SECTION III

ADJUSTMENTS AND LUBRICATION

1. ADJUSTMENTS

1.1 Necessary Tools

1.1.1 General purpose oscilloscope

1.1.2 Potentiometer adjustment screw driver.

1.1.3 KS14510-L1 Bell System meter or equivalent.

1.2 Adjustment of ZB415, Recycle Timer, EC546.

1.2.1 Remove ZB510, EC457 card.

1.2.2 Strap pin H to pin P of ZB415.

1.2.3 Attach scope probe to pin A of ZB415.

1. Horizontal - 5 ms/div.
2. Vertical - 2 volts/div.
3. Trigger - positive slope.

1.2.4 Adjust potentiometer R1 until the length between pulses is 45-50 milliseconds. MAKE THEM AS LONG AS POSSIBLE FOR Sandia Corp.

1.2.5 Remove scope and strap and reinsert ZB510, EC457.

1.3 Adjustment of ZB416, Clock Generator EC546.

1.3.1 Remove ZB118, EC357 Card.

1.3.2 Strap pin H to pin P of ZB416.

1.3.3 Attach scope probe to pin A of ZB416.

1. Horizontal - 1 ms/div.
2. Vertical - 2 volts/div.
3. Trigger - positive slope

1.3.4 Adjust potentiometer R1 until the length between pulses is the following:

Operational Speed	Time
1050 WPM	9.52 ms
1200 WPM	8.34 ms
2000 WPM	5.00 ms
2400 WPM	4.17 ms

This adjustment must be made within ± 0.01 ms. When operating speed is changed, this adjustment must always be changed to the new speed.

1.3.5 Remove scope and strap and reinsert ZB118, EC357 card.

1.4 Adjustment of light source and Pad-Out card for photo reader. Refer to Spec 60,857 for detail instructions.

NOTE: Exercise caution when working in the area of the light source. The light source cover may be hot. Also there is AC power in the area.

1.4.1 A Before adjusting the light source, be sure the mirror in the mirror chute assembly is free of dirt or lint.

1.4.2 B Feed tape through the DRPE punch block by depressing "ALL FEED" button.

1.4.3 C Leave this letterstape in the punch block for the duration of this adjustment.

1.4.4 D Connect a Bell VOM Type KS14510-L1 in the following manner:

Positive Lead to JB128-B3 +6 Volts
Negative Lead to Connector Plate JB128

Feed Hole	-	C2 —	3.6 — 4.3
Level 1	-	F1 —	2.4 — 8
" 2	-	F2 —	2.4 — 8
" 3	-	F3 —	2.6 — 9
" 4	-	F4 —	2.6 — 9
" 5	-	F5 —	2.6 — 9
" 6	-	F6 —	2.4 — 8
" 7	-	F7 —	1.8 — 6
" 8	-	F8 —	2.1 — 7

Set the meter to 12 ma D.C.