

OPERATING INSTRUCTIONS FOR 'ELLF' ELECTRONIC LABEL LEVEL FINDER WITH AIR CYLINDER TYPE RATCHET LABEL FEED DRIVE

1. TO SET THE HEIGHT OF THE LABEL STACK, ADJUST THE FIBER OPTIC SENSOR UP OR DOWN FOR DESIRED LABEL HEIGHT. 'ELLF' WILL NOW MAINTAIN THE PROPER HEIGHT OF THE LABEL STACK. THIS SETTING SHOULD NOT HAVE TO VARY, UNLESS WHEN CHANGING FROM SMALL TO LARGE OR LARGE TO SMALL DIAMETER CONTAINERS AND LABEL PICK-UP PROBLEMS OCCUR.

NOTE: SENSOR SHOULD BE SET IN AS CLOSE AS POSSIBLE TO THE LABEL STACK WITHOUT TOUCHING THE LABEL STACK. (APPROX. 1/16" TO 3/32")

2A. "MACHINES WITH CONTINUOUS LABEL FEED ASSEMBLY"

WHEN NOT USING THE CONTINUOUS LABEL FEED OPTION, TO LOWER THE LABEL BED WHEN REFILLING WITH LABELS, DISENGAGE THE LEFT HAND CLUTCH AND LOWER THE LABEL BED BY TURNING THE LEFT HAND HANDWHEEL. AFTER REFILLING WITH LABELS, RAISE THE LABEL BED TO THE APPROXIMATE HEIGHT, ENGAGE LEFT HAND CLUTCH, AND 'ELLF' WILL RAISE THE LABEL STACK TO THE PRESET HEIGHT.

NOTE: WHEN USING THE CONTINUOUS LABEL FEED OPTION, TO ADD LABELS TO THE LABEL BED SEE STANDARD INSTRUCTIONS FOR CONTINUOUS LABELING.

2B. "MACHINES WITHOUT CONTINUOUS LABEL FEED ASSEMBLY"

TO LOWER THE LABEL BED WHEN REFILLING WITH LABELS, DISENGAGE THE CLUTCH USING THE HAND LEVER AND LOWER THE LABEL BED BY TURNING THE HANDWHEEL. AFTER REFILLING WITH LABELS, RAISE THE LABEL BED TO THE APPROXIMATE HEIGHT, ENGAGE THE CLUTCH, AND 'ELLF' WILL RAISE THE LABEL STACK TO THE PRESET HEIGHT.

3. A SECOND FIBER OPTIC SENSOR, LOCATED JUST UNDER THE REAR SIDE LABEL GUIDE CASTING, IS FOR SENSING THE PRESENCE OF LABELS IN THE LABEL BED. THIS SENSOR ALLOWS THE 'ELLF' DRIVE TO OPERATE ONLY AFTER LABELS ARE PLACED INTO THE LABEL BED AND THE LABEL BED IS RAISED SO THAT THE LABELS TRIP THE SENSOR. AT THIS TIME 'ELLF' WILL OPERATE TO MAINTAIN THE PROPER LABEL STACK HEIGHT. ALSO THIS SENSOR WILL STOP THE 'ELLF' DRIVE PRIOR TO THE LABEL BED RUNNING OUT OF LABELS. THIS HAPPENS WHEN THE LABEL BED RAISES TO THE POINT WHERE THE SENSOR WILL SENSE THE HOLE LOCATED IN THE OUTSIDE LABEL SUPPORT PLATE.

NOTE: SENSOR SHOULD BE SET APPROXIMATELY 1/4" FROM THE LABEL STACK AND THE SENSITIVITY SHOULD BE ADJUSTED SO THAT WHEN THE HOLE IN THE OUTSIDE LABEL SUPPORT PLATE IS AT THE SENSOR HEIGHT THE SENSOR DOES NOT SENSE THROUGH THE HOLE TO THE CENTER LABEL PLATE SUPPORT.

NOTE: THE LABEL BED WILL REQUIRE TO HAVE AT LEAST AN APPROXIMATE MINIMUM OF 1-1/2" STACK OF LABELS IN THE BED FOR 'ELLF' TO OPERATE.

4. "MACHINES WITH CONTINUOUS LABEL FEED ASSEMBLY"

A THIRD FIBER OPTIC SENSOR, LOCATED JUST UNDER THE OPERATOR SIDE LABEL GUIDE CASTING, IS FOR SENSING THE HEIGHT OF THE CONTINUOUS LABEL FEED FINGER PLATE. THE SENSOR WILL STOP THE 'ELLF' DRIVE IN THE EVENT THAT THE FINGER PLATE IS NOT PULLED OUT OF THE LABEL BED PRIOR TO BEING JAMMED AGAINST THE BOTTOM SIDE OF THE LABEL GUIDE CASTINGS WHEN USING THE CONTINUOUS LABEL FEED OPTION.

5. IF FASTER SPEED SETTINGS ARE REQUIRED FOR THE RATCHET LABEL FEED TO MEET PRODUCTION, RE-ADJUST THE TIMER SETTINGS AS NEEDED. BOTH TIMERS HAVE ADJUSTING SCREWS FOR INCREASING OR DECREASING THEIR TIME DELAY. ADJUST THE PULSE TIMER #59120 FOR THE LENGTH OF TIME THE CYLINDER WILL BE EXTENDED AND ADJUST THE DELAY TIMER #59121 FOR THE LENGTH OF TIME THE CYLINDER WILL BE RETRACTED.

6. IF MAKING ADJUSTMENTS AT THE RATCHET WHEEL FEED, DUE TO WEAR OR REPLACING OF PARTS, ENSURE THAT THE CYLINDER STROKE IS SET PROPERLY SO AS TO MAKE ONLY ONE TOOTH MOVEMENT ON THE RATCHET WHEEL PER STROKE OF CYLINDER. PROCEED TO ADJUST THE DETENT PAWL WHICH IS MOUNTED ON AN ECCENTRIC STUD. LOOSEN THE SET SCREW THAT HOLDS THIS STUD AND TURN SO THAT THE PAWL ENTERS THE TOOTH OF THE RATCHET WHEEL ABOUT HALF WAY WHEN THE CYLINDER IS IN THE EXTENDED POSITION.

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