BELL SYSTEM PRACTICES Plant Series

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SECTION 573-117-700 Issue 4, January, 1965 AT&TCo Standard

28 PERFORATOR-TRANSMITTER BASE

ADJUSTMENTS

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1. GENERAL

1.01 This section has been revised to include recent engineering changes and additions, and to rearrange the text, so as to bring the section generally up-to-date. Since this is an extensive revision, marginal arrows ordinarily used to indicate changes have been omitted.

1.02 This section contains the specific requirements and adjustments for the 28 perforator-transmitter base.

1.03 Maintenance procedures which apply only to mechanisms of a particular design, or

to certain models of 28 perforator-transmitter bases are so indicated in the titles of the paragraphs which contain these particular adjustment requirements.



Figure 1 - 28 Perforator-Transmitter Base

1.04 The adjustments of each unit are arranged in a sequence that should be followed if a complete readjustment of the unit were undertaken. The tools and spring scales required to perform these adjustments are listed in the applicable section. After an adjustment is completed, be sure to tighten any nuts or screws that are loosened. The adjusting illustrations indicate tolerances, positions of moving parts, spring tensions and the angles at which scales should be applied when measuring spring tensions. If a part mounted on shims is removed, the number of shims used at each of its mounting screws should be noted so that the same number is replaced when the part is remounted.

1.05 References made to left or right, up or down, front or rear, etc apply to the unit in its normal operating position as viewed from the front.

1.06 The letters K (Keyboard), K-T (Keyboard - Tape), and T (Tape) are used in this section to refer to corresponding positions of the keyboard-control knob. Unless otherwise specified adjustments should be made in the K-T position. 1.07 When a requirement calls for a clutch to be disengaged, the clutch shoe lever must be fully latched between its trip lever and latchlever so that the clutch shoes release their tension on the clutch drum. When engaged, the clutch shoe lever is unlatched and the clutch shoes are wedgedfirmly against the clutch drum.

Note: When the signal generator shaft is rotated by hand, the clutch does not fully disengage upon reaching its stop position. In order to relieve drag and permit the main shaft to rotate freely, apply pressure on the lug of the clutch disc with a screwdriver to cause it to engage its latchlever and fully disengage the clutch.

 All electrical contact points should meet squarely. Contacts with the same diameter should not be out of alignment more than 25 per cent of the contact diameter. Check contacts for pitting and corrosion and clean or burnish them before making specified adjustment or tolerance measurement. Avoid sharp kinks or bends in the contact springs.

CAUTION: KEEP ALL ELECTRICAL CON-TACTS FREE OF OIL AND GREASE.

2. BASIC UNIT

2.01 Code Bar Assembly



NOTE: THE BAIL SHOULD BE SO ADJUSTED THAT THE SPACE BAR CAN BE OPERATED WITHOUT BINDING IN THE HOLES IN THE GUIDE PLATE AND THE FRAME.



2.03 Signal Generator Mechanism continued





2.05 Codebar Assembly continued



Codebar Assembly continued

NOTE:	ADJUSTMENTS CONTINUED FROM
	PRECEDING PAGE.

(C) CLUTCH TRIP BAR (USED FOR SYNCHRONOUS PULSED TRANSMISSION) ~ REQUIREMENT WITH THE CLUTCH DISENGAGED AND LATCHED, POWER OFF AND ARMATURE OF THE MAGNET ASSEMBLY HELD AWAY FROM THE CLUTCH TRIP BAR. PUSH AT THE RIGHT HAND END OF CLUTCH TRIP BAR. MIN. 9 OZS. --- MAX. 12 OZS. TO START CLUTCH TRIP BAR MOVING. NOTE: HOLD THE SWINGER OF THE CONTACT ASSEMBLY AWAY FROM THE UNIVERSAL CODE BAR WHEN MEASURING THE CLUTCH TRIP SPRING TENSION. (D) UNIVERSAL CODE BAR (USED FOR SYNCHRONOUS PULSED TRANSMISSION) -REQUIREMENT WITH THE CLUTCH DISENGAGED AND LATCHED, DEPRESS THE BLANK KEY TO ALLOW THE UNIVERSAL CODE BAR TO FALL TO THE RIGHT. SPRING UNHOOKED FROM THE BRACKET. MIN. 8 OZS. --- MAX. 12 OZS. TO PULL SPRING TO INSTALLED LENGTH. (E) CODE BAR SPRING TENSION -REQUIREMENT KEYBOARD IN K POSITION, LETTERS KEYLEVER DEPRESSED (POWER OFF) HOLD TRANSFER LEVERS (REF. FIGURE 1-15) TO THE RIGHT SO THEY DO NOT AFFECT THE CODE BARS. MIN. 3 OZS. --- MAX. 5 OZS. TO START CODE BAR MOVING. (F) LOCK BAR SPRING TENSION -

REQUIREMENT CLUTCH DISENGAGED, KEYBOARD LOCK KEYLEVER DEPRESSED. APPLY PUSH END OF SCALE AGAINST R.H. END OF LOCK BAR. MIN. 2-1/2 OZS. --- MAX. 6 OZS. TO START LOCK BAR MOVING.

2.06 Codebar Assembly continued



TO ADJUST

LOOSEN THE LOCK BALL CHANNEL MOUNTING SCREWS. BACK OFF LATERAL ADJUSTING SCREWS AND POSITION CHANNEL. TURN ONE ADJUSTING SCREW IN AGAINST THE END OF THE CHANNEL AND LOCK IT. TURN THE OTHER ADJUSTING SCREW IN TO THE END OF THE CHANNEL AND BACK IT OFF 1/4 TURN. LOCK THE SCREW. REPLACE THE WEDGES AND CHECK THEIR POSITION WITH RESPECT TO THE BALLS. PULL CHANNEL ASSEMBLY DOWNWARD UNTIL ALL CODE LEVERS STRIKE THEIR UPSTOP WITHOUT WEDGES JUMPING OUT OF POSITION. REPLACE LOCK BALL RETAINER. BACK OFF BALL ENDPLAY ADJUSTING SCREW.





2.10 Codebar Assembly continued



2.11 Keyboard Mechanism continued



2.12 Signal Generator Mechanism continued

TEST SET

SCALE

SIGNAL CONTACT CLEARANCE (USING SIGNAL TEST SET --- SUCH AS DXD/LSS) PRELIMINARY --- WITH ELECTRICAL NOISE SUPPRESSOR DISCONNECTED FROM CIRCUIT, CONNECT SIGNAL CONTACTS SO AS TO INTERRUPT (KEY) CURRENT TO "STROBE" LAMP OF DXD OR LSS. TEST SET AND KEY-BOARD MUST OPERATE AT SAME SPEED. (SEE TABLE 1-1).

REQUIREMENTS

- (1) WITH BLANKS COMBINATION SELECTED, ORIENT SCALE OF TEST SET TO ALIGN ZERO MARK OF STOP SEGMENT WITH BEGINNING OF STOP PULSE IMAGE. — LENGTH OF TRACE SHALL BE FROM THE ZERO MARK (NOTE 1.) TO
 - (MIN. 141-1/2 DIVISIONS ------ MAX. 142-1/2 DIVISIONS) TO ADJUST - IF VARIATIONS OCCUR, POSITION SCALE SO THAT VARIATIONS EXTEND EQUALLY ON RIGHT & LEFT OF 142 MARK.
- (2) NOMINAL LENGTH OF PULSES NO. 1, 2, 3, 4, & 5 IS 100 DIVISIONS. TO ADJUST- RECHECK CONTACT CLEARANCE REQUIREMENT FIG. 1-4. REFINE CLEARANCE, WHERE NECESSARY, TO FAVOR PULSES 1 THRU.5 BY ORIENTING BE-GINNING OF STOP PULSE TRACE UP TO ± 5 DIVS. FROM ZERO MARK OF SEGMENT (REFER TO REQUIREMENTS "A" AND "B" BELOW)
- (3) EACH PULSE TRACE (SEE "C" BELOW) TO BE FREE OF UNDERSIRABLE BREAKS. TO ADJUST-RECHECK TRANSFER BAIL DETENT PLATE REQUIREMENT. (FIG. 1-4) AND WHERE NECESSARY, REFINE ADJUSTMENT. NOTE --- DETENT PLATE MAY BE ROTATED EITHER LEFT OR RIGHT AS LONG AS DETENT TOGGLE LATCH CONTINUES TO CAM OFF PROJECTION OF TRANSFER BAIL.
 - A. BEGINNING OF EACH TRACE SHOULD FALL BETWEEN 1. ZERO MARK AND 5TH DIV. OF SCALE SEGMENT
 - 95TH DIV. (PREVIOUS SEGMENT) AND ZERO MARK.
 B. END OF EACH TRACE (EXCEPT STOP PULSE)
 - 1. 95TH DIV. (PREVIOUS SEGMENT) & ZERO MARK

- SEE "R" & "Y" COMBINATION FIGURE 1-16D

 ZERO MARK AND 5TH DIV. OF SCALE SEGMENT.
 C. EACH TRACE OF THE MARKING CODE PULSES MAY HAVE A BREAK WITHIN TOLERANCE LIMITS --- THE BREAK SHOULD NOT OCCUR PRIOR TO 95TH DIVISION OF OBSERVED PULSE (1 THROUGH 5) OR 137TH DIVISION OF STOP PULSE. SEE TABLE 1-1 FOR PERMISSIBLE WIDTH OF BREAK AT SPEED OF OPERATION.

TABLE 1-1 SIGNALING PULSE SPEED AND PERMISSIBLE WIDTH OF BREAK

80 70 STOP

SPEED	OPERATIONS PER MINUTE	WIDTH OF BREAK NOT TO EXCEED	REMARKS
60 W.P.M.	368.182	1 DIVISION	MARKING PULSES (1 THROUGH 5 & STOP)
75 W.P.M.	460.00	1-1/2 division	MARKING PULSES (1 THROUGH 5 & STOP)
100 W.P.M.	00 W.P.M. 600.00 2 DIVISION		MARKING PULSES (1 THROUGH 5 & STOP)

2.13 Signal Generator Mechanism continued



REQUIREMENTS ----

- (1) SPACING PULSES SHALL START NO EARLIER THAN 94TH DIV. OF PREVIOUS SEGMENT AND NO LATER THAN 6TH DIV. OF PULSE UNDER OBSERVATION.
- (2) TRACE OF SPACING PULSE SHALL END NO EARLIER THAN 94TH DIV. OF PULSE UNDER OBSERVATION AND END NO LATER THAN 6TH DIV. OF FOLLOWING PULSE.
- (3) TRACE OF START PULSE SHALL BEGIN NO EARLIER THAN 136TH DIV. OF STOP SEGMENT AND NO LATER THAN 6TH DIV. OF START SEGMENT. START PULSE SHALL END NO EARLIER THAN 94TH DIV. OF START SEGMENT AND END NO LATER THAN 6TH DIV. OF NO. 1. SEGMENT.
- (4) SPACING PULSE MAY HAVE A BREAK PROVIDED THE BREAK IS NOT OVER ONE DIVISION WIDE AND IT DOES NOT OCCUR PRIOR TO 95TH DIV. OF PULSE UNDER OBSERVATION.

SEE TABLE 1-1 FOR PERMISSIBLE WIDTH OF BREAK AT SPEED OF OPERATION.

2.14 Keyboard Mechanism continued



TO START LINK MOVING

2.15 Keyboard Mechanism continued





2.16 Codebar Assembly and Signal Generator Mechanism continued

Note: Paragraph 2.18 through 2.23 apply to both typing and non-typing perforators.

2.18 Interrelated Features continued



CONTINUED ON FOLLOWING PAGE.

CONTINUED FROM PRECEDING PAGE.

TO ADJUST

LOOSEN SET SCREWS AND DISENGAGE FLEXIBLE COUPLINGS. LOOSEN TWO ALIGNMENT BRACKET SCREWS AND THREE PERFORATOR MOUNT-ING SCREWS. SET EXTENSION GUIDE PIN IN MIDDLE OF GUIDE BRA-CKET SLOT AND ALIGN PERFORATOR AND RESET CAM. TIGHTEN PER-FORATOR MOUNTING SCREWS. POSITION ALIGNMENT BRACKET SO THAT IT CONTACTS PERFORATOR CASTING FOR ITS FULL LENGTH, AND TIGHTEN SCREWS. POSITION REAR BEARING BRACKET UNTIL PERFORATOR DRIVE SHAFT LINES UP WITH BEARING BRACKET SHAFT. A STRAIGHT-EDGE RULE APPLIED TO THE CENTER OF THE BEARING BRACKET SHAFT SHOULD ALSO EXTEND THROUGH THE CENTER OF THE PERFORATOR DRIVE SHAFT. TIGHTEN SCREWS, AND ENGAGE THE COUPLING, IF NECESSARY, REFINE LINE UP OF PUNCH SLIDE LATCHES AND CODE BAR EXTENSIONS BY ADJUSTING THE CODE BAR EXTENSION GUIDE BRACKET IN ITS MOUNTING HOLES.

2.19 Interrelated Features continued



REQUIREMENT

CONTROL KNOB IN T POSITION. CODE BAR BAIL AT EXTREME LEFT. CLEARANCE BETWEEN CODE BAR BAIL LATCH LEVER AND ROLLER.

MIN. SOME --- MAX. 0.006 INCH

TO ADJUST

POSITION ECCENTRIC STUD WITH LOCK SCREW LOOSENED TO MEET REQUIREMENT. RECHECK AFTER TIGHTENING LOCK SCREW.

TO CHECK

WITH ALL CLUTCHES LATCHED, DEPRESS LTRS KEY. AFTER CODE BARS HAVE MOVED TO RIGHT, THERE MUST BE SOME CLEARANCE BETWEEN FOLLOWER RESET LEVER AND CLUTCH TRIP BAR PIN.

2.20 Interrelated Features continued



2.21 Interrelated Features continued

PERFORATOR CLUTCH RELEASE TRIP

REQUIREMENT

PERFORATOR CLUTCH SHOULD TRIP CONSISTENTLY IN K-T POSITIONS WHEN BLANK AND REPEAT KEYLEVERS ARE DEPRESSED SIMULTANEOUSLY. WHEN THE CONTROL KNOB IS TURNED FROM K POSITION TO K-T POSITION, THE PERFORATOR CLUTCH SHOULD TRIP WHEN THE FIRST KEYLEVER IS DEPRESSED. CLEARANCE BETWEEN MAIN TRIP LEVER AND CLUTCH RELEASE

MIN. 0.015 INCH

MAX. 0.025 INCH

TO ADJUST

PLACE CONTROL KNOB IN T POSITION. LOOSEN MAIN TRIP LEVER LATCH CLAMP SCREWS AND MOVE LATCH TO EXTREME LEFT. STRIKE BLANK KEYLEVER. MOVE THE STOP BRACKET TO THE RIGHT UNTIL IT IS OUT OF ENGAGEMENT WITH THE LATCH. MOVE THE CLUTCH TRIP BAR EXTENSION TO THE RIGHT UNTIL IT LATCHES. POSITION MAIN TRIP LEVER LATCH TO RIGHT TO OBTAIN REQUIRED CLEARANCE. TIGHTEN SCREWS.

NOTE: CHECK FOR CLEARANCE BETWEEN RESET BAIL AND SLIDES WHEN THE RESET LEVER IS TRIPPED. REFINE ADJUSTMENT IF NECESSARY TO OBTAIN OPERATIONAL CLEARANCE.

TO CHECK

WITH THE STOP BRACKET SCREWS FRICTION TIGHT, MOVE THE STOP BRACKET SLOWLY TO THE LEFT UNTIL THE LATCH JUST TRIPS. TIGHTEN CLAMP SCREWS. TURN ON MOTOR. DEPRESS BLANK AND REPEAT KEYLEVERS SIMULTANEOUSLY. IF OPERATION IS SATISFACTORY, TURN TO K-T POSITION AND REPEAT. TURN TO K POSITION AND BACK TO K-T POSITION. DEPRESS A KEYLEVER. PERFORATOR CLUTCH SHOULD TRIP. IF IT DOES NOT, MOVE STOP BRACKET SLIGHTLY TO THE RIGHT AND REPEAT THE ABOVE ADJUSTMENT.

NOTE: IF KEYBOARD DOES NOT HAVE BLANK KEYLEVER USE "T" KEYLEVER INSTEAD OF BLANK.



2.22 Interrelated Features continued







2.24 Interrelated Features continued

CAUTION

IF THE MOTOR SHOULD BECOME BLOCKED FOR SEVERAL SECONDS, THE THERMAL CUT-OUT SWITCH WILL BREAK THE CIRCUIT. SHOULD THIS HAPPEN, ALLOW THE MOTOR TO COOL AT LEAST 5 MINUTES BEFORE MANUALLY DEPRESSING THE RED BUTTON. AVOID REPEATED DEPRESSION.

SYNCHRONOUS MOTOR POSITIONING

REQUIREMENT

TWO OILERS SHOULD BE UPWARD AND APPROXIMATELY EQUIDISTANT FROM A VERTICAL LINE THROUGH THE MOTOR SHAFT.

TO ADJUST

POSITION THE MOTOR WITH BOTH CLAMP SCREWS LOOSENED.



2.25 Interrelated Features continued



2.26 Interrelated Features continued



3. VARIABLE FEATURES

3.01 Electrical Line Break Mechanism



3.03 Tape Out Switch Mechanism



3.05 Character Counter Mechanism



3.06 Character Counter Mechanism continued



3.07 Character Counter Mechanism continued



3.08 Character Counter Mechanism continued

CHARACTER COUNTER STROKE -REQUIREMENT WHEN CHARACTER AND REPEAT KEYS ARE DEPRESSED, THE COUNTER SHOULD OPERATE CONSISTENTLY IN T OR K-T POSITION. WHEN CARRIAGE RETURN KEY IS DEPRESSED, THE COUNTER SHOULD RESET WITHOUT BINDING. THE MECHANISM SHOULD COUNT THE FIRST CHARACTER ON A RESTART AFTER RESET CONDITION. MIN. 0.006---MAX. 0.015 INCH BETWEEN DRIVE LEVER AND RATCHET TOOTH, WHEN COUNTER IS SET NEAR MID-POINT OF ITS RANGE. TO ADJUST LOOSEN MOUNTING SCREWS. WITH KEYBOARD IN T POSTION, START MOTOR AND STRIKE CARRIAGE RETURN KEY, AND THEN E KEY. TURN OFF MOTOR. DEPRESS E KEY. POSITION CHARACTER COUNTER FRAME FOR CLEARANCE. TURN CONTROL KNOB TO K-T POSITION AND RECHECK. REFINE IF NECESSARY. RESET LATCH LEVER AND DRIVE LEVER SPRING REQUIREMENT MIN. 1/2 OZ. MAX. 1 OZ. TO MOVE EITHER LEVER. DRIVE LEVER RATCHET TEETH LATCH LEVER RESET LEVER EXTENSION SPRING REQUIREMENT WITH THE CODE BARS LATCHED MIN. 1/2 OZ. MAX. 1-1/4 OZ. TO START LEVER MOVING. Ο RATCHET DRUM



3.09 Repeat On Space Mechanism



3.10 Time Delay Mechanism



3.11 Time Delay Mechanism continued



LATCH PAWL SPRING UNHOOKED AT ANCHOR MIN. 12 OZS. MAX. 15 OZS. TO STRETCH SPRING TO INSTALLED LENGTH AS SHOWN.

3.12 Time Delay Mechanism continued



NECESSARY, REFINE ADJUSTMENT

3.13 Time Delay Mechanism continued



TIME DELAY DISABLING DEVICE

REQUIREMENT

DISABLE THE TIME DELAY MECHANISM WHEN NOT REQUIRED.

TO ADJUST

LOOSEN THE ADJUSTING LEVER MOUNTING SCREW AND PRESS DOWNWARD ON THE LEVER TO RAISE ECCENTRIC FOLLOWER OUT OF ENGAGEMENT WITH ITS RATCHET WHEEL.

3.14 Synchronous Pulse Mechanism



ARMATURE LEVER

SPRING POST

3.15 Synchronous Pulse Mechanism continued



3.16 Synchronous Pulse Mechanism continued







3.18 Remote Control Gear Shift Mechanism



3.19 Remote Control Gear Shift Mechanism continued



3.20 Perforator Motor

PERFORATOR MOTOR PINION AND DRIVEN GEAR MESH

REQUIREMENT

MIN. 0.004 INCH

MAX. 0.008 INCH

BACKLASH BETWEEN MOTOR PINION AND DRIVEN GEAR AT POINT OF MINIMUM BACKLASH. TO CHECK

- (1) LOOSEN THE FOUR MOTOR MOUNTING SCREWS.
- (2) LOOSEN THE TWO NUTS WHICH LOCK THE ADJUSTING BUSHINGS AT THE RIGHT END OF THE MOTOR (REAR VIEW)

TO ADJUST

- (1) BACK OFF A FEW TURNS ON THE REAR ADJUSTING BUSHING TO PROVIDE ENOUGH CLEARANCE TO MAKE THE ADJUSTMENT.
- (2) BY MEANS OF THE FRONT ADJUSTING BUSHING, ADJUST THE MOTOR HEIGHT TO MEET RE-QUIREMENT AT THE PINION AND DRIVEN GEARS. TIGHTEN THE LOCK NUT.
- (3) TURN THE REAR ADJUSTING BUSHING UNTIL IT TOUCHES THE MOUNTING PLATE. TIGHTEN THE LOCK NUT.





3.22 Answer-Back Mechanism

- NOTE 1: ADJUSTMENTS ON THIS PAGE SHOULD BE MADE WITH THE ANSWER-BACK MECHANISM REMOVED FROM THE KEYBOARD.
- NOTE 2: FOR "HERE IS" KEYLEVER SWITCH REQUIREMENTS SEE UNIVERSAL KEYBOARD SWITCH ADJUSTMENTS, PAGE 47.



Figure 2-28 — Answer-Back Mechanism

3.23 Answer-Back Mechanism continued



3.24 Answer-Back Mechanism continued

NOTE: TO FACILITATE MAKING THIS ADJUSTMENT, REMOVE MESSAGE DRUM AND DRIVE PLATE ASSEMBLY FROM MECHANISM.



3.25 Answer-Back Mechanism continued



NOTE: THE STANDARD KEYBOARD ADJUSTMENTS LISTED BELOW SHOULD BE CHECKED DURING INSTALLATION OF THE ANSWER-BACK MECHANISM. A. CODE BAR AND CODE LEVER CLEARANCE, PAGE 4.

- B. CODE BAR BAIL, PAGE 11.
- C. CODE BAR BAIL AND NON-REPEAT LEVER CLEARANCE, PAGE 11.
- D. UNIVERSAL BAIL LATCH LEVER, PAGE 13.
- E. UNIVERSAL BAIL EXTENSION, PAGE 13.

3.26 Answer-Back Mechanism continued

MAX. 0.015 INCH

TO CHECK

SIGNAL GENERATOR CLUTCH FULLY DISENGAGED. STOP LEVER LATCHED ON MAGNET ARM-ATURE LATCH.

TO ADJUST

WITH LOCK NUT LOOSENED, POSITION LATCH OPERATING ADJUSTING SCREW.

3.28 Answer-Back Mechanism continued

 REMOVE MESSAGE DRUM FROM ANSWER BACK ASSEMBLY AND TAKE OUT CODE BLADES AS FOLLOWS: REMOVE DRIVE LINK SPRING ALLOWING DRIVE LINK TO DROP OUT OF ENGAGEMENT WITH STUD ON DRIVE PLATE. LIFT MESSAGE DRUM FROM NOTCHES. DEPRESS STEPPING PAWL EXTENSION AND PULL DRUM OFF SHAFT. REMOVE "O" RING FROM ONE END OF DRUM AND TAKE OUT TWENTY CODE BLADES. IT IS NOT NECESSARY TO TAKE OUT STOP BLADE.

3.30 Answer-Back Mechanism ("Figs D")

NOTE

KEYBOARD LOCK BAIL ECCENTRIC

REQUIREMENT

CLEARANCE BETWEEN KEYBOARD LOCK LEVER W/HUB AND KEYBOARD LOCK FUNCTION LEVER SHOULD BE

MIN. SOME --- MAX. 0.006 INCH

TO CHECK

FULLY DEPRESS BOTH "KYBD LOCK" AND "HERE IS" KEYS (HOLD LIGHTLY).

TO ADJUST

LOOSEN LOCK NUT AND POSITION ECCENTRIC WITH ITS HIGH POINT TOWARD FRONT OF KEYBOARD.

3. 31 Clutch Trip Delay Mechanism

CLUTCH TRIP DELAY

REQUIREMENT

PLACE KEYBOARD IN K-T POSITION. WITH KEYBOARD IN ITS TRIPPED POSITION AND SIGNAL GENERATOR SHAFT ROTATED SO THAT CLUTCH IS APPROXIMATELY 180 DEGREES FROM ITS LATCHED POSITION, DEPRESS LTRS KEYLEVER. SLOWLY CONTINUE ROTATION OF SIGNAL GENERATOR SHAFT IN CLOCKWISE DIRECTION NOTING GAP BETWEEN NEAREST EDGE OF CLUTCH SHOE LEVER AND CLUTCH STOP LEVER. CODEBAR BAIL SHALL NOT TRIP UNTIL GAP MEASURES

MIN. 3/8 INCH

MAX. 1/2 INCH

TO ADJUST

POSITION BLOCKING LEVER WITH CLAMPING SCREW FRICTION TIGHT, UTILIZING PRY POINTS PROVIDED.

NOTE: IF SIGNAL DISTORTION TEST SET IS AVAILABLE, MINIMUM GAP REQUIREMENT SHALL BE CONSIDERED MET IF 100 WPM SIGNAL GENERATOR STROBE REQUIREMENTS CAN BE MET.

TRIP DELAY TORSION SPRING REQUIREMENT

WITH KEYBOARD CLUTCH DISENGAGED, APPLY PUSH END OF 8 OZ. SCALE VERTICALLY TO EDGE OF FORMED END OF BLOCKING LEVER.

3.32 Auxiliary Contacts

3.34 Code Reading Contacts (Transmitting)

NOTE: REFER TO SECTION 573-139-700 FOR OTHER ADJUSTMENTS OF CODE READING CONTACTS.

60 Pages