTOR ASSEMBLY TO THE LEFT SIDE OF THE CUTTER. THIS IS EASIER WITH TWO PEOPLE. ALIGN THE FLAT CUT OF THE DRIVEN GEAR SHAFT UPWARD AND ALIGN A SET SCREW THREAD ON THE LEFT SIDE TIMING BELT PULLEY OVER THE SHAFT FLAT. INSERT THE SHAFT AND SECURE WITH A 10-32 X 3/8 SET SCREW WITH LOCTITE ON THREADS.
- 76) LET ONE PERSON HOLD THE STEPPER CUTTER MOTOR WHILE THE SECOND PERSON THREADS (3) 3/8 X 3/8 SHOULDER BOLTS, EACH WITH A 3/8 SPLIT LOCK WASHER THROUGH THE LOWER MOTOR BEARING MOUNT AND INTO THE THREADED MOTOR MOUNT CONNECTING PLATE.
- 77) TIGHTEN ANOTHER 10-32 X 3/8 SET SCREW WITH LOCTITE ON THREADS IN THE SECOND LOCATION ON THE TIMING BELT PULLEY. THIS IS ON THE SHAFT ROUND.
- 78) TEST THE COMPLETE 360 DEGREE ROTATION OF THE GEARS FOR SMOOTHNESS, BACK AND FORTH.
- 79) SECURE THE SENSOR BLOCK MOUNT (C15 322.4) RACK 24 TO THE FRONT OF THE MOTOR MOUNT CONNECTING PLATE. USE (2) 1/4-20 X 3/4 FHMS.
- **ORIENT THE 5 DEGREE BOTTOM** 80) BLADE EDGE UPWARD ON A STATIONARY CUT OFF BLADE BOTTOM (C15 403.4) AS02 TO THE BOTTOM CUT OFF BLADE HOLDER AND SECURE USING (5) 6-32 X 5/8 FH TORX (.138BAB10) AS11. *START THE MIDDLE THREADS AND BEGIN REMAINING THREADS. USE THE BLADE'S WEIGHT TO LEVEL CUTTING BLADE. WITH A TORK DRIVER, TIGHTEN THE CENTER SCREW. TIGHTEN THE SCREWS ON EITHER SIDE OF CENTER AND WORK YOUR WAY OUTWARD.

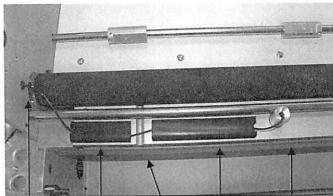




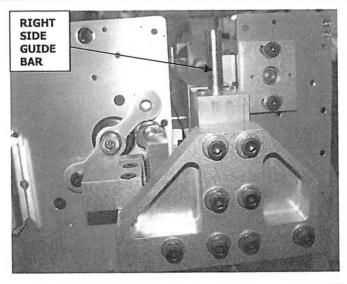


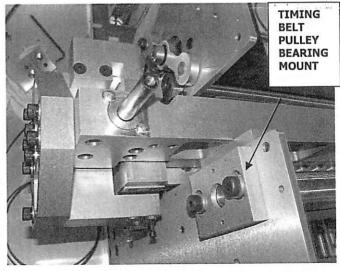
- PIECE OF ELECTRICAL RACEWAY
 (PRC076) AS16. THE RACEWAY WILL
 GUIDE AND PROTECT THE TOP
 SENSOR CABLE. CUT AND TRIM A
 NOTCH ON THE OUTER ENDS OF
 BOTH PIECES TO HOLD THE SENSOR
 CABLE AWAY FROM THE CUTTER
 BLADE.
- **ALIGN RACEWAY WITH NOTCHES** 82) OUTWARD AND OPENING CLOSURE TOWARD THE FRONT OF THE CUTTER. CENTER THE 5" RACEWAY BETWEEN SENSOR HOLDER AND GROOVE IN TOP MATERIAL GUIDE MOUNT. INSERT SENSOR CABLE AND CLOSE RACEWAY, ADHERE 5" RACEWAY BETWEEN MATERIAL GUIDE MOUNT AND CAM SHAFT, SO CAM SHAFT AND CUTTER ASSEMBLY MOVEMENT WILL NOT RUB. INSERT SENSOR CABLE INTO THE 3" RACEWAY AND OUT THROUGH SIDE PANEL GROMMET. ADHERE 3" RACEWAY ON OPPOSITE SIDE OF SENSOR HOLDER BAR.
- 83) BEFORE ADDING THE TOP CUT OFF
 BLADE ASSEMBLY TO CHASSIS: A) IF
 BLADES ARE ON, DO NOT LET THEM
 TOUCH EACH OTHER DURING
 INSTALLING, CAUSING CHIPS OR
 DULLING BLADES. B) REMOVE
 SHOULDER BOLTS IN RIGHT SIDE
 TIMING BELT PULLEY BEARING
 MOUNT AND SET MOUNT ASIDE.
 REPLACE MOUNT AFTER TOP CUT OFF
 BLADE ASSEMBLY IS INSTALLED.
- FROM THE REAR OF THE CUTTER, 84) ONE PERSON CAN ALIGN THE TOP CUT OFF BLADE ASSEMBLY OVER THE RIGHT AND LEFT GUIDE BARS. A SECOND PERSON CAN ALIGN THE **GUIDE BARS INTO THE LOWER SELF** ALIGNING BALL BEARINGS. THE (3) CARDBOARD CYLINDERS IN THE SELF ALIGNING BALL BEARINS WILL POP **OUT WHEN INSTALLED, DISCARD** THEM. EVENLY SLIDE THE ASSEMBLY DOWNWARD. THE LEFT/MOTOR SIDE TOP BLADE SHOULD BE SLIGHTLY LOWER THAN THE LEFT SIDE BOTTOM BLADE.



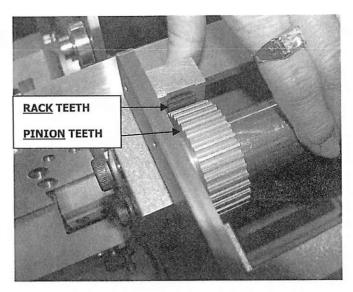


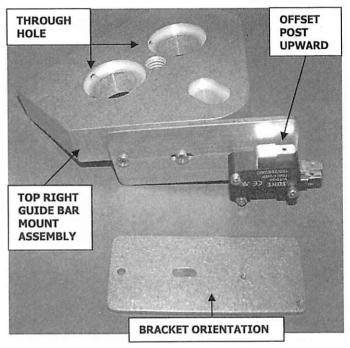
GROMMET~ 3" RACEWAY~GROOVE~5" RACEWAY~SENSOR

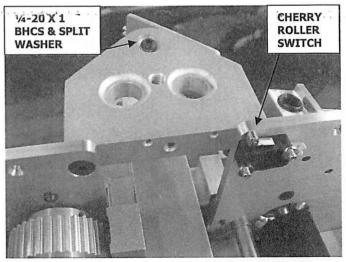




- 85) ONE PERSON CAN MESH THE HEAVY RUBBER 'RACK' TEETH ON THE RIGHT AND LEFT TIMING BELT MOUNTING BLOCKS WITH THE TIMING BELT PULLEY 'PINION' TEETH, WHILE HOLDING THE TOP CUT OFF BAR TO THE REAR. AFTER BOTH SIDE TEETH MESH, THE SECOND PERSON CAN TIGHTEN THE BUTTONHEAD SCREWS ON THE UNDERSIDE OF THE RIGHT AND LEFT GUIDE BARS.
- 86) TIGHTEN THE (3) SHCS BELOW THE MOTOR, HOLDING MOTOR MOUNT TO THE MOTOR MOUNTING PLATE.
- 87) REPLACE AND TIGHTEN TIMING BELT PULLY BEARING MOUNT SHOULDER BOLTS, INSERT PULLY SHAFT.
- 88) ADD THE RIGHT SIDE PRESSURE
 BLOCK ASSEMBLY, ABOVE THE PIVOT
 ARM. SECURE WITH (2) 1/4-20 X 3/4
 BHSC, EACH WITH A 1/4 SPLIT LOCK
 WASHER THROUGH COUNTERBORES
 INTO THE SIDE PANEL.
- 89) SECURE A CHERRY MINI ROLLER SWITCH (PRS370) RACK 13 TO A CUTTING MODULE SAFETY SWITCH BRACKET (C15 234.4) RACK 24. HOLD BRACKET WITH THE CHANNEL TO THE LEFT AND THE DIAGONAL THREADS TO THE LOWER RIGHT. THE OFFSET SWITCH TERMINAL IS UPWARD. USE (2) 4-40 X ½ SHCS.
- 90) WITH THE 'THROUGH HOLE' IN THE COUNTERBORES UPWARD, ON A TOP RIGHT GUIDE BAR MOUNT (C15 233.4) RACK 24, SECURE CUTTING MODULE SAFETY SWITCH BRACKET AND SWITCH TO THE FRONT RIGHT GUIDE BAR MOUNT. USE (2) 4-40 X 1/4 PHMS, THREADS ARE DOWNWARD.
- 91) PLACE THE TOP RIGHT GUIDE BAR MOUNT ASSEMBLY OVER THE RIGHT GUIDE BAR. SECURE TO SIDE PANEL THROUGH INNER COUNTERSINKS WITH (2) 1/4-20 X 3/4 FHMS.
- 92) PLACE A ¼ SPLIT LOCK WASHER ON A ¼-20 X 1 BHCS AND INSERT THROUGH RIGHT GUIDE BAR MOUNT

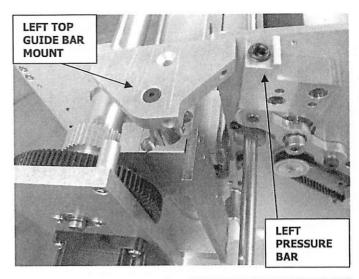


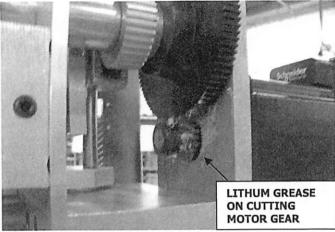


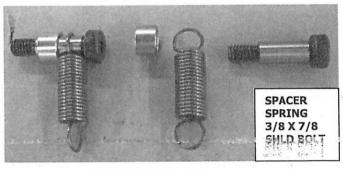


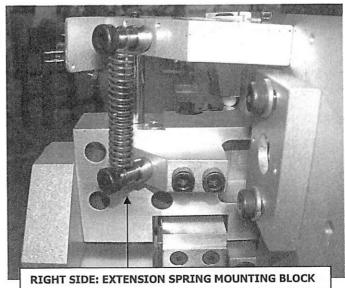
CHANNEL, THREADING INTO RIGHT GUIDE BAR, TIGHTEN.

- 93) SECURE A CHERRY MINI ROLLER
 SWITCH (PRS370) ROLLER UPWARD
 TO THE INNER RIGHT SIDE PANEL,
 COVERING THE FRONT 1/4-20 FHSH
 HOLDING TOP RIGHT GUIDE MOUNT.
 USE (2) 4-40 X 3/4 SHCS EACH WITH A
 POP RIVET WASHER FOR THICKNESS.
- 94) PLACE LEFT TOP GUIDE BAR MOUNT (C15 221.4) RACK 24 OVER THE LEFT GUIDE BAR. SECURE TO SIDE PANEL THROUGH INNER COUNTERSINKS WITH (2) 1/4-20 X 1 FHSH. PLACE ANOTHER 1/4-20 X 1 FHSH THROUGH THE OUTER, TOP COUNTERSINK AND SECURE LEFT TOP GUIDE MOUNT TO THE LEFT GUIDE BAR.
- 95) BRUSH LITHIUM GREASE CAB1 ON
 LEFT SIDE, CUTTING MOTOR GEAR
 TEETH. LIFT TOP BLADE HOLDER TO
 ROTATE THE GEAR. THE UPPER,
 LARGER GEAR DOES NOT MAKE A
 FULL ROTATION WHEN THE CUTTER
 IS COMPLETELY ASSEMBLED.
 THEREFORE, ADD LITHIUM GREASE
 ONLY WHERE THE TEETH MEET THE
 CUTTING MOTOR GEAR TEETH.
- 96) GATHER PARTS TO CONNECT RIGHT AND LEFT SIDE EXTENSION SPRING (PRS510) RACK 24. THE RIGHT AND LEFT SIDE EXTENSION SPRING IS HELD WITH (4) 3/8 X 7/8 SHOULDER BOLTS (.375IAC14), EACH WITH A TOP RUBBER ROLL SPACER (C25 045.4) RACK 11. SPACER LOCATES BY THE SHOULDER BOLT THREADS.
- 97) LOOP EXTENSION SPRING END OVER THE SHOULDER BOLT ADD SPACER BY THE THREADS, INSERT THE LOWER SHOULDER BOLT INTO RIGHT SIDE EXTENSION SPRING MOUNTING BLOCK AND TIGHTEN SHOULDER BOLT. THE UPPER EXTENSION SPRING AND SPACER CONNECT TO TOP RIGHT GUIDE BAR MOUNT. A 3/8 X 7/8 SHOULDER BOLT IS USED SO SPRING DOES NOT GET PINCHED BETWEEN SHOULDER BOLT HEAD AND SPACER WHEN THE SPRING RETRACTS.

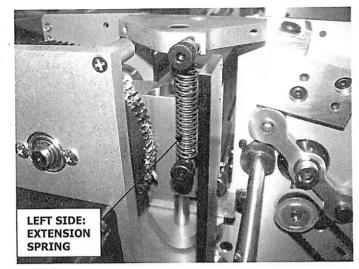




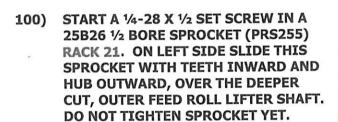




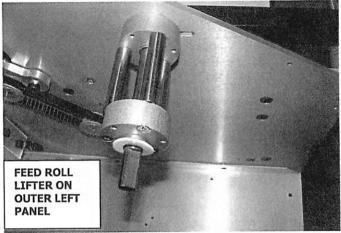
98) ON THE LEFT/MOTOR SIDE OF THE CUTTER, THE LOWER EXTENSION SPRING, SPACER AND SHOULDER BOLT ARE THREADED INTO THE OUTER TOP CUT OFF BLADE HOLDER ASSEMBLY, IN FRONT OF THE LARGER GEAR. THE UPPER SHOULDER BOLT, EXTENSION SPRING, AND SPACER ARE THREADED INTO THE LEFT TOP GUIDE BAR MOUNT. AFTER THE SPRINGS ARE ATTACHED, VERIFY THAT THE RACK AND PINION TEETH ARE MESHED.

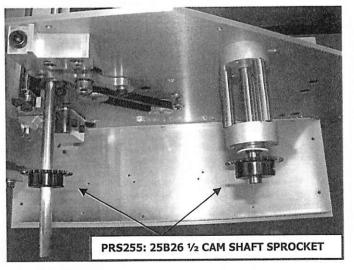


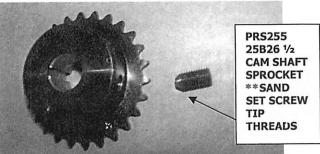
99) SECURE THE INSIDE FEED ROLL LIFTER ASSEMBLY TO THE OUTER LEFT SIDE PANEL. INSERT THE SHORTER CUT SHAFT END ON THE COUNTERBORED MOUNTING BRACKET SIDE THROUGH THE SIDE PANEL OPENING. ON THE INNER LEFT SIDE PANEL, LOOSELY SECURE THE INSIDE FEED ROLL LIFTER ASSEMBY WITH (3) 10-32 X ½ THMS, EACH WITH A #10 STAR WASHER. THE CHANNELS IN THE SIDE PANEL WILL ALLOW CHAIN ADJUSTMENT LATER.



- 101) SAND OFF A COUPLE OF THREADS ON THE TIP END OF A SECOND ¼-28 X ½ SET SCREW. SANDING WILL BETTER ACCOMMODATE THE CATCH DEPTH IN THE CAM SHAFT.
- 102) WITH TEETH INWARD AND HUB OUT, SLIDE A SECOND 25B26 ½ BORE SPROCKET (PRS255) OVER CAM SHAFT. TIGHTEN TRIMMED SET SCREW INTO CAM SHAFT CATCH, WHICH MEASURES ABOUT 4 ½ FROM THE SIDE PANEL. MEASURE THE SPROCKET TEETH ON THE FEED ROLL LIFTER SHAFT TO AN EQUAL DISTANCE AND TIGHTEN THE SET SCREW ON THAT SPROCKET.



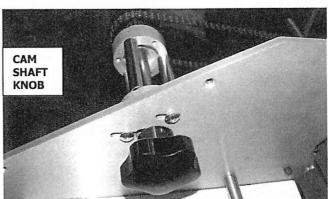




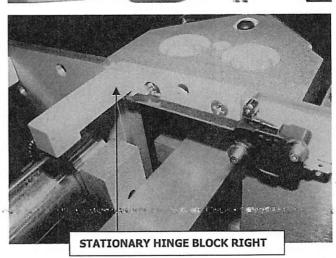
103) CUT 24" OF #25 CHAIN ROLL
(PRC083.1) WORK TABLE BY D-02.
PLACE THE CHAIN OVER THE 25B26
SPROCKETS AND CONNECT USING A
#25 CHAIN CONNECTING LINK
(PRC084) AS09. THE CHAIN IS
ADJUSTED BY SLIDING THE FEED
ROLL LIFTER ASSEMBLY IN THE SIDE
PANEL CHANNELS. *** THE CHAIN
SHOULD BE LOOSE ENOUGH THAT
THERE IS NO STRESS ON THE CAM
SHAFT AND IT DROPS EASILY.



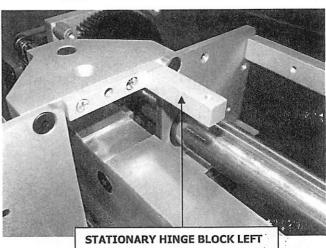
104) SECURE A LD CAM SHAFT KNOB (PRK175) LD05 TO THE FLAT CUT PORTION OF THE INNER SHAFT ON THE FEED ROLL LIFTER ASSEMBLY, OVER THE MOTOR COVER. USE A 1/4-20 X 3/8 SET SCREW ON THE SHAFT FLAT.



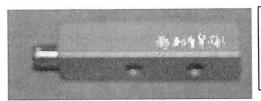
105) SECURE THE STATIONARY HINGE BLOCK RIGHT (C15 073.4) RACK 24 TO THE UPPER, INNER TOP RIGHT GUIDE BAR MOUNT, ALONG INNER SIDE PANEL, ABOVE THE TOP CUT OFF BLADE HOLDER ASSEMBLY. THE RIGHT STATIONARY HINGE BLOCK HAS THE CUT OUT NOTCHES DOWNWARD, TO THE REAR, ON THE PORTION THAT EXTENDS INWARD. USE AN 8-32 X ½ PHMS IN THE COUNTERBORED OPENING AND AN 8-32 X ½ FHMS IN THE COUNTERSUNK OPENING.



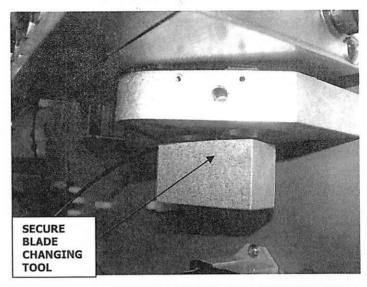
106) SECURE THE STATIONARY HINGE BLOCK LEFT (C15 071.4) RACK 24 TO THE UPPER, INNER TOP LEFT GUIDE BAR MOUNT, ALONG THE INNER PANEL, ABOVE THE TOP CUT OFF BLADE HOLDER ASSEMBLY. THE LEFT STATIONARY HINGE BLOCK HAS THE INWARD EXTENDING PORTION TO THE REAR OF THE CUTTER. USE AN 8-32 X ½ PHMS IN THE COUNTERBORED OPENING AND AN 8-32 X ½ FHMS IN THE COUNTERSUNK OPENING.

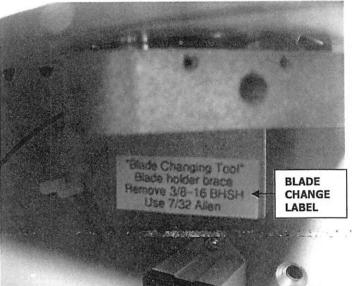


- 107) ARBOR PRESS A 3/16 X ½ DOWEL PIN (.187JOP08) INTO THE OPEN END OF (2) ROTATING HINGE BLOCKS (C15 072.4) RACK 24. THE ROTATING HINGE BLOCKS WILL BE USED TO SECURE THE SAFETY SHIELD WHICH IS ADDED AFTER THE CUTTING BLADES ARE TESTED, IN THE "WIRING AND HOUSING" SECTION. SET THE ROTATING HINGE BLOCKS ASIDE.
- 108) SECURE THE BLOCK CALLED A BLADE CHANGING TOOL (C15 399.4) RACK 24 TO THE RIGHT GUIDE BAR MOUNT BOTTOM, CENTER THREADS USING A 3/8-16 X 1 1/4 BHSH (.375AAO20). ADHERE INSTRUCTIONAL LABEL TO THE BLADE CHANGING TOOL BLOCK. LABELS ARE LOCATED IN THE BOX WITH CHANGING TOOL AND ARE PRINTED AT LEDCO.



ROTATING HINGE BLOCK & 3/16 X ½ DOWEL PIN

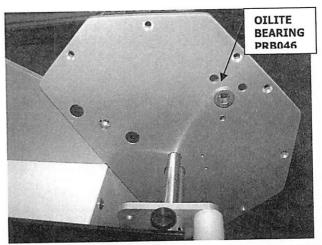


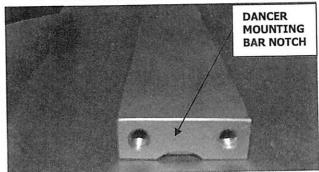


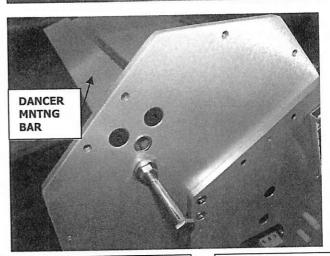


C15 DANCER ASSEMBLY 2017

- 1) THE DANCER ASSEMBLY PURPOSE IS TO STOP THE CUTTER. THE DANCER ROLLER RAISES AS THE LAMINATE TIGHTENS. WHEN THE DANCER ROLLER REACHES A CERTAIN HEIGHT THE FAIL-SAFE ENGAGES.
- 2) TAP AN OILITE BEARING (PRB046)
 RACK 21 INTO THE INNER FRONT OF
 DANCER MOUNTING PLATE, LOCATED
 ABOVE FRONT IDLER TUBE, WITH THE
 OILITE BEARING FRANGE INWARD ON
 IDLER TUBE SIDE. REAM WITH .3800.
- 3) LOOK AT THE TAPPED ENDS OF A DANCER MOUNTING BAR (C15 288.4) AS02. THERE IS A NOTCH BETWEEN THE THREADS THAT WILL FIT OVER THE OILITE BEARING FLANGE ON THE DANCER MOUNTING PLATE. THE TWO ENDS OF THE DANCER MOUNTING BAR ARE UNIVERSAL AND EITHER SIDE WILL FIT THE DANCER MOUNTING PLATE OILITE BEARING FLANGE.
- 4) ALIGN THE DANCER MOUNTING BAR OVER THE OILITE BEARING FLANGE ON THE INNER DANCER MOUNTING PLATE. SECURE WITH (2) 1/4-20 X 3/4 FHSH.
- 5) ARBOR PRESS ANOTHER OILITE
 BEARING (PRBO46) RACK 21 INTO A
 DANCER STOP PLATE (C30 295.4) RACK
 11 ORIENT FLANGE ON THE SIDE WITH
 (2) LARGER HOLES UPWARD AND THE
 SMALLER, THREADED OPENING TO THE
 LOWER LEFT. REAM WITH .3800.
- 6) START A 10-32 KEPS HEX NUT UP THE THREADS OF A 10-32 X 1 1/4 BH TAMPER PROOF HEX (.1900FB20). THREAD THE TAMPER PROOF HEX FROM THE SIDE OPPOSITE THE FLANGE ON THE DANCER STOP PLATE UNTIL IT IS FLUSH ON THE FLANGE SIDE. TIGHTEN THE KEPS HEX NUT WITH A WRENCH. THIS MAY NEED TO BE REMOVED WHILE SECURING THE DANCER-CURVED TO THE ASSEMBLY.

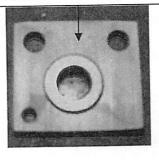


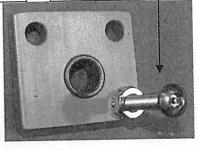




DANCER STOP PLATE, FLANGE

TAMPER PROOF HEX

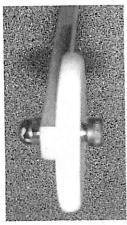


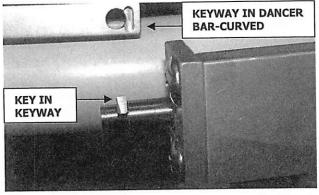


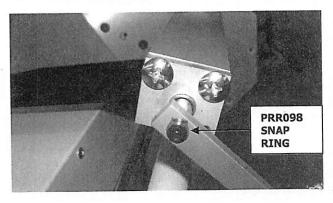
- 7) EXAMINE THE DANCER MOUNTING
 SHAFT (C15 294.4) RACK 24 AND INSERT
 THE SPLIT END OF THE SHAFT THROUGH
 THE INNER DANCER MOUNTING PLATE
 OILITE BEARING FLANGE, LOCATED
 BELOW THE DANCER MOUNTING BAR.
- SLIDE THE DANCER STOP PLATE, WITH 8) OILITE FLANGE TOWARD THE DANCER MOUNTING PLATE, OVER THE DANCER MOUNTING SHAFT END LOCATED UNDER THE DANCER MOUNTING BAR. THE TAMPER PROOF BH HEX IN THE DANCER STOP PLATE FACES AWAY FROM THE DANCER MOUNTING SHAFT. SECURE THE DANCER STOP PLATE TO THE DANCER MOUNTING BAR USING (2) 1/4-20 X 3/4 THMS THE DANCER MOUNTING SHAFT MUST SPIN EASILY. IF IT DOES NOT SPIN FREELY, REMOVE AND SAND THE OILITE FLANGE OR DEEPEN THE JOURNAL END.
- 9) PREPARE THE DANCER BAR FOR TOUCHSCREEN, CURVED (C30 289.4A) RACK 11 BY FIRST SECURING A DANCER ROLLER (C30 292.4) RACK 11 THROUGH THE THREADED END, WHITE ROLLER ON KEYWAY SIDE. INSERT A 1/4 X 5/16 SHOULDER BOLT (.250IAC05) INTO THE WHITE DANCER ROLLER AND THREAD INTO THE DANCER BAR FOR TOUCHSCREEN, CURVED. SECURE THE SHOULDER BOLT THREADS WITH A 10-32 ACORN NUT OPPOSITE THE KEYWAY. LOCTITE AND TIGHTEN WITH WRENCH.
- 10) PLACE A 1/8 SQ X 1/4 LG STRAIGHT KEY (H850 178.4) RACK 9 ***** CHOOSING THE SHORTEST KEY IN THE BOX ON THE RACK, INTO THE KEYWAY OF THE DANCER MOUNTING SHAFT. SOME SANDING MAY BE REQUIRED.
- 11) SLIDE THE KEYWAY OF THE DANCER
 BAR-CURVED OVER THE KEY IN THE
 DANCER MOUNTING SHAFT. SECURE THE
 DANCER BAR-CURVED TO THE DANCER
 MOUNTING SHAFT WITH AN EXTERNAL
 RETAINING RING (PRR098) RACK 12.
 THE DANCER BAR CURVED WILL REST ON
 THE TAMPER PROOF BH HEX IN THE
 DANCER STOP PLATE.





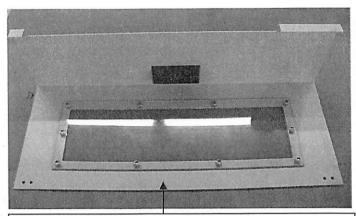




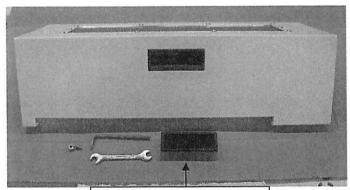


C15 SAFETY SHIELD ASSEMBLY

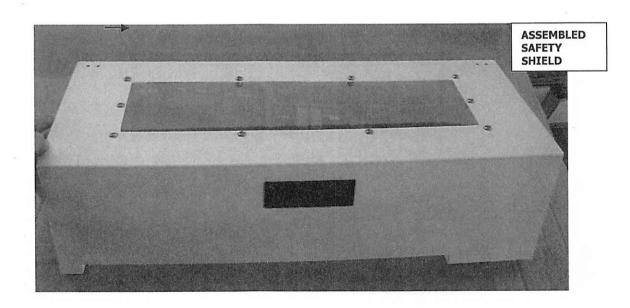
- 1) PREPARE THE SAFETY SHIELD (C15 074.4) AS02 BY FIRST SECURING A WINDOW SAFETY SHEILD (C15 077.4) AS02 TO THE INNER BEND. START (10) 10-32 X 3/8 TORX SCREWS THROUGH SAFETY SHIELD AND WINDOW WITH A 10-32 NYLON INSERT NUT ON THE INSIDE. SNUG NUTS WITH A T25 TORX ALLEN WRENCH. IF NUTS ARE TOO TIGHT, THE WINDOW WILL CRACK.
- 2) SNAP A POCKET PULL FLUSH HANDLE (PRH150) RACK 12 INTO THE CUT OUT OPENING UNDER THE SAFETY SHIELD WINDOW. THE SMALLER HANDLE LIP IS UPWARD.



WINDOW SAFETY SHEILD: 10-32 X 3/8 TORX & NYLON NUT

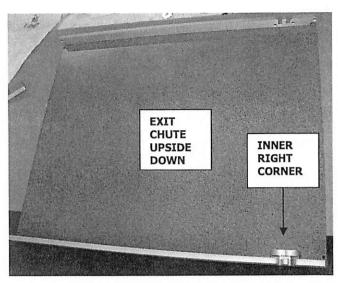


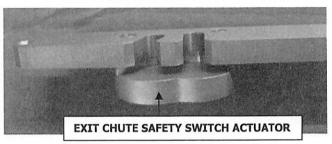
POCKET PULL FLUSH HANDLE

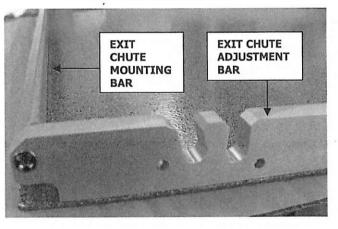


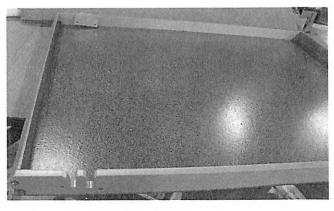
C15 EXIT TRAY ASSEMBLY

- 1) PLACE THE EXIT CHUTE (C15 153.4)
 AS02 ON A WORKTABLE, WITH THE
 COUNTERSINKS DOWNWARD.
- 2) SECURE AN EXIT CHUTE SAFETY
 SWITCH ACTUATOR (C15 155.4) RACK
 24 TO THE INNER RIGHT SIDE OF A
 UNIVERSAL EXIT CHUTE ADJUSTMENT
 BAR (C15 151.4) AS02, BY THE
 NOTCHES. NOTE PICTURE FOR
 ORIENTATION. THE MACHINED SIDE
 OF THE SAFETY SWITCH ACTUATOR IS
 NEXT TO THE EXIT CHUTE
 ADJUSTMENT BAR. USE (2) 6-32 X 5/8
 FH TORX.
- 3) ALIGN (2) EXIT CHUTE ADJUSTMENT BARS ALONG THE LONG SIDE OF THE EXIT CHUTE. THE NOTCHES ARE ON THE SAME END, OUTWARD, WITH THE SAFETY SWITCH ACTUATOR ON THE RIGHT SIDE, WHEN EXIT CHUTE IS INSTALLED, IN ORDER TO ACCESS THE CHERRY MINI ROLLER SWITCH ON THE SIDE PANEL. START BOTH SIDES OF THE ADJUSTMENT BARS WITH (10) 6-32 X 5/8 FH TORX.
- 4) WITH THE BEVELED EDGE INWARD, PLACE AN EXIT CHUTE MOUNTING BAR (C15 152.4) ASO2 BETWEEN THE ENDS OF BOTH EXIT CHUTE ADJUSTMENT BARS. SECURE THE EXIT CHUTE MOUNTING BARS TO THE EXIT CHUTE ADJUSTMENT BARS WITH AN 8-32 X ½ FHMS ON EACH END.
- 5) TURN THE EXIT CHUTE TRAY
 ASSEMBLY RIGHT SIDE UP AND START
 (4) 6-32 X 3/8 FHMS ON EACH EXIT
 CHUTE MOUNTING BAR. AFTER THE
 TORX SCREWS ARE STARTED, TIGHTEN
 ALL OF THEM ON THE MOUNTING BARS
 AND ADJUSTMENT BARS.
- 6) PREPARE (2) CHUTE GUIDE AND TRAY
 ASSEMBLIES. USE A PRE-CUT TO
 LENGTH FLEXIBLE MAGNETIC STRIP
 WITH ADHESIVE BACK (C15 157.4)
 RACK 24. PEEL OFF THE PROTECIVE
 COVERING ON THE ADHESIVE SIDE OF



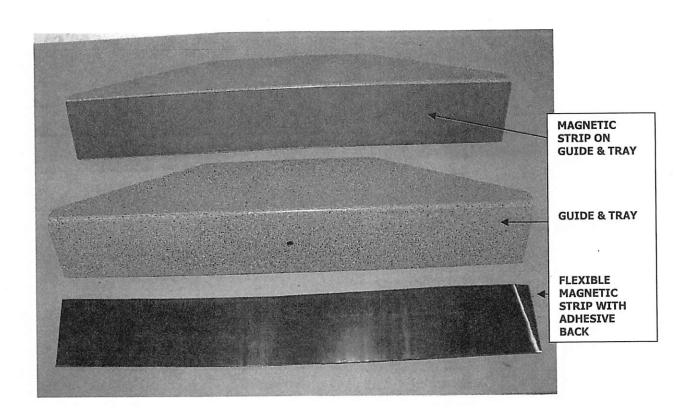


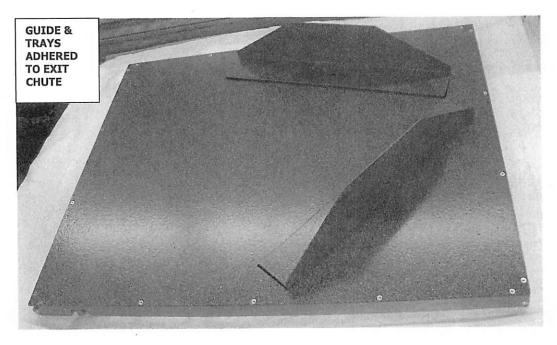




THE MAGNETIC STRIP. CENTER AND ADHERE THE MAGNETIC STRIP TO THE OUTER BREAK OF (2) GUIDE AND TRAYS (C15 158.4) ASO2.

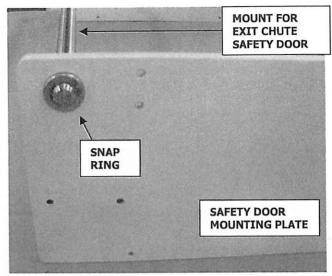
7) PLACE THE GUIDE AND TRAYS ON THE EXIT CHUTE, HELD BY THE MAGNETIC STRIP. ADJUSTMENT IS MADE BY THE CUTTER OPERATOR WHEN IN USE.

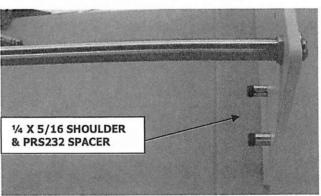


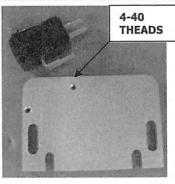


C15 EXIT CHUTE ASSEMBLY

- 1) PLACE (2) PAINTED UNIVERSAL SAFETY DOOR MOUNTING PLATES (C15 473.4) ASO1 ON A WORKTABLE. ORIENT THE LARGER CORNER HOLE UPWARD, ACROSS FROM EACH OTHER. ARBOR PRESS AN OILITE BEARING (PRB048B) RACK 8 INTO THE CORNER OPENINGS, FLANGE OUTWARD ON EACH. REAM BEARINGS WITH A .505.
- 2) INSERT A MOUNT FOR EXIT CHUTE SAFETY DOOR (C15 369.4) AS02
 BETWEEN THE OILITE BEARINGS,
 FLANGES ARE OUTWARD. SECURE THE MOUNT FOR EXIT CHUTE SAFETY DOOR WITH A SNAP RING (PRR191) LD05 BY OILITE FLANGE IN GROOVE ON BOTH SIDES OF EXIT CHUTE SAFETY DOOR.
- 3) BELOW THE OILITE BEARINGS ARE (2) PARALLEL THREADS. PLACE A 7/16 LONG STEEL SPACER CEM (PRS232) AS07 ON EACH OF (4) ¼ X 5/16 SHOULDER BOLTS. TIGHTEN THE SHOULDERBOLTS INTO THE PARALLEL THREADS FROM THE INNER SAFETY DOOR MOUNTING PLATES.
- 4) PLACE AN EXIT CHUTE SAFETY SWITCH MOUNT (C15 154.4) RACK 24 ON A TABLE WITH THE 4-40 THREADS TO THE UPPER LEFT AND THE NOTCHES DOWNWARD. SECURE A CHERRY MINI ROLLER SWITCH (PRS370) RACK 13 OVER THE THREADS, WITH ROLLER UPWARD, OFFSET POST DOWNWARD. SECURE WITH (2) 4-40 X ½ SHCS.
- 5) ORIENT A SAFETY PUSH BAR BRACE
 BAR (C15 362.4) ASO1 WITH THE MORE
 INWARD THREADS DOWNWARD.
 SECURE THE CHERRY ROLLER
 ASSEMBLY TO BRACE BAR THROUGH
 SAFETY SWITCH MOUNT CHANNELS
 USING (2) 8-32 X 3/8 THMS.
- 6) SECURE A BUMPER MOUNT (C15 370.4)
 RACK 24 THROUGH THE BUMPER
 MOUNT COUNTERSINK WITH AN 8-32 X

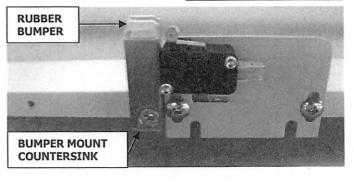








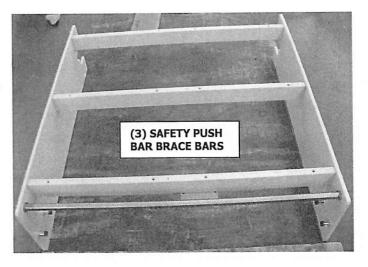
EXIT CHUTE SAFETY SWITCH MOUNT & MINI CHERRY ROLLER

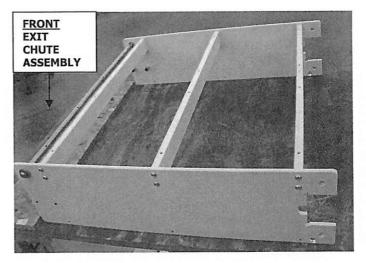


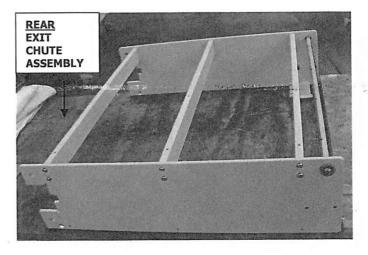
5/8 FHMS, USE LOCTITE ON THREADS. THE ANGLED END OF THE BUMPER MOUNT IS OUTWARD BY THE SWITCH ROLLER. ADHERE A STICK ON RUBBER BUMPER (PRR266) RACK 5, CENTERED ON THE ANGLED END.

- 7) PLACE THE SAFETY PUSH BAR BRACE BAR WITH THE CHERRY ROLLER DOWNWARD AND OUTWARD BETWEEN SAFETY DOOR MOUNTING PLATES AND BEHIND THE MOUNT FOR EXIT CHUTE SAFETY DOOR.

 LOOSELY SECURE BETWEEN MOUNTING PLATES WITH 10-32 X ½ TORK USING T25 ALLEN.
- 8) ADD (2) MORE SAFETY PUSH BAR BRACE BARS, <u>BOTH WITH THE SAME THREADS UPWARD AND ALIGNED</u>, BETWEEN THE MOUNTING PLATES AND LOOSELY SECURE WITH 10-32 X 1/2 TORX. TIGHTEN TORX WITH T25.

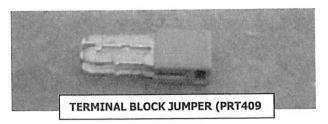


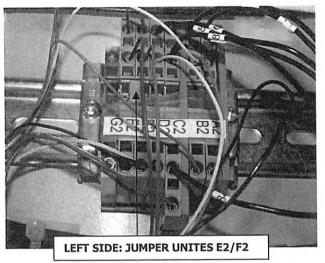




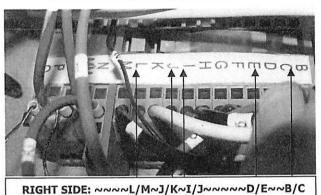
C15 TERMINAL JUMPER CHECK

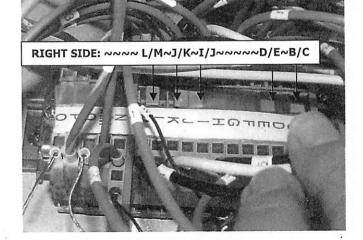
- 1) BEFORE WIRING THE C15, CHECK THE RIGHT AND LEFT BOTTOM HOUSING TERMINAL BLOCKS FOR JUMPER LOCATIONS; ONE JUMPER ON THE LEFT AND FIVE ON THE RIGHT.
- 2) THE TERMINAL BLOCK JUMPERS (PRT409) ARE LOCATED ON RACK 13.
- 3) ON THE LEFT BOTTOM HOUSING THERE IS ONE TERMINAL BLOCK JUMPER LOCATED TO UNITE E2/F2 ON THE TERMINAL BLOCK.

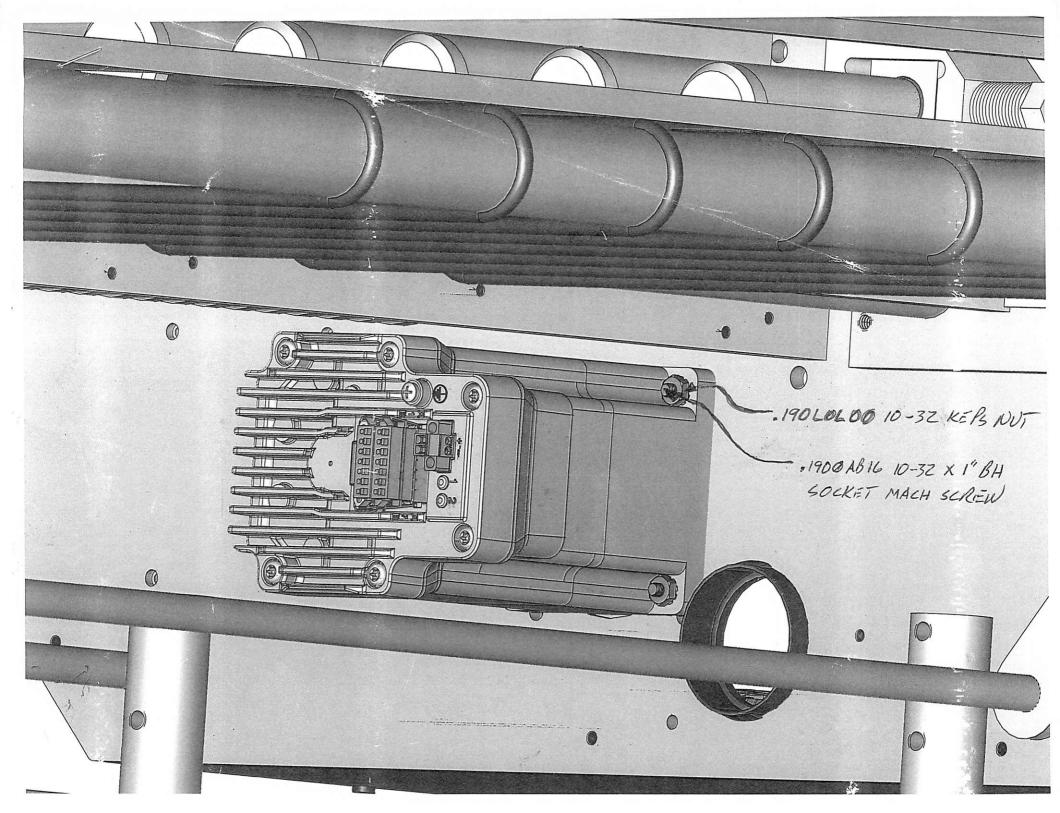


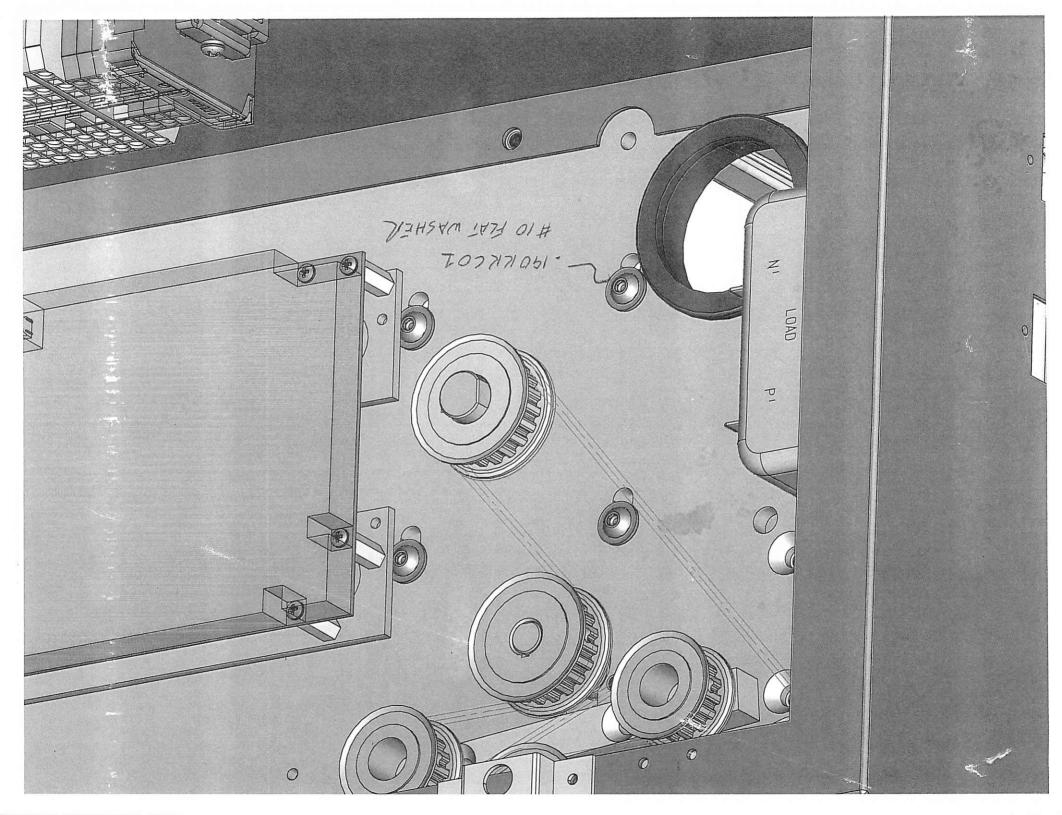


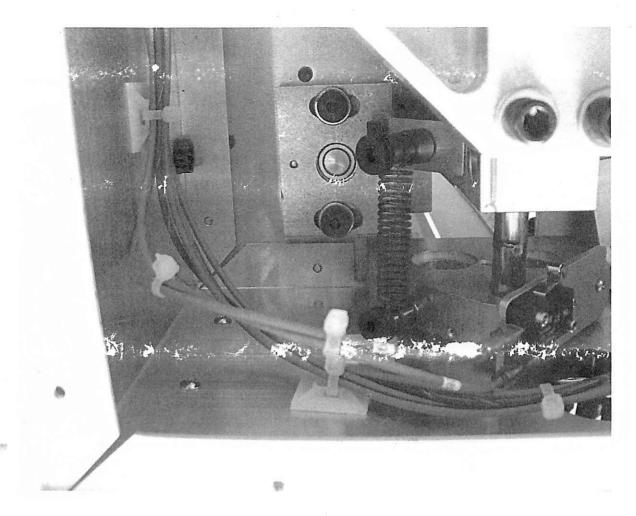
4) ON THE RIGHT BOTTOM HOUSING THERE ARE FIVE TERMINAL BLOCK JUMPERS. THESE JUMPERS ARE LOCATED TO UNITE: B/C, D/E, I/J, J/K AND L/M.

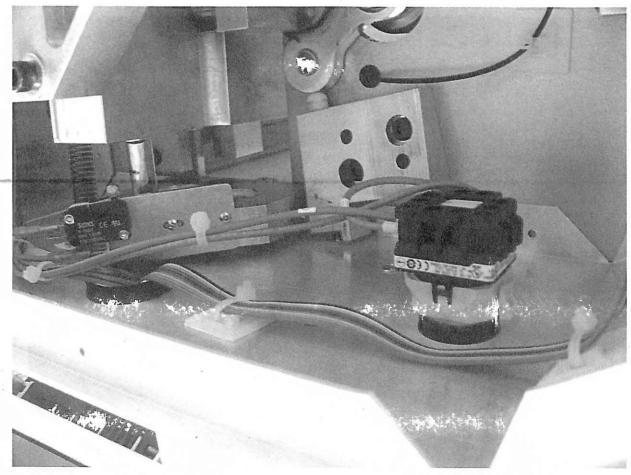


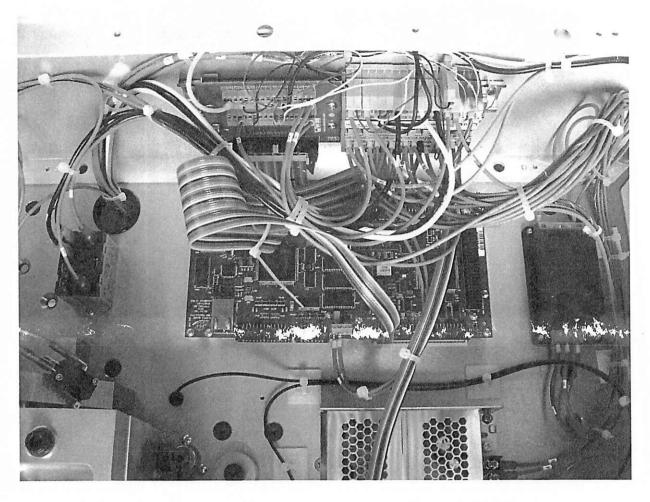


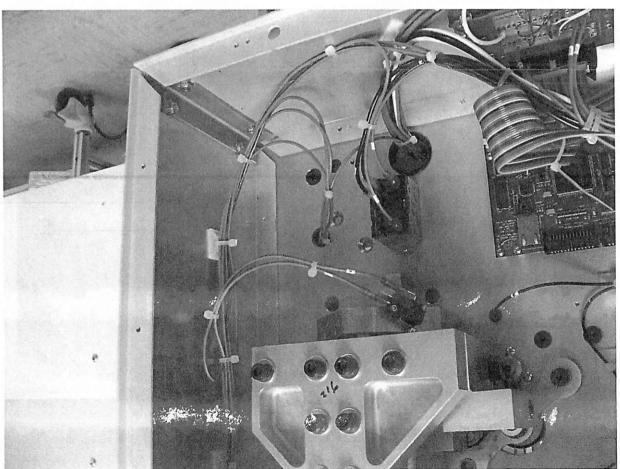


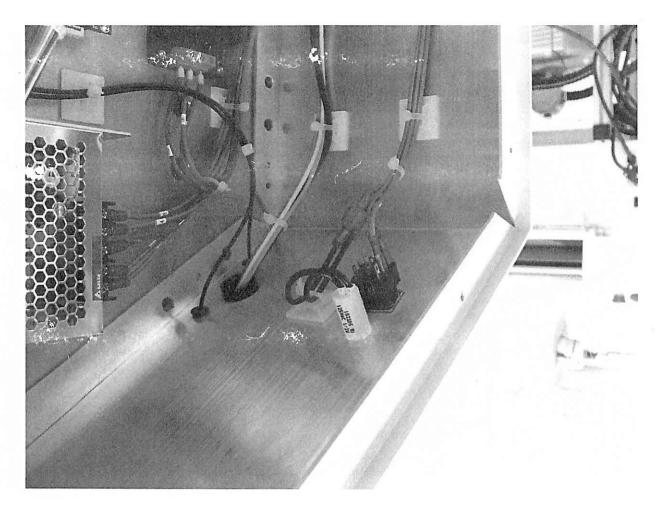


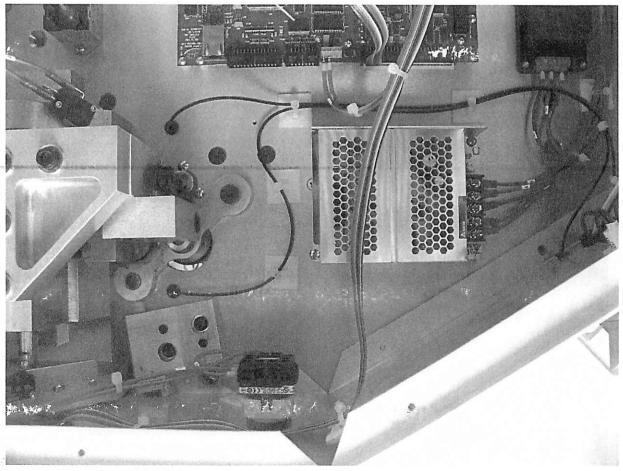


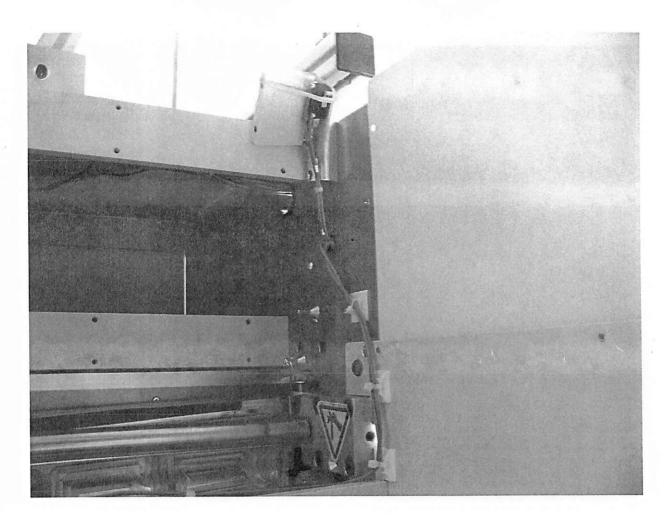


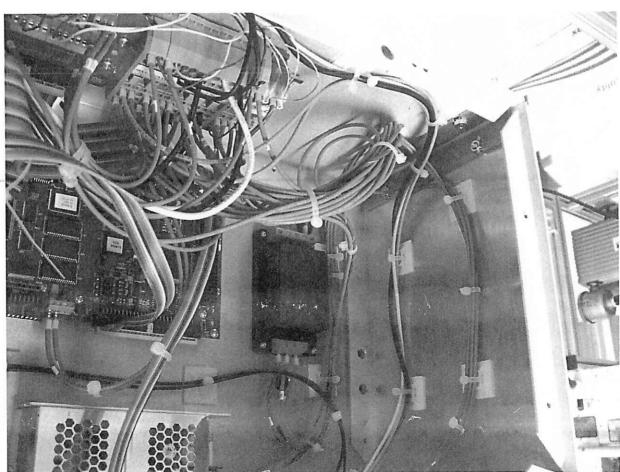


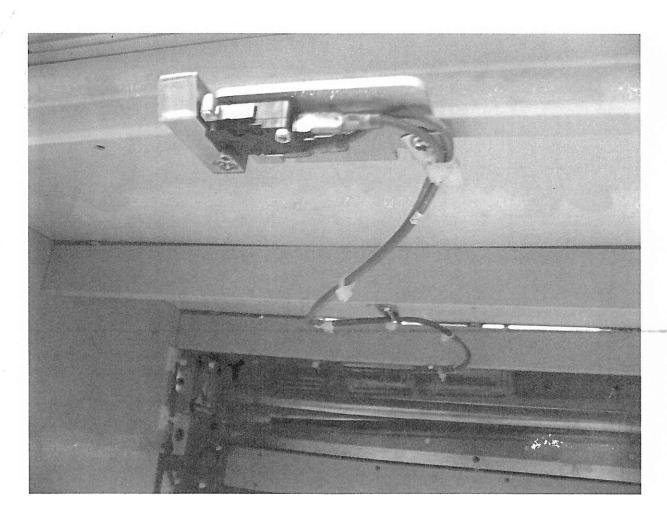


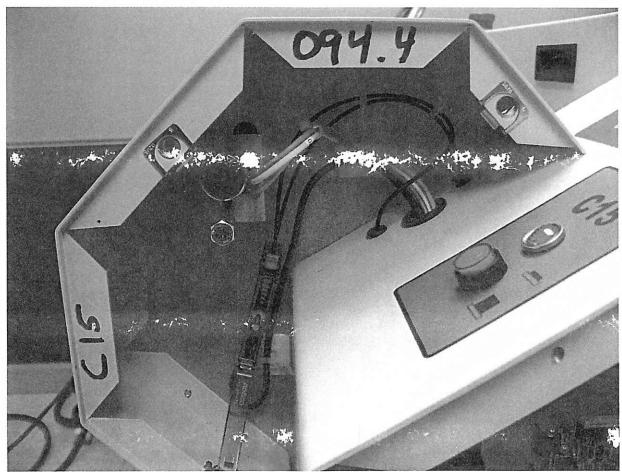


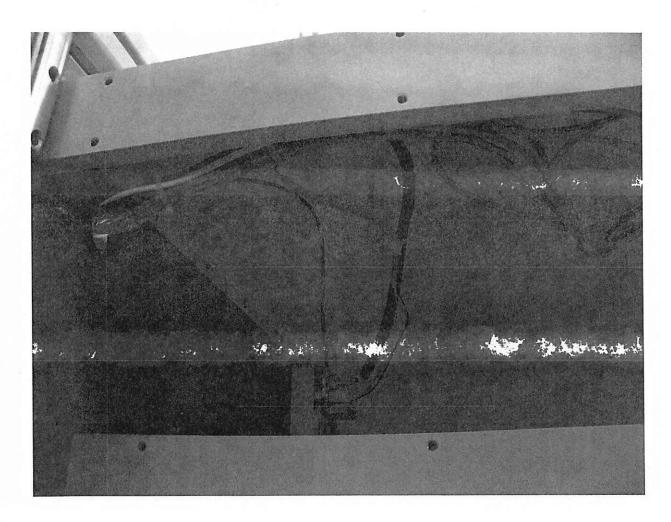


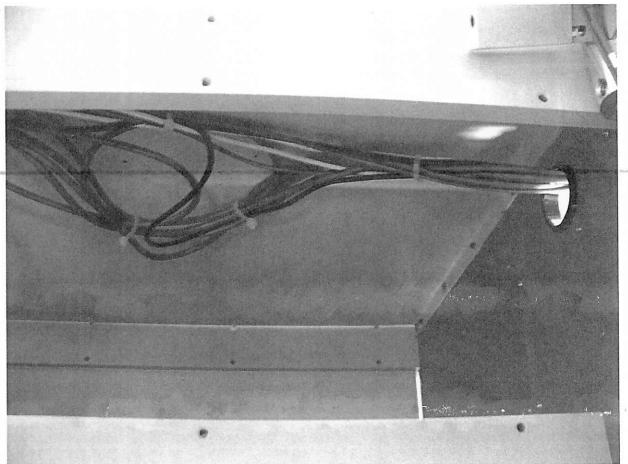


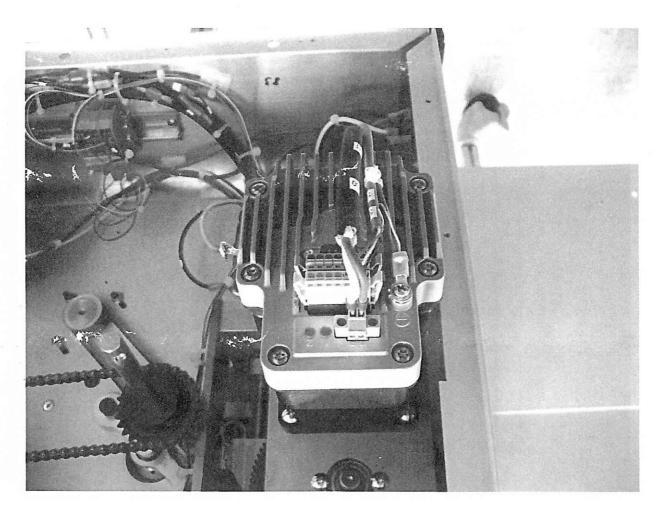


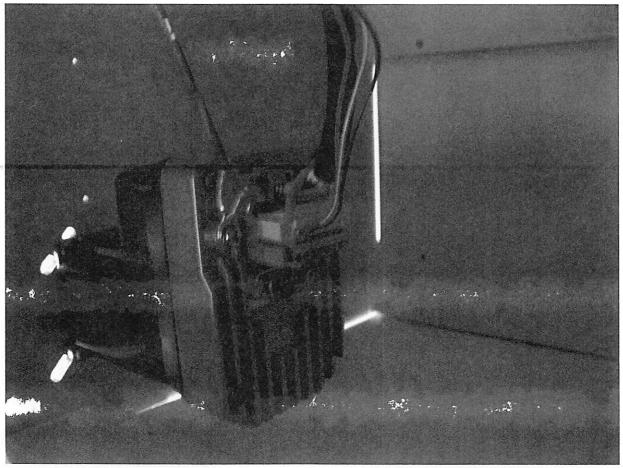


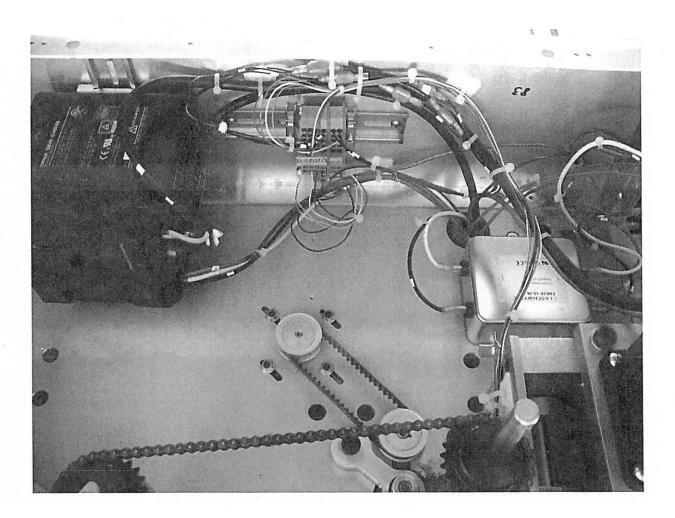


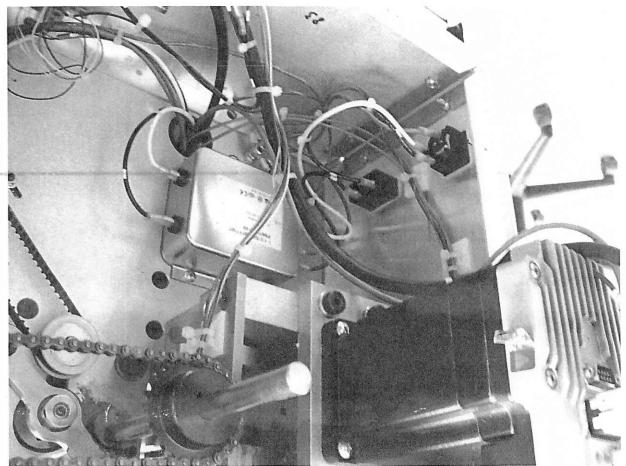


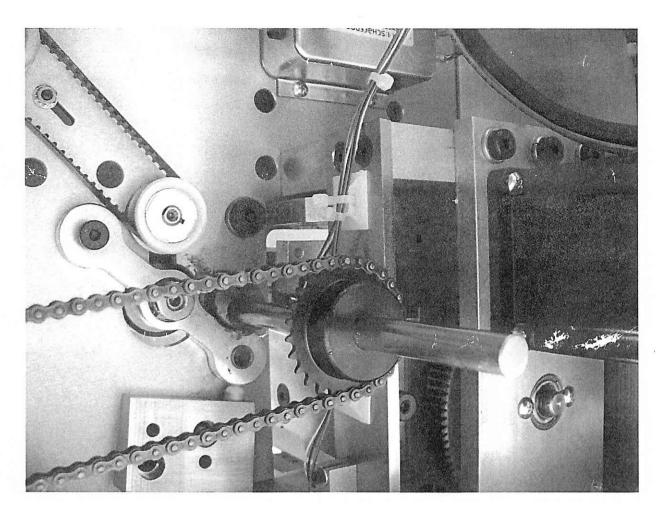


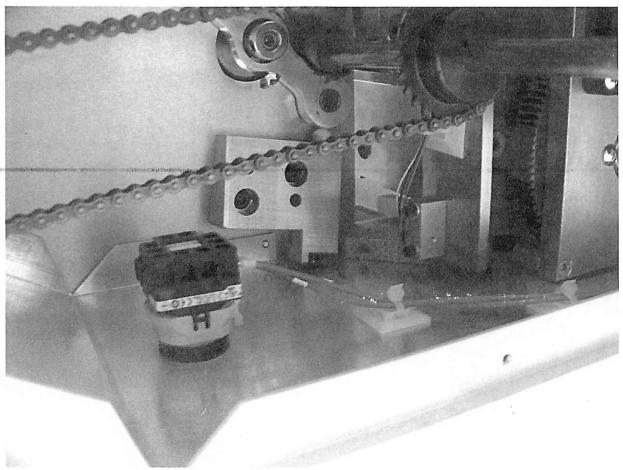


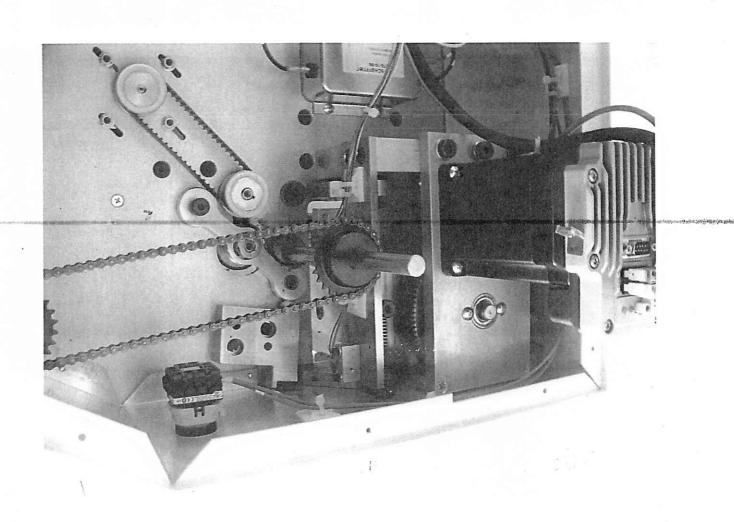






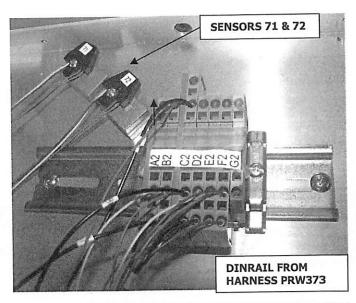


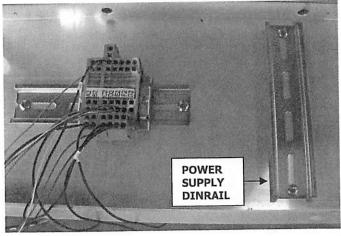


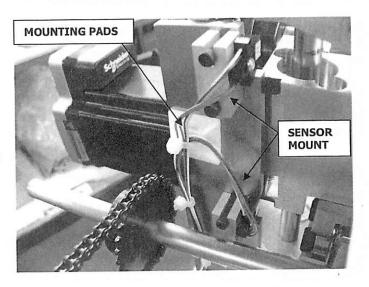


C15 HOUSINGS & WIRING

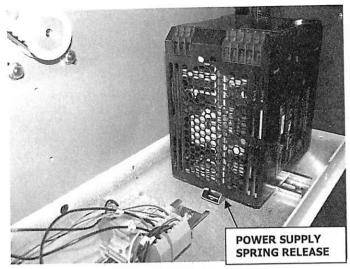
- ADD TO THE LEFT BOTTOM HOUSING 1) (2) DINRAIL COMPONENT MOUNTING STRIPS (C15 206.4) RACK 24. ONE OF THE DINRAIL COMPONENT MOUNTING STRIPS IS IN WIRING HARNESS C15 110V CUTTER (PRW373) AS02 WITH **TERMINAL A2 THRU G2 ATTACHED** ALONG WITH (2) SENSORS #71 AND **#72. SECURE THE DINRAIL WITH A2** FACING LEFT/REAR. USE 8-32 X 3/8 THMS WITH A #8 KEPS HEX NUT ON THE UNDERSIDE OF THE HOUSING. THE SECOND DINRAIL IS FOR A POWER SUPPLY. SECURE VERTICALLY WITH (2) 8-32 X 3/8 THMS AND #8 KEPS HEX NUTS ON THE HOUSING UNDERSIDE.
- 2) SECURE THE #71 AND #72 SENSORS EACH TO A SENSOR MOUNT (C15 229.4) RACK 24. USE A 4-40 X 3/8 PHMS THROUGH THE SENSOR CHANNEL. THE SENSORS WILL FACE THE REAR OF THE CUTTER AND THE WIRES FACE THE FRONT. SENSORS LOCATE ABOUT FLUSH WITH THE FRONT OF THE SENSOR MOUNT AND CONTINUE PAST THE SENSOR MOUNT IN THE REAR.
- THE SENSOR MOUNTS WITH #71 FOR THE TOP SENSOR, SECURE THROUGH THE TOP AND BOTTOM CHANNELS TO THE SENSOR BLOCK MOUNT. THE BOTTOM SENSOR IS #72. USE (2) 6-32 X 3/4 SHCS FOR EACH SENSOR MOUNT, CENTERED IN THE CHANNEL. ONLY A FEW THREADS HOLD THE SENSOR MOUNTS.
- 4) GENTLYSECURE SENSOR WIRES TO THE SENSOR BLOCK MOUNT WITH 1" MOUNTING PADS (PRC081) AS09. RAISE THE BOTTOM SENSOR WIRES TO MEET THE TOP SENSOR WIRES. USE (2) MOUNTING PADS AND CABLE TIES.

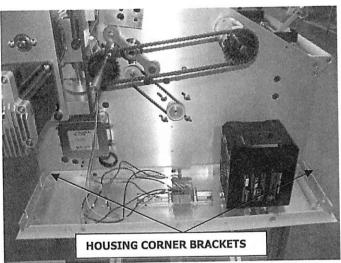


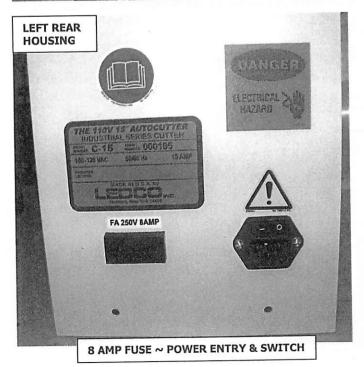




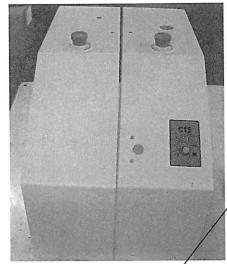
- THE OMRON POWER SUPPLY 48V-10A (PRC310) AS02 FITS ON THE LEFT SIDE, FRONT DINRAIL. ORIENT THE UPPER TERMINALS TO THE LEFT/REAR. PULL THE SPRING RELEASE OUTWARD AND SET THE FRONT EDGE OF THE POWER SUPPLY TRACKS OVER THE DINRAIL. WITH THE SPRING RELEASE STILL OPEN, PUSH THE REAR TRACKS OVER THE DINRAIL. RELEASE THE SPRING, LOCKING IN PLACE.
- 6) PLACE A FRONT AND REAR HOUSING CORNER BRACKET (EP30 091.4) 1MS01 ON THE RIGHT AND LEFT BOTTOM HOUSINGS, ORIENTED WITH THE BREAK DOWN AND OUTWARD. USE 10-32 X 3/8 THMS WITH A #10 KEPS HEX NUT ON THE INSIDE THREADS. SNUG THESE FITTINGS, AS ADJUSTMENT MAY BE NEEDED TO FIT THE TOP HOUSINGS.
- 7) PREPARE THE LEFT TOP HOUSING (C15 351.4) AS14 BEFORE SECURING.
- 8) INSERT (2) SLO BLO 8 AMP FUSES
 (PRF137) AS09 INTO A LITTLEFUSE
 FUSE HOLDER (PRF145) RACK 12. ONE
 FUSE IS A SPARE. SNAP FUSE HOLDER
 INTO LOWER REAR LEFT HOUSING.
- 9) CENTER AND ADHERE ABOVE FUSE HOLDER AN FA 250V 8 AMP LABEL (LAB123) AS08.
- 10) CENTER THE GRAY C-15 SERIAL TAG 110V 15" CUTTER (LAB156) WITH JOB ABOVE THE FUSE LABEL.
- 11) ABOVE THE SERIAL TAG CENTER AND ADHERE A BLUE READ OPERATORS MANUAL LABEL (LAB142) ASO8.
- 12) INSERT A POWER ENTRY WITH LINE SWITCH (PRS314) RACK 3, POSITION SWITCH UPWARD AND GROUND POST DOWNWARD. SECURE TO LOWER REAR HOUSING, RIGHT OF THE FUSE HOLDER. USE (2) 6-32 X 3/8 FHMS WITH #6 KEPS HEX NUTS ON INSIDE.
- 13) ABOVE THE POWER ENTRY CENTER AND ADHERE A YELLOW GENERAL DANGER LABEL (LAB52) AS08.



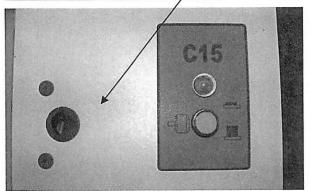


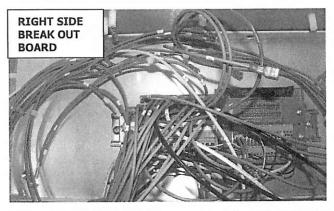


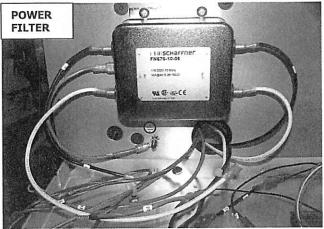
- 14) ABOVE THE GENERAL DANGER LABEL CENTER A RED DANGER ELECTRICAL HAZARD LABEL (LAB50) AS08.
- 15) BOTH LEFT AND RIGHT TOP HOUSING (C15 353.4) AS18 HAVE AN E-STOP SWITCH (PRS374) AS07 EACH WITH A YELLOW E-STOP WASHER (PRS375) AS07. ALIGN WASHER ON THE OUTER E-STOP PORTION. INSERT INTO UPPER FRONT HOUSINGS, CATCH TOOTH IN HOUSING NOTCH. THE "EMERGENCY" PRINTING FACES THE SIDES. THREAD UP WASHER AND TIGHTEN. CONNECT LOWER SECTION.
- 16) CENTER, ADHERE RIGHT TOP HOUSING FRONT LABEL C15 DRIVE SWITCH WITH NAME (LAB151) RACK 24. LEFT OF THE LABEL INSERT SNAP BUSHING (PRB064) AS09. ADD (2) INSULATION GROMMETS (PRB105) RACK 12.
- 17) INSERT GREEN 110V LOW PROFILE INDICATOR LIGHT (PRL198) RACK 8 INTO UPPER OPENING OF C15 LABEL.
- 18) BELOW THE GREEN INDICATOR LIGHT,
 INSERT A POSITIVE GREEN DRIVE
 SWITCH (PRS080) RACK1. UNTHREAD
 TOOTHED KEEPER ON GREEN SWITCH
 AND INSERT INTO HOUSING WITH THE
 LARGER TOOTH UPWARD. SNAP
 TERMINAL SECTION ON, 'COMMON'
 POST WILL BE DOWNWARD.
- 19) FROM THE WIRING HARNESS SECURE
 THE WIRED GREEN BREAK OUT BOARD
 DINRAIL TO THE BOTTOM RIGHT
 HOUSING, WITH THE GREEN BOARD
 SECTION TO THE RIGHT/REAR. USE
 (2) 8-32 X 3/8 THMS WITH A #8 KEPS
 HEX NUT ON THE BOTTOM HOUSING
 UNDERSIDE.
- 20) THROUGH THE LARGE SNAP BUSHING, RUN SOME OF THE BREAK OUT BOARD WIRES. THE 14 GAUGE BLACK #6 AND WHITE #5 WIRES CONTINUE TO THE POWER FILTER 'X'. CONNECT WHITE #5 TO LOAD 'N' POST AND BLACK #6 TO LOAD 'P' POST. FROM SMALL BAG CONNECT BLACK #4 WIRE TO LINE 'P'



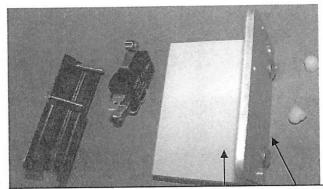
RIGHT TOP HOUSINGS ~~~ GROMMETS & BUSHING



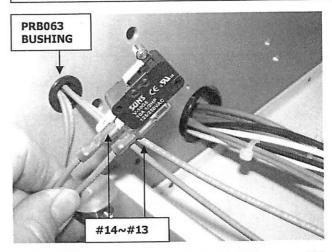




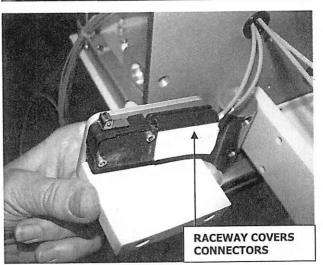
- AND WHITE #1 TO LINE 'N.' THE LINE GREEN GROUND WIRE IS #11.
- 21) FROM THE REAR, INNER RIGHT SIDE PANEL INSERT A MEDIUM SNAP BUSHING (PRB063) RACK 8, FLANGE INWARD.
- 22) ORIENT ROUNDED CORNERS UPWARD AND 4-40 THREADS INWARD, SECURE AN EXIT CHUTE SAFETY SWITCH MOUNT (C15 154.4) RACK 24 TO A PAINTED EXIT CHUTE SAFETY SWITCH MOUNT BAR (C15 156.4) RACK 24. USE (2) 8-32 X 3/8 THMS.
- 23) THROUGH THE MEDIUM SNAP
 BUSHING ON THE RIGHT SIDE PANEL,
 INSERT THE BROWN 18 GAUGE
 BUNDLE OF (4) WIRES WITH THE
 SHORT BROWN #13 AND #14.
 *****THE (2) LONG BROWN WIRES
 EXITING THE LEFT SIDE PANEL.
- 24) WITH ROLLER UPWARD, TERMINATE
 #13 WIRE ON THE OFFSET 'COM' POST
 OF AN EXIT CHUTE CHERRY MINI
 ROLLER SWITCH (PRS370) RACK 13
 'CC'. TERMINATE #14 WIRE ON 'NO'
 POST, CLOSEST TO THE OFFSET POST.
- 25) TO PROTECT THE CHERRY MINI
 ROLLER SWITCH CONNECTORS A PRECUT SWITCH CONNECTORS COVER
 (C15 163.4) RACK 24 IS USED. ALIGN
 THE ROLLER UPWARD. INSERT (2) 440 X ³/₄ SHCS THROUGH THE CUT OUT
 SECTION OF THE COVER AND INTO THE
 CHERRY ROLLER. CLOSE THE
 RACEWAY PORTION OVER THE
 CONNECTORS.
- THREAD THE 4-40 X 3/4 SHCS THAT ARE THROUGH THE CONNECTORS COVER AND CHERRY MINI ROLLER SWITCH INTO THE EXIT CHUTE SAFETY SWITCH MOUNT ORIENTED WITH THE ROLLER UPWARD AND THE SWITCH ON THE INNER RIGHT ANGLE, AS PICTURED. COVER BOTH OF THE EXPOSED 4-40 THREADS WITH A 4-40 NYLON ACORN (.112LDR00).



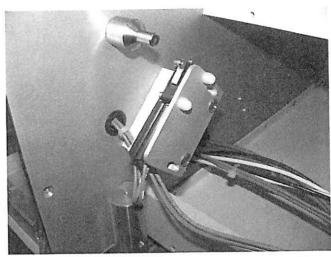
EXIT CHUTE SAFETY SWITCH MOUNT BAR & SS MOUNT

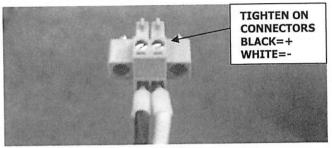


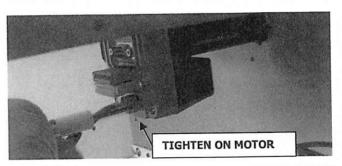


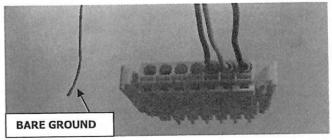


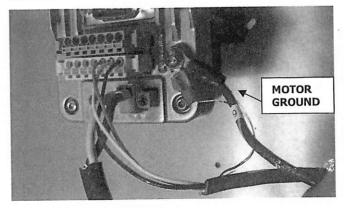
- 27) HOLD THE ROLLER UPWARD AND THE NYLON ACORN TOWARD THE LEFT SIDE PANEL. ALIGN THE PAINTED EXIT CHUTE SAFETY SWITCH MOUNT TO THE RIGHT SIDE PANEL OUTER COUNTERSUNK OPENINGS AND SECURE TO INNER SIDE PANEL WITH 1/4-20 X 3/4 FHSH.
- 28) FROM THE BREAK OUT BOARD RUN THE GREEN GROUND WIRE SECTION ALONG WITH THE GRAY CABELS THROUGH THE LARGER SNAP BUSHING.
- WIRE THE LEXIUM FEED MOTOR 'HH' 29) LOCATED ON THE INNER LEFT SIDE PANEL. SEPARATE FROM THE WIRING HARNESS TAKE THE BLACK SHIELDED **SECTION WITH #23 AND #25. REMOVE** THE SMALL GREEN TERMINAL BLOCK ON THE FEED MOTOR. HOLD THE **BLOCK WITH THE CONNECTION** TERMINALS DOWNWARD. INSERT THE BLACK+ #23 ON THE LEFT AND WHITE-**#25 ON THE RIGHT. TIGHTEN THE** SCREWS ON THESE CONNECTORS. TURN THE BLOCK OVER, SO THE WIRES ARE UPWARD AND RE-INSERT THE GREEN BLOCK BACK INTO MOTOR. SECURE THE GREEN BLOCK WITH SCREWS ON THE SIDES OF THE WIRES.
- 30) REMOVE THE YELLOW TERMINAL BLOCK FROM FEED MOTOR. *** WIRE FROM END CLOSEST TO GREEN TERMINAL. THIS LOOKS OPPOSITE ON WIRING DIAGRAM. FROM THE GRAY HARNESS CABLE WITH RED #24, BLACK #26, WHITE #27 SLIGHTLY TRIM TERMINAL ENDS ON ONE SIDE. INSERT BLACK #26 ON THE RIGHT, THEN WHITE #27, THEN RED #24.
- 31) TWIST THE BARE GROUND WIRES TOGETHER AND TERMINAGE WITH A RED #6 RING CONNECTOR (PRT296).
- 32) UNTHREAD MOTOR GROUND SCREW.
 LOCATE GREEN #69 GROUND WIRE.
 CRIMP A BLUE RING CONNECTOR
 (PRT276) FOR MOTOR. USE A #8 STAR
 WASHER, THE #69 GREEN GROUND
 WIRE, THEN THE BARE YELLOW



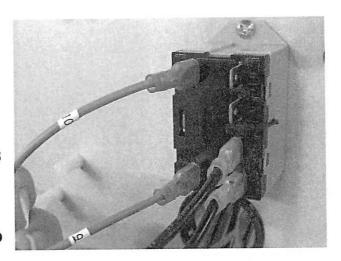


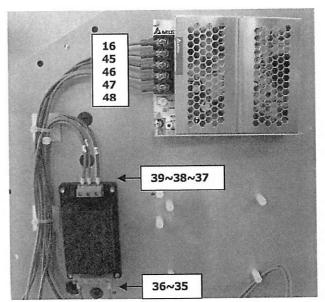


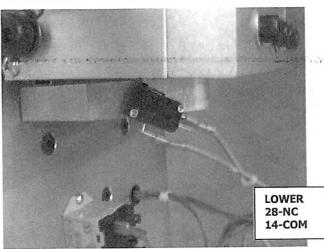




- TERMINAL BLOCK GROUND WIRE. SECURE THE MOTOR GROUND SCREW.
- 33) ON THE RIGHT SIDE WIRE THE 110V
 RELAY 'Y' FROM THE BREAK OUT
 BOARD WIRES. RELAY 1 IS BROWN
 WIRE #10, RELAY 0 IS BROWN #9,
 RELAY 4 IS BLACK #8 AND RELAY 2 IS
 BLACK #7. BOTH OF THE BLACK WIRES
 ARE 14 GAUGE. RELAY 8 AND 6 POSTS
 ARE NOT USED.
- 34) ON THE RIGHT SIDE PANEL, RUN THE FORKED BROWN AND GREEN WIRES TO THE FRONT OF THE (2) POWER SUPPLIES. WIRE THE 24VDC POWER SUPPLY 'S' USING THE FORK CONNECTORS. WORKING DOWNWARD FROM THE TOP; CONNECT THE UPPER POST WITH BROWN #16, BROWN #45, GREEN 46, BROWN #47 AND BROWN #48 ON THE BOTTOM POST.
- 35) BELOW AND MORE TO THE FRONT OF THE RIGHT SIDE PANEL IS THE 5VDC POWER SUPPLY 'BB'. SLIGHTLY TRIM THE ENDS OF THE FERRULE CONNECTORS, IF NECESSARY. SECURE THE UPPER THREE WIRES STARTING FROM THE FRONT/LEFT; BROWN #39, BROWN #38 AND GREEN #37. THE LOWER, LONGER TERMINAL BLOCK HAS A WIRE AT EACH END. ON THE FRONT/LEFT POST SECURE BROWN #36 AND ON THE RIGHT/REAR POST SECURE BROWN #35.
- 36) TIE AND PRESS CLIP THE (2) POWER SUPPLY WIRE BUNDLES ALONG THE FRONT SIDE PANEL AFTER THEIR WIRING IS COMPLETE.
- 37) WIRE THE TOP 'JJ' AND BOTTOM 'FF'
 RIGHT SIDE CUTTING MODULE
 CHERRY ROLLER SWITCHES. THE
 BOTTOM CHERRY ROLLER SWITCH IS
 LOCATED ON THE LOWER GUIDE BAR
 MOUNT HAS THE ROLLER UPWARD AND
 THE OFFSET 'COM' POST DOWNWARD.
 CONNECT BROWN #14 TO THE OFFSET
 'COM' POST. CONNECT BROWN #28 TO
 THE MORE DISTANT 'NC' POST.



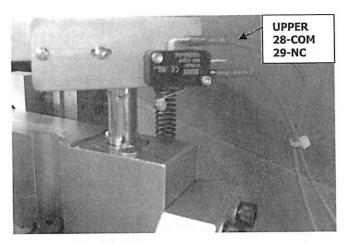


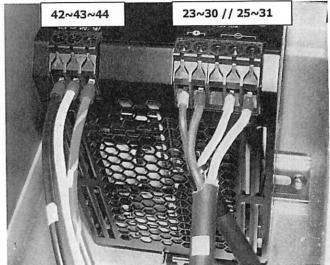




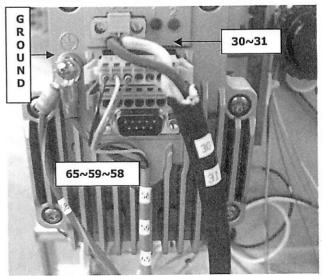
RIGHT SIDE: ADDING BLADE CHANGE TOOL BY BOTTOM CHERRY ROLLER

- 38) THE TOP CHERRY ROLLER SWITCH IS LOCATED ON THE TOP RIGHT GUIDE BAR MOUNT BRACKET OF THE CUTTING MODULE. THE ROLLER IS LOCAED DOWNWARD AND THE OFFSET 'COM' POST IS LOCATED UPWARD. CONNECT BROWN #28 TO THE OFFSET 'COM' POST. CONNECT BROWN #29 TO THE MORE DISTANT 'NC' POST, CLOSER TO THE ROLLER.
- ON THE LEFT BOTTOM HOUSING WIRE 39) THE 48V POWER SUPPLY 'NN'. FROM THE HARNESS CONNECT BLUE FERRULE ENDS TO THE INNER (3) TERMINALS. UNTHREAD TERMINALS AND INSERT **BLACK+ #42 CLOSEST TO SIDE PANEL,** WHITE- #43 AND GREEN GROUND #44. TIGHTEN THE TERMINALS. THE OUTER BANK OF (5) TERMINALS CONNECT WITH (2) SEPARATE BLACK COVERED CABLES THAT RUN BETWEEN THE FEEDER AND CUTTING MOTORS. **INSERT BLACK+ #23 TO THE INNER** POST, INSERT WHITE- 25 TO THE 4TH POST OUTWARD. THESE WIRES HAVE YELLOW FERRULES, ARE 18 GAUGE WIRE AND ARE FROM THE FEEDER MOTOR. INSERT BLACK+ #30 BESIDE FEEDER MOTOR BLACK WIRE AND **INSERT WHITE- #31 TO THE OUTERMOST POST. THIS CABLE HAS** RED FERRULES, IS 16 GAUGE WIRE AND IS FROM TO CUTTER MOTOR. TIGHTEN ALL SCREWS ON THE FERRULES.
- 40) CONTINUE THE BLACK CABLE WITH RED FERRULE ENDS TO THE CUTTER MOTOR 'II'. SECURE GREEN, YELLOW AND GRAY TERMINAL BLOCKS, POSTS DOWNWARD ON ALL, TRIM FERRULE **ENDS AND INSERT INTO THE GREEN** TERMINAL BLOCK. INSERT BLACK+ #30 ON THE LEFT AND WHITE- #31 ON THE RIGHT. TIGHTEN SCREWS HOLDING FERRULES AND TERMINAL BLOCK TO MOTOR. THE YELLOW TERMINAL CONNECTIONS SPRING LOAD. INSERT THE THIN WIRES FROM THE GRAY CABLE. THE BLACK #65 IS ON THE LEFT END, CLOSEST TO THE



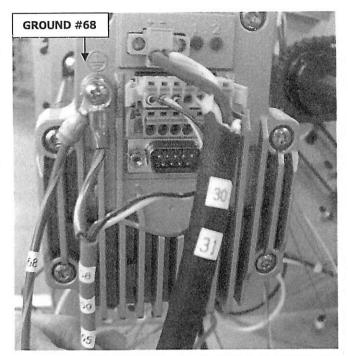


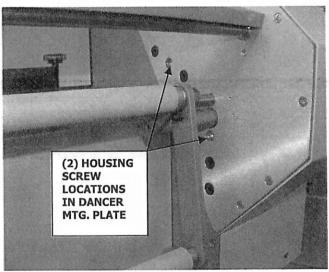


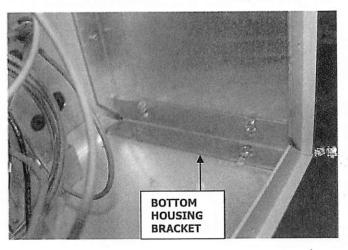


GREEN TERMINAL. WHITE #59 IS NEXT AND RED #58 IS BESIDE THE WHITE, THESE FERRULES ARE A LIGHT BLUE. PUSH ALL THE WAY INTO THE TERMINAL BLOCK. TWIST THE BARE **GROUND WIRES TOGETHER, TRIM** ENDS. WIRES CAN BE COVERED WITH SHEATHING OR NOT. CRIMP A RED #6 RING CONNECTOR ONTO THE GRAY CABLE GROUND WIRE. UNTHREAD THE CUTTER MOTOR GROUND SCREW. USE A #8 STAR WASHER, THE #68 GREEN **GROUND WIRE AND THE CRIMPED GROUND WIRE FOR THE YELLOW** TERMINAL BLOCK. RETHREAD INTO THE CUTTER MOTOR GROUND LOCATION.

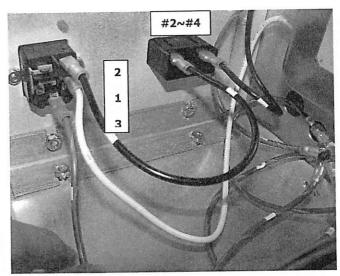
- 41) MOVE ALL WIRES AWAY FROM SIDE PANEL EDGES AND SECURE THE RIGHT TOP HOUSINGS TO THE SIDE PANEL WITH (9) 8-32 X ½ FHMS FROM THE INNER SIDE PANEL COUNTERSINKS. THE DANCER MOUNTING PLATE HAS OPENINGS FOR (2) OF THE FRONT SCREWS. THREAD THESE IN WITH A LONG SCREWDRIVER.
- 42) SECURE THE RIGHT TOP HOUSING TO THE BOTTOM HOUSING WITH (2) 10-32 X 3/8 THMS, EACH WITH A #10 KEPS HEX NUT ON THE INNER BOTTOM HOUSING BRACKET. THE BOTTOM HOUSING KEPS NUTS MUST BE QUITE LOOSE. FIT THE HOUSING TO THE BOTTOM HOUSING BRACKET CHANNELS. USE A NUT DRIVER TO TIGHTEN ALL (4) KEPS HEX NUTS.
- 43) MOVE WIRES AWAY FROM SIDE PANEL EDGES AND SECURE THE LEFT TOP HOUSING THROUGH THE SIDE PANELS WITH (9) 8-32 X ½ FHMS.
- 44) SECURE THE LEFT TOP HOUSISNG TO THE BOTTOM HOUSING WITH (2) 10-32 X 3/8 THMS EACH WITH A #10 KEPS HEX NUT ON THE INNER BOTTOM HOUSING BRACKET, FITTING IN THE HOUSING BRACKET CHANNELS. USE A NUT DRIVER TO TIGHTEN KEPS NUTS.

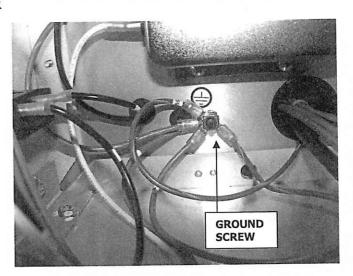


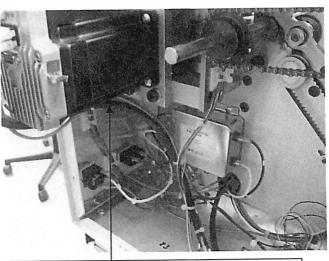




- 45) ON THE REAR, LEFT TOP HOUSING CONNECT THE WIRES FOR THE 8 AMP FUSE 'T' AND THE POWER ENTRY WITH LINE SWITCH 'V'.
- 46) CONNECT THE CLOSEST 8 AMP FUSE TERMINAL POST WITH THE POWER FILTER, 'LINE' SIDE BLACK #4 WIRE. FROM THE SEPARATE BAG CONNECT THE BLACK #2 JUMPER WIRE.
- 47) CONTINUE THE #2 BLACK JUMPER
 WIRE FROM THE 8 AMP FUSE TO THE
 UPPER, INNER 'L' POST ON THE POWER
 ENTRY WITH LINE SWITCH. FROM THE
 POWER FILTER 'LINE' SIDE CONNECT
 THE WHITE #1 'N' WIRE TO THE POWER
 ENTRY SWITCH POST BELOW THE
 BLACK WIRE. FROM THE WIRE
 SEPARATE BAG CONNECT THE GREEN
 #3 GROUND WIRE BETWEEN THE
 LOWER POWER ENTRY SWITCH.
- 48) WITH A #10 STAR WASHER ON THE SIDE PANEL GROUND SCREW, ADD THE POWER ENTRY GROUND WIRE RING CONNECTOR AND SECURE WITH A #10 KEPS HEX NUT. TIGHT WITH A NUT DRIVER. ADD THE REMAINING (4) GROUND SCREWS: CUTTING MOTOR, FEED MOTOR, POWER FILTER AND POWER SUPPLY. USE A NUT DRIVER TO SECURE THESE GROUNDS WITH A #10 HEX NUT.
- 49) RUN THE BROWN #50 AND #66 WIRES ALONG HOUSING TO THE LEFT SIDE E-STOP. SECURE THE YELLOW FERRULE ENDS INTO THE E-STOP.
- 50) SECURE THE BLACK COVERED WIRES ON THE CUTTING MOTOR GREEN TERMINAL BLOCK TO THE MOTOR UNDERSIDE AND CABLE TIE TO ONE OF THE METAL CABLE TIE MOUNTS.
- 51) SECURE THE GRAY COVERED WIRES FROM THE YELLOW TERMINAL BLOCK ON THE CUTTING MOTOR TO THE MOTOR UNDERSIDE USING THE SECOND METAL CABLE TIE MOUNT.

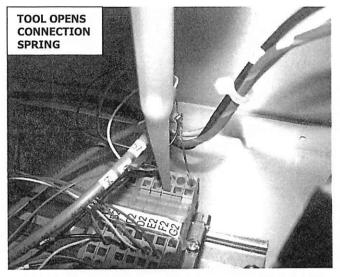


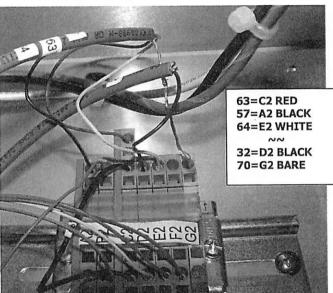


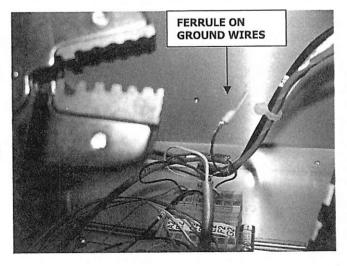


CUTTING MOTOR WIRES SECURED ON UNDERSIDE

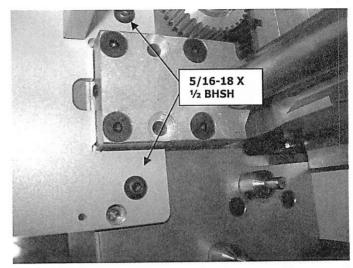
- 52) ON THE LEFT BOTTOM HOUSING ARE TERMINALS FOR FERRULE CONNECTORS ON THE DINRAIL. TO **OPEN THE TERMINALS USE THE WHITE** PLASTIC INSERTION TOOL LOCATED AT THE WIRING STATION. OPEN TERMINALS BY INSERTING THE END OF THE TOOL INTO THE SOUARE BESIDE THE ROUND CODED TERMINAL LOCATION. DEPRESS THE TOOL IN SQUARE UNTIL YOU HEAR IT 'CLICK' OPEN, HOLD TOOL IN THAT POSITON. INSERT FERRULE END AND REMOVE TOOL, WHICH RELEASES SPRING HOLDING FERRULE.
- 53) CONNECT THE THIN 24 GAUGE WIRES ON THE GRAY CABLES WHICH CORRESPOND TO THE NUMBERS ON THE WIRING DIAGRAM TO THE TERMINAL BANKS CLOSER TO THE SIDE PANEL.
- 54) THE THIN RED WIRE #63 INSERTS
 INTO 'C2' THE INNERMOST, SINGLE
 BANK. THE THIN BLACK WIRE #57
 INSERTS INTO THE SECOND BANK 'A2'
 TO THE REAR. THE THIN WHITE WIRE
 #64 INSERTS INTO THE SECOND BANK
 'E2' LOCATION. TEMPORARILY LEAVE
 THE OPEN GROUND WIRE.
- 55) THE SECOND GRAY CABLE HAS ONLY ONE WIRE TERMINATED WITH A FERRULE. THIS IS BLACK #32. INSERT BLACK #32 INTO 'D2' ON THE SECOND BANK.
- 56) TWIST THE BARE GROUND WIRE FROM BOTH CABLES TOGETHER. THE GROUND WIRES THEN BECOME #70 ON THE WIRING DIAGRAM. TRIM THE ENDS OF THESE WIRES AND SECURE A LIGHT BLUE FERRULE CONNECTOR #433 TO THE GROUND ENDS. INSERT THE GROUND WIRE FERRULE INTO THE SECOND BANK 'G2' THE TERMINAL TO THE FRONT.



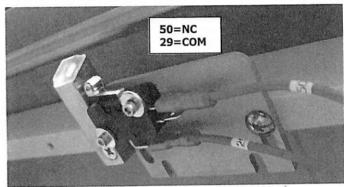




57) FROM THE REAR OF THE C15 INSERT THE EXIT CHUTE ASSEMBLY, FITTING THE SAFETY DOOR MOUNTING PLATE NOTCHES OVER THE BEARING AND PIN MOUNTS ON THE RIGHT AND LEFT INNER SIDE PANELS. ALIGN SAFETY DOOR MOUNTING PLATE OPENINGS WITH THE SIDE PANEL THREADS. THIS MAY TAKE TWO PEOPLE, AS IT IS A VERY TIGHT FIT. SECURE THE EXIT CHUTE ASSEMBLY TO THE SIDE PANEL WITH (2) 5/16-18 X ½ BHSH ON EACH SIDE.

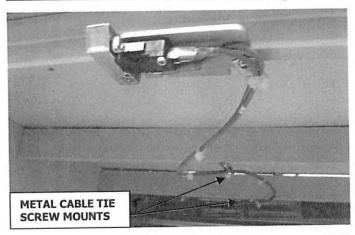


58) WIRE THE CHERRY MINI ROLLER
SAFETY SWITCH ON THE OUTER EXIT
CHUTE ASSEMBLY 'KK' WITH BROWN
WIRES #29 AND #50. TERMINATE
#29 ON THE OFFSET 'COM' POST.
TERMINATE #50 ON THE 'NC' POST
FURTHER AWAY AND CLOSER TO THE
ROLLER.

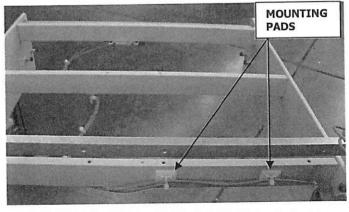


#29 TO THE UNDERSIDE LIP OF THE EXIT CHUTE ASSEMBLY BRACE BARS.

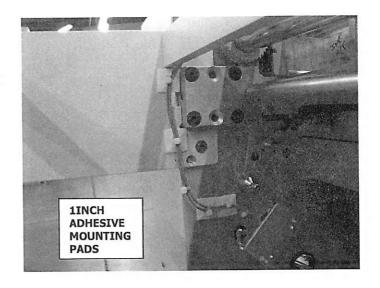
USE A METAL CABLE TIE SCREW MOUNT (PRC305) LOFT 6 ON THE MIDDLE AND INNER BRACE BAR HELD WITH AN 8-32 X 3/8 THMS, LOCTITE THREADS. THEN CABLE TIE THE BROWN WIRES TO THE METAL SCREW MOUNT.



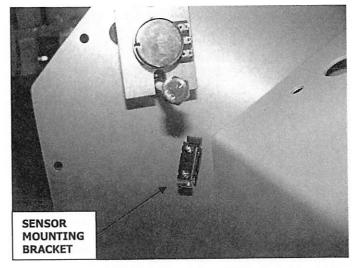
60) ON THE FRONT SIDE OF THE INNER EXIT CHUTE BRACE BAR ADD (2) 1" MOUNTING PADS (PRC081) AS09 ALONG THE LOWER SECTION AND CABLE TIE THE BROWN WIRES.



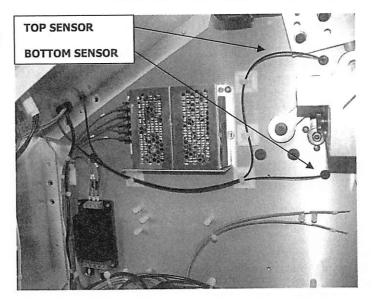
61) PLACE (2) ADHESIVE MOUNTING PADS ON THE INNER EXIT CHUTE DOOR MOUNTING PLATES AND (2) HORIZONTALLY ON THE INNER SIDE PANEL JUST ABOVE THE CHERRY MINI ROLLER SWITCH.



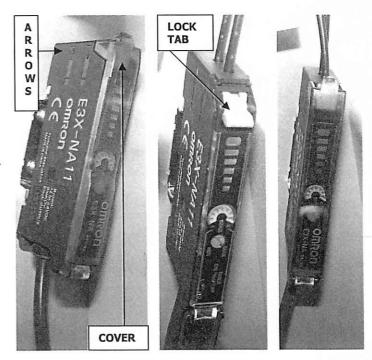
62) SECURE A SENSOR MOUNTING
BRACKET (PRC276M) RACK 12 TO
THE OUTER DANCER MOUNTING
PLATE, LOCATED BELOW THE
POTENTIOMETER. ORIENT THE
BRACKET WITH THE BREAK CLOSER
TO THE SIDE PANEL AND THE OPEN
SIDE OUTWARD. USE (2) 4-40- 1/4
PHMS TO SECURE BRACKET.

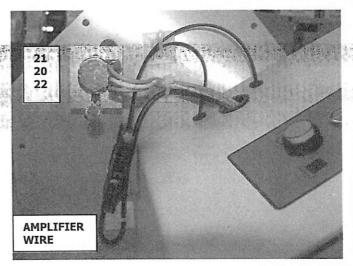


63) ON THE OUTER RIGHT SIDE PANEL, ALIGN THE TOP AND BOTTOM SENSOR CABLES TO THE INSULATION GROMMETS IN THE TOP HOUSING. **USE 1" ADHESIVE MOUNTING PADS** STUCK TO THE SIDE PANEL TO HOLD CABLES. BE VERY CAREFUL NOT TO BEND OR PINCH CABLE AS YOU WORK THEM TO THE GROMMETS. **FOLLOW THE PATTERN SHOWN ON** THE ACCOMPANYING PICTURE. USE (3) MOUNTING PADS BY THE POWER SUPPLY, RUN CABLE BELOW POWER SUPPLY, WITH ANOTHER MOUNTING PAD. EXIT THE TOP SENSOR CABLE THROUGH THE UPPER GROMMET. **EXIT THE BOTTOM SENSOR CABLE** THROUGHT THE LOWER GROMMET.



- 64) WITH THE CABLE DOWNWARD, SNAP
 AN AMPLIFYING PHOTOELECTRIC
 SWITCH (PRC276) RACK 12 ONTO
 THE SENSOR MOUNTING BRACKET.
 THERE ARE ARROWS TO INDICATE
 TOP AND BOTTOM SENSOR
 LOCATION. THE UPWARD FACING
 ARROW IS FOR THE TOP SENSOR
 CABLE AND THE DOWNWARD FACING
 ARROW IS FOR THE BOTTOM SENSOR
 CABLE.
- UNSNAP THE AMPLIFYER COVER OF 65) AND LET IT DROP DOWN. UNSNAP THE TAB WHICH OPENS THE CABLE LOCKS. MEASURE THE CABLE TO LEAVE A COMFORTABLE LOOP AT THE TOP AND CUT THE CABLE WITH THE TOOL SUPPLIED. USE ANY OF THE THREE LARGER HOLES TO CUT THE CABLE, BUT USE EACH HOLE ONLY ONCE. INSERT THE TOP SENSOR CABLE TO THE 'ARROW UP' INNER HOLE. INSERT THE LOWER SENSOR CABLE INTO THE 'ARROW DOWN' OUTER HOLE, CLOSE THE TAB TO LOCK CABLES. CLOSE THE COVER. SECURE THE SENSOR CABLES TO DANCER MOUNTING PLATE WITH ADHESIVE MOUNTING PAD.
- 66) WIRE POTENTIOMETER '00'
 TERMINALS WITH GRAY, YELLOW
 AND ORANGE WIRES FROM BREAK
 OUT BOARD, THROUGH SNAP
 BUSHING IN HOUSING. TERMINATE
 ORANGE #22 ON THE LOWER POST.
 TERMINATE YELLOW #20 ON THE
 MIDDLE POST. TERMINATE GRAY
 #21 ON THE UPPER POST.
- 67) PLACE AN ADHESIVE PAD UNDER THE AMPLIFIER WIRE AND RUN IT UP WITH THE POTENTIOMETER WIRES THROUGH THE SNAP BUSHING.
- 68) ALIGN THE LIP OF A POTENTIOMETER HOUSING (C15 094.4) ASO1 ALONG THE OUTER DANCER MOUNTING PLATE. THE HOUSING LIP RESTS ON THE DANCER MOUNTING PLATE. SECURE THE POTENTIOMETER HOUSING THROUGH THE

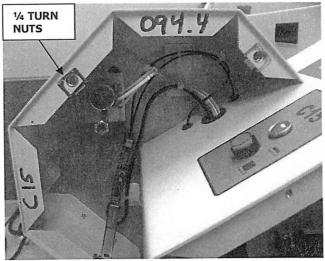


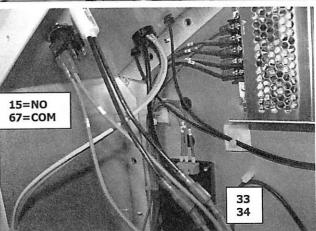


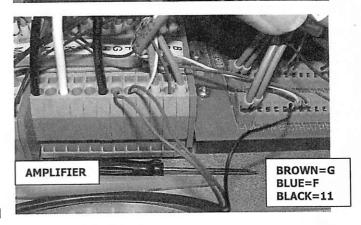


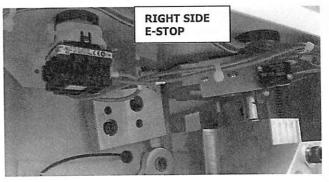
COUNTERSUNK OPENINGS ON THE INNER MOUNTING PLATE. USE (7) 8-32 X 3/8 FHMS. HOUSING ENDS MAY NEED SANDING TO MEET UP WITH DANCER PANEL COUNTERSINKS.

- 69) SNAP (3) ¼ TURN LATCH NUTS (PML002) AS07 OVER THE OUTER LIP OF THE POTENTIOMETER HOUSING.
- 70) CRIMP A RED MALE CONNECTOR
 (PRT330) ON EACH OF THE LOW
 PROFILE GREEN LIGHT 'W' WIRES.
 CONNECT THESE MALE ENDS WITH
 BROWN WIRES #33 AND #34 FROM
 THE BREAK OUT BOARD.
- 71) TERMINATE BROWN WIRES ON THE POSITIVE DRIVE SWITCH 'EE' FROM THE BREAK OUT BOARD. ON OUTER, LOWER 'COM' POST CONNECT #67. ON THE 'NO' OUTER, MIDDLE POST, BESIDE THE 'COM' CONNECT #15.
- 72) TERMINATE THE BLUE #61, BLACK
 #60 AND BROWN #62 WIRES ON THE
 AMPLIFYING PHOTOELECTRIC
 SWITCH 'R'. THE NUMBERS ARE
 INIDCATED ON THE WIRING
 DIAGRAM SHEET 1. BE CERTAIN THE
 WIRES WILL REACH BETWEEN THE
 GREEN AND GRAY BREAK OUT
 BOARDS BEFORE TERMINATING
 WIRES WITH LIGHT BLUE FERRULES
 (PRT433) LDW1.
- 73) LOOSEN THE SCREW ON THE GREEN BREAK OUT TERMINAL #11 AND INSERT THE BLACK WIRE #60.
 TIGHTEN SCREW TO HOLD. ON THE GRAY BREAK OUT TERMINALS USE PLASTIC INSERTION TOOL AND CONNECT BLUE WIRE #61 INTO OUTER 'F' POST. INSERT THE BROWN WIRE #62 INTO THE 'G' POST.
- 74) CONNECT YELLOW FARRULES ON BROWN HARNESS WIRES #10 AND #12 TO THE RIGHT SIDE E-SWITCH 'LL' BY TOUCHSCREEN.
- 75) CONTINUE BROWN #12 FROM THE E-STOP AND #13 FROM THE HARNESS THROUGH THE SMALL SNAP BUSHING



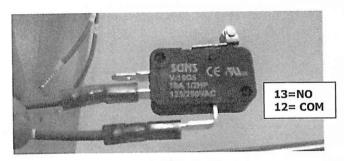


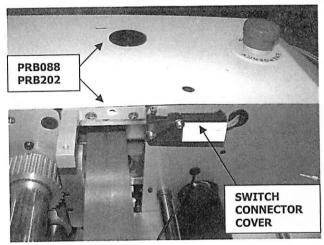


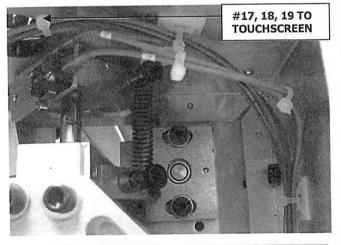


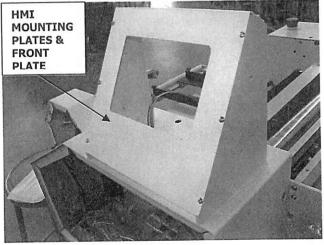
IN THE SIDE PANEL TO THE CHERRY MINI ROLLER SWITCH 'AA'. TERMINATE #12 ON THE OFFSET 'COM' POST AND #13 ON THE 'NO' POST IN THE MIDDLE, CLOSERTO "COM' POST.

- 76) BEFORE SECURING THE WIRED CHERRY MINI ROLLER SWITCH TO THE SIDE PANEL, ALIGN A SWITCH CONNECTORS COVER (C15 163.4) RACK 24, OVER TERMINALS, WITH THE RACEWAY CLOSING UPWARD. SECURE SWITCH AND COVER TO RIGHT INNER SIDE PANEL WITH (2) 4-40 X 3/4 SHCS AND POP RIVET WASHERS.
- 77) INSERT A SNAP BUSHING (PRB088)
 AS09 INTO THE UPPER RIGHT
 HOUSING. EXIT HARNESS WIRES; THE
 GREEN GROUND #17, BROWN #18 AND
 BROWN#19 THROUGH THE SNAP
 BUSHING FOR TOUCHSCREEN.
- 78) INSERT A 3/16" NYLINER BEARING (PRB202) RACK 1 INTO THE RIGHT AND LEFT STATIONARY HINGE, BETWEEN THE SCREWS.
- 79) ADHERE MOUNTING PADS AND CABLE TIES TO THE INNER HOUSING TO HOLD WIRES AND PREVENT STRESSING CONNECTIONS. RUN WIRES DOWN THE INNER REAR HOUSING.
- 80) ORIENT (2) PAINTED UNIVERSAL HMI MOUNTING PLATES (C15 364.4) AS02 TO THE RIGHT TOP HOUSING, WITH THE LONGER ANGLED SIDE OUTWARD TO ACCOMMODATE AN ANGLE FOR THE TOUCHSCREEN. SECURE THE PLATES THROUGH THE HOUSING WITH (3) 6-32 X 1/4 PHMS ON EACH.
- 81) PLACE A PAINTED HMI FRONT PLATE (C15 465.4) AS02 OVER THE HMI MOUNTING PLATES. START (8) 6-32 X 1/4 PHMS THROUGH THE HMI FRONT PLATE INTO THE MOUNTING PLATE, THEN TIGHTEN ALL (8).
- 82) PREPARE A PARKER 6" TOUCHSCREEN (PRC2015) OFFICE. FROM THE TOUCHSCREEN HARDWARE BAG REMOVE THE GREEN SCREW



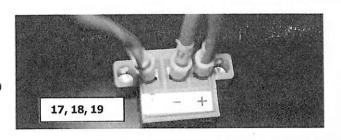


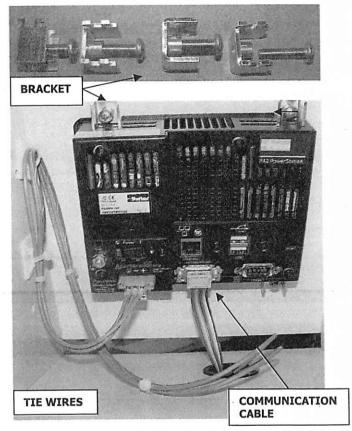


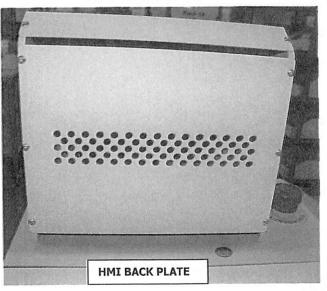


TERMINAL. WIRE THE GREEN
TERMINAL BLOCK 'GG' BY INSERTING
FERRULE CONNECTORS AS FOLLOWS:
#17 GREEN GROUND INTO THE
GROUND POSITION. INSERT #18 INTO
THE MIDDLE — NEGATIVE POSITION
AND #19 IN THE END + POSITIVE
POSITION. TIGHTEN SCREWS.

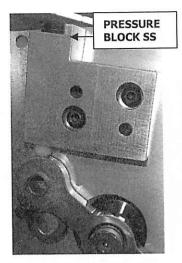
- 83) FROM THE HARDWARD BAG, THREAD THE (4) 10-32 X 1 PHMS INTO THE MOUNTING BRACKETS, FROM THE CHANNEL SIDE. THE BRACKETS HAVE (2) SETS OF TEETH WHICH WILL ALIGN WITH THE TRACKS ALONG RECESSED SIDE OF THE TOUCHSCREEN. SLIDE IN THE MOUNTING BRACKETS AND PUSH FULLY OUTWARD.
- PLUG THE GREEN, WIRED TERMINAL INTO THE RECEIVER ON THE TOUCHSCREEN. THE TERMINAL ONLY FITS ONE WAY. SNUG THE (2) END SCREWS ON THE GREEN TERMINAL TO SECURE WITH A SMALL SCREWDRIVER. SECURE THE COMMUNICATION CABLE (PRC2008) LDW3 INTO THE RECEIVER CLOSER TO THE GREEN TERMINAL BLOCK. SECURE COMMUNICATION CABLE WITH (2) 4-40 X 1/4 PHMS.
- 85) INSERT TOUCHSCREEN UNIT INTO HOUSING OPENING. SNUG THE WIRED MOUNTING BRACKETS ONTO THE HOUSING. ADHERE MOUNTING PADS, CABLE TIE TOUCHSCREEN WIRES. WIRES AND CABLE CONTINUE THROUGH SNAP BUSHING.
- 86) SECURE THE HMI BACK PLATE (C15
 366.4) AS02 ALIGNED WITH THE
 PERFORATIONS HORIZONTAL, TO THE
 REAR OF THE TOUCHSCREEN. THREAD
 (6) 6-32 X 1/4 PHMS INTO THE HMI
 MOUNTING PLATES. THERE IS A GAP
 BETWEEN THE UPPER HMI FRONT
 PLATE AND THE HMI BACK PLATE.

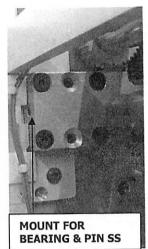


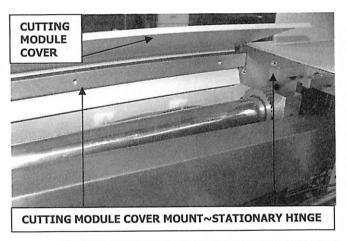


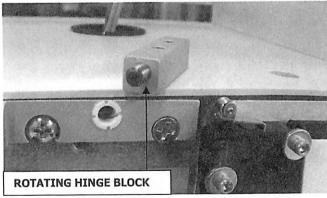


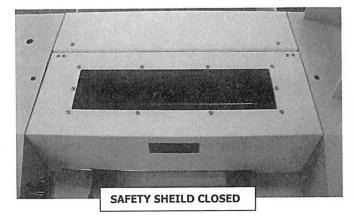
- 87) BEFORE ADDING THE SAFETY SHIELD ASSEMBLY, TEST AND ADJUST THE UP AND DOWN BLADE MOVEMENT.
 MANUALLY LIFT THE BLADE HOLDING THE REAR RECTANGULAR POCKETS.
 THE BLADES MUST CLEAR EACH OTHER WHEN MOVING UP AND DOWN.
- 88) TEST THE BLADE CUTTING ABILITY.
 USE 1.7 MIL UNLAMINATED FILM
 LOADED BETWEEN ROLLS WITH THE
 USE OF A SHEET OF PAPER AS A
 CARRIER. A SECOND PERSON CAN
 HOLD THE TOP BLADE UP WHILE
 LOADING FILM. MANUALLY ADJUST
 THE UPPER 'PRESSURE BLOCK' SET
 SCREW TO MOVE BLADES APART.
 ADJUST THE 'MOUNT FOR BEARING
 AND PIN' SET SCREW TO MOVE TOP
 BLADE FORWARD.
- 89) AFTER YOU ATTAIN A COMPLETE, SMOOTH CUT ACROSS THE FILM, SECURE THE PAINTED CUTTING MODULE ASSEMBLY COVER (C15 075.4) AS02. THIS COVER FITS OVER THE CUTTING MODULE AY COVER MOUNT IN THE UPPER REAR AND THE RIGHT AND LEFT STATIONARY HINGES. START (6) 10-32 X 3/8 PH TORX AND TIGHTEN WITH T25 TORX WRENCH.
- 90) PREPARE TO SECURE THE SAFETY SHIELD ASSEMBLY. INSERT THE 3/16 X ½ DOWELL PIN THAT IS PRESSED IN A ROTATING HINGE BLOCK INTO THE RIGHT AND LEFT NYLINER BUSHING LOCATED IN THE RIGHT AND LEFT STATIONARY HINGE BLOCK. ALIGN THE ROTATING HINGE BLOCK THREADS UPWARD, WITH THE DOWEL CLOSER TO THE TOP.
- 91) WITH THE SAFETY SHIELD WINDOW UPWARD, SET THE SAFETY SHIELD OVER THE ROTATING HINGE BLOCKS. START THE (4) 8-32 X 3/8 PH TORX AND TIGHTEN THE SAFETY SHIELD TO THE ROTATING HINGE BLOCKS WITH A T15 TORX WRENCH.



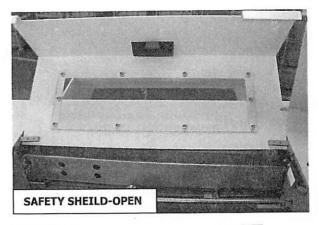


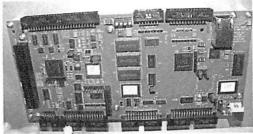




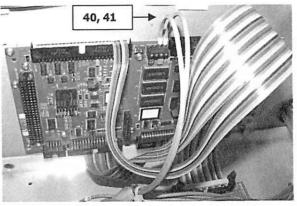


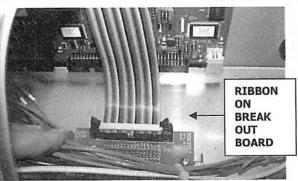
- 92) LIFT THE SAFETY SHIELD UP AND DOWN SEVERAL TIMES TO BE CERTAIN IT DOES NOT CATCH ON THE FRONT OF THE CUTTING MODULE COVER. ALSO BE CERTAIN IT DOES NOT SCRATCH EITHER OF THE SIDE PANELS WHEN IT IS CLOSED.
- 93) SECURE THE DELTA TAU CLIPPER
 CONTROLLER (PRC3871) OFFICE TO
 THE NYLON STANDOFFS ON THE RIGHT
 SIDE PANEL. ORIENT THE CLIPPER
 CONTROLLER WITH THE FOUR POST
 TERMINAL BLOCK UPWARD. USE (11)
 4-40 X 3/8 PHMS TO SECURE.
- 94) FROM BOTTOM HOUSING TERMINALS, INSERT THE TRIMMED FERRULE ON #40 BROWN WIRE INTO THE 3RD POST FROM THE LEFT/FRONT. INSERT THE TRIMMED FERRULE ON #41 BROWN WIRE INTO THE END POST ON THE RIGHT/REAR. TIGHTEN TERMINALS WITH SMALL SCREWDRIVER.
- 95) FROM THE HARNESS BAG TAKE THE RIBBON CABLE THAT HAS ONE END SPLIT. ALIGN KEYWAY AND PRESS THE COMPLETE UNSLPIT END ONTO THE INNER TERMINALS OF THE BREAK OUT BOARD ON BOTTOM HOUSING. THE SMALLER SPLIT END PRESSES ONTO THE UPPER LEFT/FRONT DELTA TAU TERMINALS. THE LARGER SPLIT RIBBON PRESSES ONTO THE LOWER LEFT/FRONT OF THE DELTA TAU TERMINALS. THE COMMUNICATION **CABLE FROM TOUCHSCREEN PRESSES** ONTO SMALLER LOWER LEFT/FRONT TERMINAL POSTS.

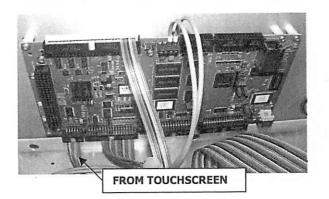




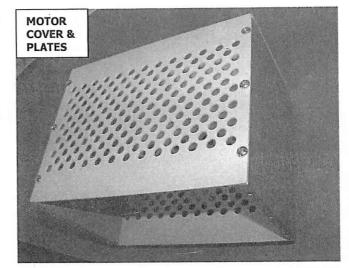
SECURE DELTA TAU CLIPPER



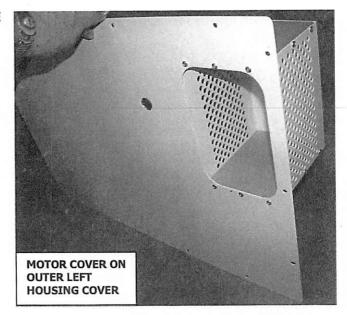




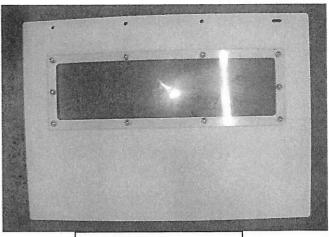
96) SECURE (2) MOTOR COVER MOUNTING PLATES (C15 272.4) RACK 24 TO THE ENDS OF A PAINTED PERFORATED MOTOR COVER (C15 273.4) ASO2. FIT THE MOUNTING PLATES INTO THE MOTOR COVER ENDS. USE (16) 6-32 X 1/4 PHMS. SET ASIDE UNTIL AFTER C15 HAS BEEN TESTED.



97) SECURE THE MOTOR COVER ASSEMBLY TO THE OUTSIDE OF THE LEFT OUTSIDE HOUSING COVER (C15 171.4) AS02. START (6) 6-32 X ¼ PHMS THROUGH THE INNER HOUSING COVER INTO THE MOTOR COVER MOUNTING PLATE THREADS. THEN TIGHTEN ALL SCREWS. SET ASIDE UNTIL AFTER THE C15 HAS BEEN TESTED.



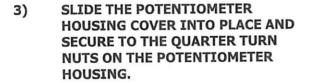
PEEL OFF AND DISCARD THE 98) PROTECTIVE COVERING ON A WINDOW SAFETY SHIELD (C15 077.4) ASO2. CLEAN BOTH SIDES OF THE WINDOW. SECURE THE WINDOW SAFETY SHIELD TO A PAINTED UNIVERSAL EXIT CHUTE SAFETY DOOR (C15 368.4) AS02. INSERT (10) 10-32 X 3/8 PH TORX THROUGH THE SAFETY DOOR INTO THE WINDOW SAFETY SHIELD. THREAD ON (10) NYLON INSERT NUTS. TIGHTEN THE NYLON INSERT NUTS WITH A T25 TORX ALLEN WRENCH. BECAREFUL YOU DO NOT OVER TIGHTEN AND CRACK THE WINDOW.

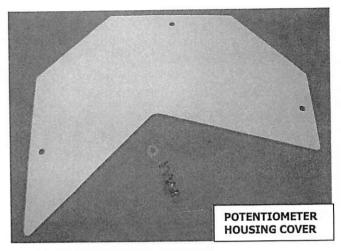


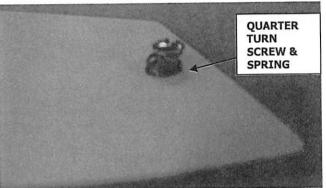
EXIT CHUTE SAFETY DOOR

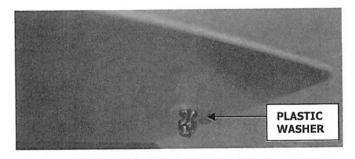
C15 POTENTIOMETER HOUSING COVER ASSEMBLY

- 1) ALIGN A POTENTIOMETER HOUSING COVER (C15 286.4) AS02 WITH THE POTENTIOMETER HOUSING TO CHECK POSITIONING AND OPENINGS WITH THE FASTENER NUTS.
- FROM THE QUARTER TURN DOOR 2) LATCH KIT (PML002) AS07 PLACE THE SMALLER END OF THE LATCH KIT **SPRING ON A QUARTER TURN** FASTENER SCREW. INSERT THE QUARTER TURN FASTENER SCREW WITH SPRING INTO THE POTENIOMETER HOUSING COVER FROM THE OUTER COVER THROUGH THE OPENING. DEPRESS THE SPRING **FULLY AND FROM THE INNER** HOUSING COVER SLIDE THE PLASTIC WASHER OVER THE THREADS OF THE **OUARTER TURN FASTENER SCREW,** UNTIL THE WASHER RESTS ON SHAFT PAST THREADS.





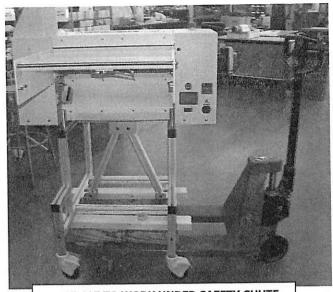




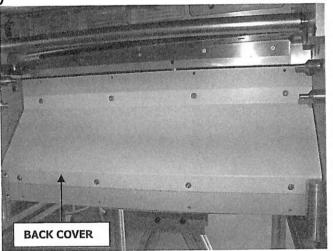


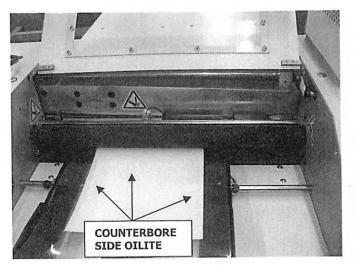
C15 HOUSING & LABEL COMPLETION

- 1) AFTER PROGRAMMING AND TESTING THE MOTOR AND SAFETY CIRCUIT FUNCTIONS, FINAL HOUSINGS AND LABELS CAN BE ADDED.
- 2) TO FACILITATE WORKING UNDER THE EXIT CHUTE, A LIFT WITH WOODEN BLOCKS CAN BE USED TO RAISE THE C15.
- REMOVE THE (2) 1/4-20 FHSH 3) HOLDING THE BRACKET FOR THE CHERRY MINI ROLLER SAFETY SWITCH LOCATED ON THE INNER RIGHT SIDE PANEL. GENTLY MOVE THE SAFETY SWITCH ASIDE WHILE **ALIGNING THE BACK COVER (C15 076.4)** AS02. THE LOWER BACK COVER FITS BETWEEN THE INNER MOUNTING FEET SHAFT AND THE OUTER SPACER BAR. SECURE THE BACK COVER TO THE OUTER SPACER BARS THROUGH CLEARANCE HOLES. USE (8) 10-32 X 3/8 BH TORX. REPLACE THE CHERRY MINI ROLLER SAFETY SWITCH BRACKET TO THE SIDE PANEL.
- 4) LIFT THE SAFETY SHIELD AND ADHERE (3) YELLOW CUTTING OF FINGERS OR HAND/STRAIGHT BLADE (LAB53) ASO8. LOCATE ONE LABEL ON THE INNER RIGHT SIDE PANEL IN FRONT OF THE SENSOR GROMMET, DOWN ABOUT 1 ½" FROM THE SIDE PANEL LIP. ON THE INNER LEFT SIDE PANEL ADHERE A SECOND LABEL ABOVE THE RUBBER ROLLS, DOWN 1 ½" FROM SIDE PANEL LIP. A THIRD LABEL IS ADHERED ON THE TOP BLADE HOLDER, LEFT OF THE SENSOR HOLDER.







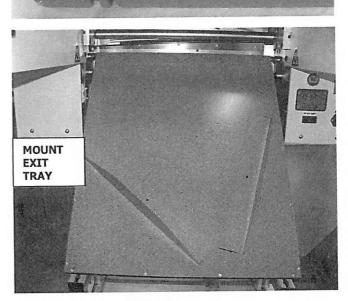


5) TWO MORE YELLOW CUTTING OF FINGERS OR HAND/STRAIGHT BLADE (LAB53) ASO8 LABELS ARE ADHERED TO THE INNER, LOWER SAFETY DOOR MOUNTING PLATES ON THE EXIT CHUTE ASSEMBLY. THERE IS ONE LABEL ON EACH MOUNTING PLATE.

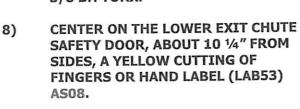


CATCH ON MOUNTING PINS

FROM THE REAR, FITTING OVER THE EXIT CHUTE MOUNTING PINS. THE LIP OF THE EXIT TRAY FITS ON THE UPPER EXIT CHUTE MOUNTING PIN. LOWER THE EXIT TRAY UNTIL IT CATCHES ON THE ADJUSTMENT BAR NOTCH. YOU MUST HEAR THE CHERRY MINI ROLLER SAFETY SWITCH 'CLICK' INTO ACTIVATION WHEN THE EXIT TRAY CATCHES, OR THE SAFETY SWITCH MUST BE ADJUSTED UNTIL IT DOES 'CLICK.'



7) SECURE EXIT CHUTE SAFETY DOOR
ASSEMBLY TO THE MOUNT FOR EXIT
CHUTE SAFETY DOOR, LOCATED
BETWEEN THE OILITE BEARINGS ON
THE UPPER SAFETY DOOR MOUNTING
PLATES. FIT UPPER SAFETY DOOR
BETWEEN INNER, LOWER SPACERS
TO ALLOW SWING. USE (4) 10-32 X
3/8 BH TORX.

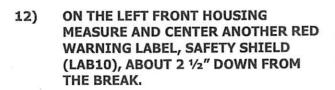




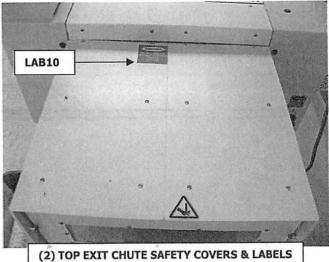
9) ON THE LOWER, OUTER SAFETY DOOR MOUNTING PLATES, SECURE A RIGHT AND LEFT SIDE EXIT CHUTE SAFETY COVER (C15 363.4) ASO2. USE (3) 10-32 X 3/8 BH TORX THROUGH THE CLEARANCE HOLES INTO THE MOUNTING PLATE THREADS.

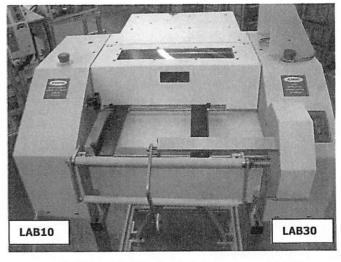


- 10) OVER THE TOP OF THE EXIT CHUTE ASSEMBLY ARE (2) MORE EXIT CHUTE SAFETY COVERS. ALIGN THE COVERS ON THE UPPER MOUNTING PLATE LIPS AND START ALL SCREWS BEFORE TIGHTENING. USE (6) 10-32 X 3/8 BH TORX ON EACH TOP EXIT CHUTE SAFETY COVER.
- 11) ADHERE A RED 3"X3" WARNING LABEL, SAFETY SHIELD (LAB10) AS08 ON THE INNER, LEFT TOP EXIT CHUTE SAFETY COVER. ADHERE A YELLOW CUTTING OF FINGERS OR HAND/STRAIGHT BLADE (LAB53) AS08 TO THE OUTER, RIGHT TOP EXIT CHUTE SAFETY COVER.



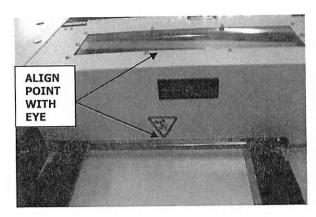
13) ON THE RIGHT FRONT HOUSING MEASURE AND CENTER AN ALWAYS READ INSTRUCTION MANUAL LABEL (LAB30) AS08. THIS LABEL IS DIRECTLY ACROSS FROM THE LABEL ON THE LEFT HOUSING.

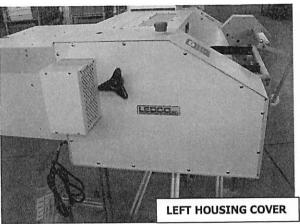


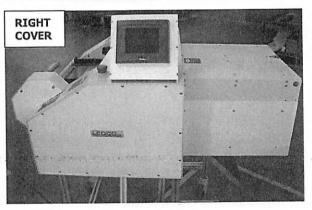


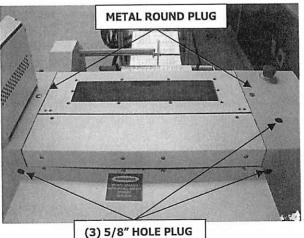
- 14) A YELLOW ARM ENTANGLEMENT LABLE (LAB51) AS08 IS ADHERED WITH THE POINT BY 'HAND THROUGH ROLLERS'

 FACING DOWNWARD, TO THE FRONT OF THE SAFETY SHIELD, BELOW THE POCKET HANDLE. **ALIGN THE LABEL WITH THE SENSOR EYE TO INDICATE CENTER OF FILM AND PAPER.
- 15) SECURE THE LEFT OUTSIDE HOUSING COVER (C15 171.4) ASO2 TO LEFT SIDE PANEL. ADJUSTMENTS TO LINE UP SCREW THREADS ARE MADE BY LOOSENING BACK OR FRONT UPPER HOUSING BRACKETS. USE (13) 8-32 X 1/4 THMS TO SECURE HOUSING COVER.
- 16) SECURE A BLACK CAM SHAFT HANDLE (PRH140) AS02 WITH A 1/4-20 X 3/8 SET SCREW TO THE CAM SHAFT RETAINING LOCATION.
- 17) CENTER AND ADHERE A DOMED LEDCO EMBLEM (LAB05A) AS08 TO THE OUTER OUTSIDE HOUSING COVER.
- 18) SECURE THE RIGHT OUTSIDE HOUSING COVER (C15 169.4) ASO2 TO RIGHT HOUSING. ADJUSTMENTS ARE MADE THE SAME WAY AS LEFT SIDE. USE (13) 8-32 X 1/4 THMS TO SECURE.
- 19) CENTER AND ADHERE A DOMED LEDCO EMBLEM (LAB05A) AS08 TO THE RIGHT OUTSIDE HOUSING COVER.
- 20) AFTER TESTING AND CUTTING
 PRESSURES ARE SET, FILL THE TOP
 HOUSING OPENINGS USED FOR
 PRESSURE SETTING AND PLUGS.
- 21) ON THE TOP OF THE RIGHT AND LEFT HOUSING, INSERT A METAL ROUND PLUG (PRH213) RACK 24 TO COVER THE OPENING FOR THE PRESSURE BLOCK SET SCREW.
- 22) ON THE TOP OF THE LEFT HOUSING AND ON THE UPPER REAR OF THE RIGHT AND LEFT HOUSING, INSERT A 5/8" HOLE PLUG-BLACK PASTIC (PRH168) ASO9.

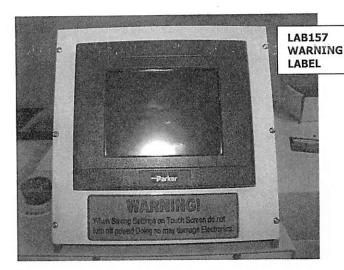


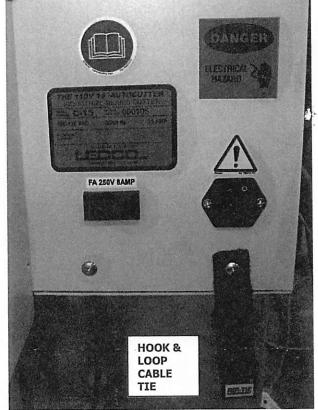


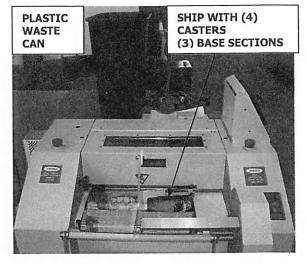


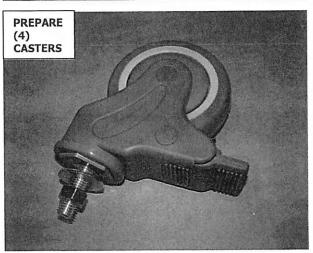


- 23) UNDER THE TOUCHSCREEN CENTER
 THE GRAY/RED C15 & C30 WARNING
 LABLE (LAB157) ASOS.
- 24) ON THE REAR OF THE LEFT HOUSING, UNDER THE POWER CORD RECEPTACLE, REMOVE THE LOWER, OUTER 10-32 X 3/8 TRUSSHEAD, WHICH HAS A #10 KEPS NUT ON THE INSIDE HOLDING A TOP AND BOTTOM HOUSING BRACE BRACKET. ADD A HOOK AND LOOP CABLE TIE (PRC309) LOFT 6 TO THIS LOCATION. USE A 10-32 X ½ THMS AND DISCARD THE SCREW YOU REMOVED. USE THE #10 KEPS NUT ON THE INSIDE. HOLD HOOK AND LOOP CABLE TIE WHEN TIGHTENING, SO IT HANGS STRAIGHT.
- 25) THE 9' 10" LONG POWER CORD (PRC308) LOFT 6 IS SECURED USING THE HOOK AND LOOP CABLE TIE.
- 26) PREPARE (4) ½-13 X 1 ½ STEM
 CASTERS (PRC210) AS14 EACH WITH A
 ½ USS FLAT WASHER AND A ½-13 HEX
 NUT THREADED ON CASTER STEM. THE
 CASTERS SHIP WITH C-15.
- 27) ADD (3) BASE SECTIONS (H385 099.4) AS06 TO THE FEED TABLE SECTION.
- 28) TEST AND SHIP WITH A PLASTIC WASTE CAN (C15 159.4) ASO2.



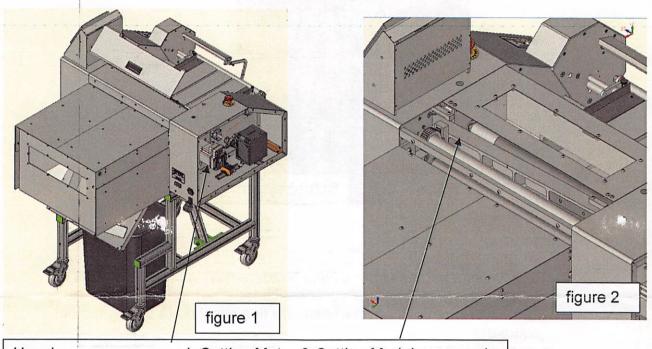




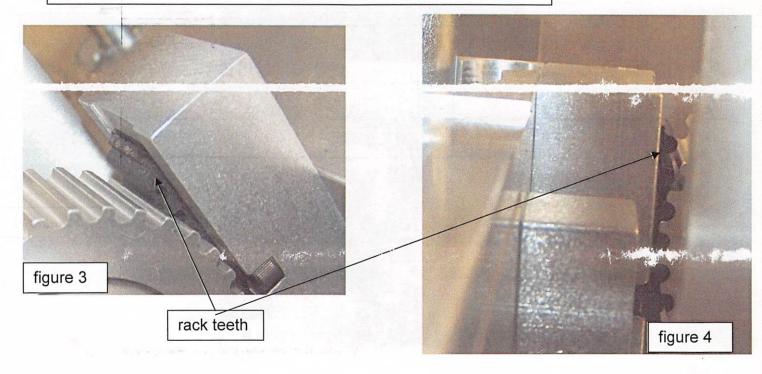


Retightening of set screws in cutting motor drive system & repositioning of Rack & Pinion cutting Mechanism

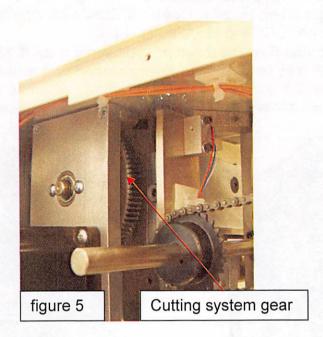
- 1) Unplug system from power cause.
- 2) Remove Right & Left Housing Covers & Cutting Module cover exposing Cutting Motor and Cutting Module (fig. 1 & 2).
- With Cutting Module in the down position verify Rack & Pinions are in the correct position by verifying the controls side and motor side Rack & Pinions have the same tooth count from top of racks (use camera on phone or small mirror for verification) (fig. 3 & 4)



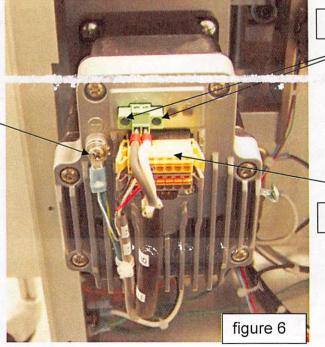
Housing covers removed, Cutting Motor & Cutting Module exposed



Test for play in cutting system gear by moving gear up and down, if no play in gear and Rack & Pinions are OK do not proceed, cutting system is correct. If play in gear, proceed to step 5 -7 if no play in gear but reacks positioned incorrectly proceed to step 5 & 8-13 (fig. 5).



5) Remove wire harness from cutting motor removing only the screws indicated in figure 6 and yellow connector, do not remove wires from connectors, remove any harness wire ties attached to cutting motor (figure 6)

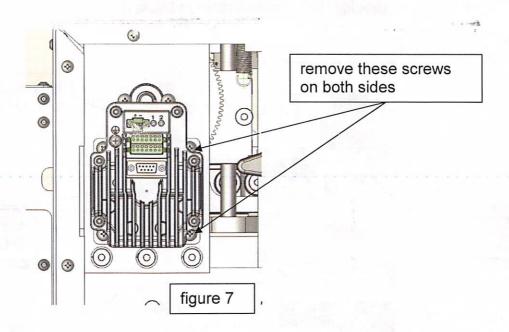


remove these screws

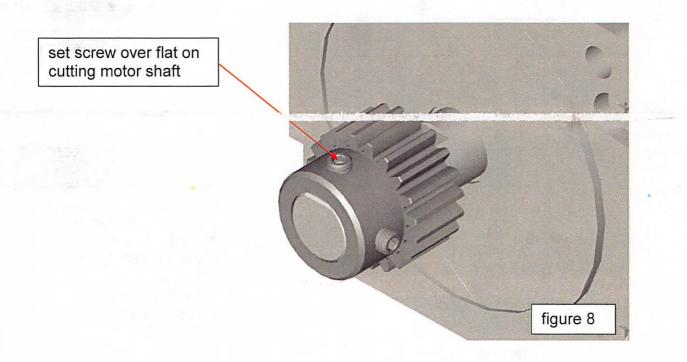
remove yellow connector

remove ground screw

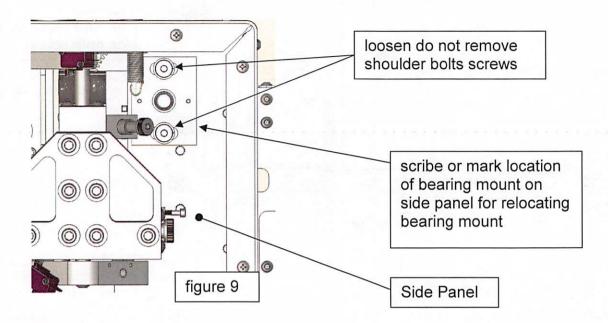
6) Remove cutting motor by removing 4 screws as indicated (figure 7).



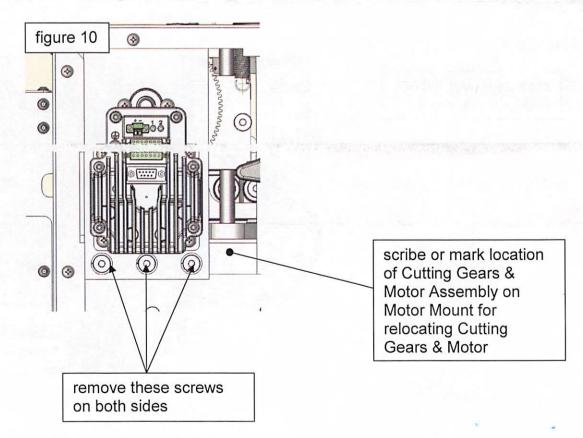
7) Inspect and tighten set screws, Note: one set screw must be located over flat on motor shaft to operate correctly (figure 8). Replace cutting motor and test system, if system still not operating correctly proceed to step 5, 8-13.



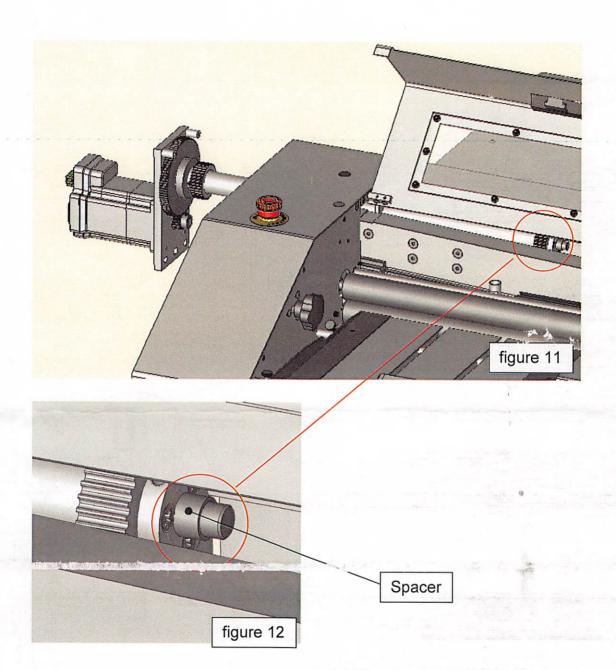
8) On touch screen side of cutter scribe or mark location of bearing mount on side panel for relocation of bearing mount then loosen 2 shoulder bolts as illustrated in figure 9.



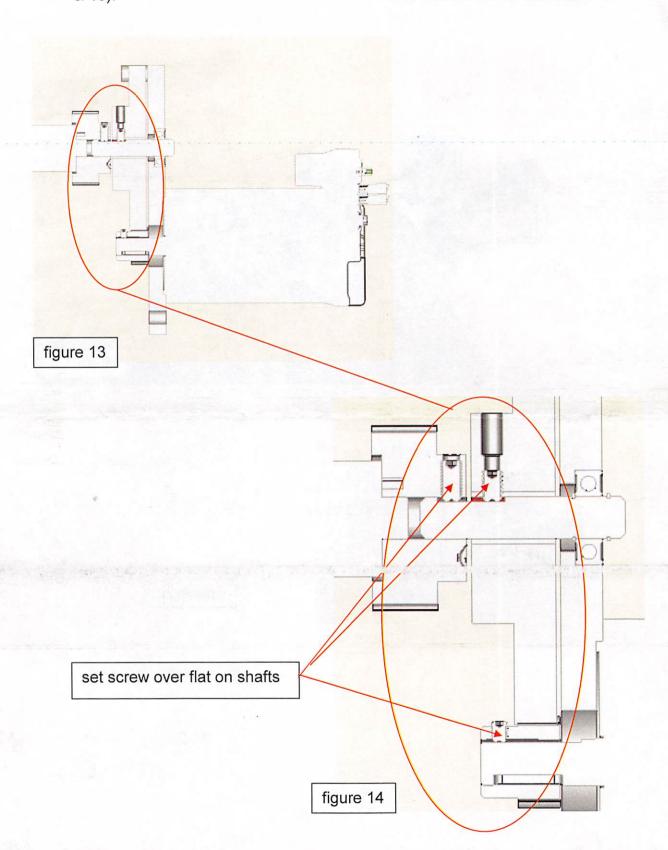
On cutting motor side scribe or mark location of Cutting Gears & Motor Assembly on Motor Mount for relocation of Cutting Gears & Motor Assembly then remove 3 shoulder bolts & lock washers as illustrated in figure 10.



 Partially pull assembly out as shown in figure 11, place support under motor to keep assembly horizontal. Note: Do not lose spacer, see figure 12.



Inspect and tighten set screws if necessary, Note: one set of set screws must be located over flat on shaft to operate correctly (figure 13, 14 & 15).



set screw over flat on shafts figure 15 Before replacing Cutting Gears & Motor Assembly inspect Racks for any missing or damaged teeth, replace rack if necessary (Note: when replacing Nack to the Cutting Modele the slot feature on the Rack must be in a down position). Also inspect springs to make sure they are attached and functioning correctly (fig. 16 & 17).

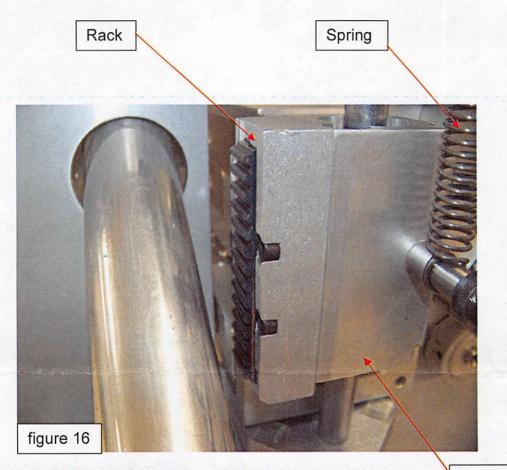


figure 17

Cutting Module

When replacing a Rack to the Cutting Module the slot feature on Rack must be in the down position Replace Cutting Gears & Motor Assembly, blade should be in lowest as possible squeeze the pinion shaft against the Cutting Module as shown in figure 18 and while maintaining that force secure the Cutting Motor side (fig. 20). Repeat the process for the controls side of the Cutting Gears & Motor Assembly (fig. 19). After tightening all bolts, the Cutting Motor and Cutting gear mounts should be back to or past initial sort a marks. Verify the controls side and motor side Rack & Pinions have the same tooth count from top of racks (use camera on phone or small mirror for verification) (fig. 3 & 4). Replace wiring harness and ground to cutting motor and test C15 Cutter. Tie wrap wiring harness and replace covers.

