TELETYPE CORPORATION Skokie, Illinois, U.S.A.

0

# 35 KEYBOARD AND BASE FOR KEYBOARD SEND-RECEIVE AND RECEIVE-ONLY SETS

### ADJUSTMENTS

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### GENERAL

1.01 This section covers adjustments for the 35 keyboard and base for keyboard sendreceive and receive-only sets. It is reissued to incorporate recent engineering changes. Arrows in the margins indicate changes and additions.

1.02 The adjustments of each unit are arranged in a sequence that would be followed if a complete readjustment of the unit were undertaken. Tools and spring scales required to perform the adjustments are listed



Figure 1 - 35 Keyboard for Send-Receive Sets with Answer-Back

in Section 570-005-800TC. After an adjustment has been completed, be sure to tighten any nuts or screws that may have been loosened. The adjusting illustrations, in addition to indicating the adjusting tolerances, positions of moving parts, and spring tension, also show the angle at which the scale should be applied when measuring spring tensions. If a part that is mounted on shims is to be removed, the number of shims used at each of its mounting screws should be noted so that the same shim pile-up can be replaced when the part is remounted.

1.03 When the 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 wedged firmly against the clutch drum.

1.04 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 operator's position in front of the unit.

1.05 The spring tensions given in this section are indicated values and should be checked with proper spring scales in the position indicated.

1.06 When cleaning plastic parts, use soap or detergent and water. Do not use solvents containing alcohol or chlorinated components.



Figure 2 - Wall Mounted Printer Base

SECTION 574-221-700

2. BASIC UNITS

Keyboard

2.01 Codebar and Spacebar Mechanisms



10

All codebars should move freely.

# To Adjust

With mounting screws for either the left or right codebar guides friction tight, position guides. Tighten screws.



### 2.02 Signal Generator Clutch and Gear Mechanism



# CLUTCH SHOE LEVER

## Requirement

Clearance when clutch is disengaged should be Min 0.055 inch---Max 0.085 inch less than when clutch is engaged.

To Check

Latch clutch in disengaged position and measure clearance. Rotate gear until oil hole is upward. Engage clutch and measure clearance.

To Adjust

Loosen the two adjusting disc clampscrews to position disc.









Min 3 oz---Max 5 oz -

to start primary shoe moving away from secondary shoe at point of contact.





Position guide by adjusting slot with four mounting screws loosened. Tighten screws.

# 2.07 Function Bail and Lock Ball Track Mechanism



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.

### 2.08 Codebar Bail Mechanism

# CODEBAR RESET BAIL LATCH SPRING



# 2.09 Codebar Bail Mechanism (continued)



2.10 Keytop Guide Mechanism



## KEYTOP GUIDE SPACING

Requirement Gap between frame and left and right mounting bracket should be Min 0, 141 inch---Max 0, 171 inch

To Adjust Tighten or loosen as required the four frame mounting screws.

## 2.11 Nonrepeat Lever Mechanism

# (B) NONREPEAT LEVER SPRING TENSION



Mechanism in initial trip-off condition, any key depressed, no power — Min some---Max 0.010 inch

between roller of reset bail and nonrepeat lever pick-up step.

### To Adjust

Loosen locknut and shoulder screw and move mechanism left or right.

<u>Note</u>: Do not permit clutch to rotate when tripping off.

2.12 Wedge Lock and Ball Track Mechanism

Note: Remove keyboard hood in order to make this adjustment. See disassembly and reassembly.

# (A) BALL WEDGE LOCK AND BALL TRACK CLEARANCE (PRELIMINARY)

### To Check

Depress Q and P keylever alternately with 32 oz pressure and measure clearance in each instance. There should be no clearance between lower edge of code lever extensions and bottom of slots in wedges.

## Requirement



# (C) BALL WEDGE LOCK, BALL ENDPLAY AND UNIVERSAL BAIL LATCH (FINAL)

Note: Perform this adjustment following UNIVERSAL BAIL EXTENSION (2.13) (Universal Bail Latchlever).

### Requirement (under power)

- Trip-off pressure of any key in row A should be Min 2 oz---Max 6 oz
- (2) Apply 6-1/2 oz pressure perpendicular to A key. depress each key in that row. The A key should trip each time a key is released.
- (3) Repeat (2) with the 6-1/2 oz pressure on extreme right key in that row.
- (4) The clutch should not trip when two keys are depressed simultaneously.
- (5) With 5-1/4 ± 1/4 oz applied to the spacebar, depréss carriage return key. The spacebar should trip each time the carriage return key is released (by moving the finger off the key in a horizontal direction).

### To Adjust

If necessary, refine BALL WEDGE LOCK AND BALL TRACK CLEARANCE (PRELIMINARY) (2.12), LOCK BALL ENDPLAY (PRELIMINARY) (2.12), UNIVERSAL BAIL LATCHLEVER (PRELIMINARY) (2.13), and UNIVERSAL BAIL EXTENSION (2.13).

### 2.13 Universal Bail Latchlever



Position rear blade with mounting screws loosened.

2.14 Local Line Feed Trip Link Mechanism



2.15 Inversion Codebar Latch Mechanism (Earlier Design)



## 2.15 Inversion Codebar Latch Mechanism (Later Design)



# INVERSION CODEBAR LATCH (LATER DESIGN)

Requirement

Signal generator clutch disengaged. ——Min 0.002 inch---Max 0.012 inch gap between number 5 and 8 inversion codebars and their respective latches. Check clearance at both the number 5 and 8 inversion codebars and adjust to whichever is closest.

To Adjust

With respective screws on inversion bail latch friction tight, move adjustable extension to obtain clearance. Tighten screws and recheck clearance.



# 2.18 Signal Contacts (continued)



2.19 Gold-Plated Signal Contacts

 (a) Units may have signal contacts made of either unplated or gold-plated tungsten.
 If in doubt as to the type of contacts, remove signal generator cover and inspect contacts for gold plating.

- (b) Cleaning
  - Use twill jean cloth (KS2423) to clean gold-plated contacts.

(2) Open contacts. Drop strip of twill jean between them. Close contacts. Draw twill jean part way through. Open contacts and withdraw twill jean.

- (3) This procedure prevents small fibres at edges of twill jean strip from becoming lodged between contacts.
- (4) Clean unplated tungsten contacts in accordance with standard procedures.
- (c) Servicing for special low-voltage applications.

 For standard applications including those with data sets, observe standard maintenance procedures and intervals.
 Special low-voltage applications are covered below. Note 4: If necessary, reposition stabilizer mechanism so end of stop image coincides with 0 mark of start pulse on scale. (Do not remove scale.)

(5) DXD strobing should yield allowable spacing signal distortion of  $\pm 12\%$ .

To Adjust

Loosen mounting screws and move contact box by means of eccentric.

(2) For optimum reliable operation in special low-voltage applications, clean gold-plated contacts with twill jean, as instructed above. The recommended cleaning interval for gold-plated contacts in special low-level applications (less than 250 microwatts) and having an average weekly use of 60 hours should not exceed 90 days. This interval may be reduced, dependent on the signal circuit configuration, usage, and environment.

Note 1: Applying operating voltage of standard distortion test set directly to contacts may damage gold plating and impair special low-voltage operation. When electrically adjusting or testing contacts (2.17) use an intermediate device, keyed by the contacts, to interrupt current to stroboscopic lamp of test set. This intermediate device must be capable of being keyed by a 3 to 20 volt change at maximum of 20 milliamperes.

Note 2: Normally for special low-voltage applications, contacts should be used in circuits operating between 3 and 20 volts dc at a current level not to exceed 60 milliamperes. Between 20 and 70 volts dc the current should be adjusted so as not to exceed a 120 milliwatt power level. The contacts are not normally intended for use on voltages above 70 volts dc. Exceeding this level for an appreciable length of time may result in damage to the gold plating and make them unfit for special low-voltage applications.

2.20 Code Lever and Local Carriage Return Function Bail Mechanism



5 - Mar

#### 2.21 Transfer Lever and Margin Indicator Mechanism



# 2.22 Mounting Typing Unit on Keyboard or Base



<u>Note</u>: Similar requirement for wall mounted printer. See 2.24 and Figure 2.

### SIGNAL GENERATOR FRAME

R FRAME rotate the motor by hand to properly mesh the gears. Secure by four mounting screws. Rotate the motor by hand to insure proper meshing of gears.

Requirement

With typing unit mounted in position, there should be a perceptible amount of backlash between the signal generator driven gear and the signal generator driving gear at the point where backlash is the least.

to the right and lower the right end into engagement with the

right locating stud. While easing the left end downward,

# To Adjust

Remove the signal generator frame rear mounting screw and loosen the shim screw. Add or subtract shims as required. TYPING UNIT



# 2.23 Keyboard or Base, Motor and Typing Unit Gearing

Note 1: Not applicable to wall mounted printer. See 2.24.

Note 2: This requirement should be checked with typing unit mounting screws tight.

### INTERMEDIATE GEAR ASSEMBLY



To Adjust

a

Loosen intermediate gear assembly mounting screws (4). Loosen two locknuts which lock adjusting bushings at rear of assembly. Loosen nut plate mounting screw just in front of gear bracket. Move assembly backward or forward and adjust height at rear by means of adjusting bushing nearest motor (back out other bushing for clearance after correct adjustment is obtained). Lock adjusting bushing nut, turn other bushing with fingers until it touches base, and tighten locknut.

# 2.24 Keyboard Wall Mounted Base, Motor and Typing Unit Gearing



The following list of keyboard adjustments, plus those shown in Par. 2.25 and Par. 2.26 constitute the adjustments for an RO base.

| ANSWER-BACK MAIN SHAFT GEAR (if so equipped)  | Par. 3.01 |
|---|-----------|
| INTERMEDIATE GEAR ASSEMBLY                    | Par. 2.23 |
| WALL MOUNTED INTERMEDIATE GEAR ASSEMBLY       | Par. 2.24 |
| FUNCTION BAIL LEVERS AND CODE LEVER CLEARANCE | Par. 2.07 |
| MARGIN INDICATOR SPRING                       |           |
| MOUNTING TYPING UNIT ON KEYBOARD OR BASE      | Par. 2.22 |

2.25 Local Carriage Return Function Bail Mechanism



BAIL RESTORING SPRING

2.26 Local Line Feed Mechanism



### 3. VARIABLE FEATURES

### 3.01 Answer-Back Mechanism

Note 1: See appropriate section for adjustments of the answer-back mechanism. Not applicable to wall mounted printer.

### ANSWER-BACK MAIN SHAFT GEAR

### Requirement

There should be Min 0.004---Max 0.008 backlash at the point of minimum clearance between the answer-back main shaft gear and the outboard gear of the intermediate gear assembly on the keyboard or base. Gauge by feel.

### To Adjust

With two nut plate screws tightened to friction tight, loosen the four answer-back mounting screws. Taking up all play in the answer-back mounting holes toward the front of the answerback, position the assembly until the requirement is met. Tighten all screws. The answer-back assembly may be removed and replaced without remaking the adjustment by taking up all play in the mounting holes in the same manner.



<u>Note 2:</u> This adjustment is made after the intermediate gear assembly to typing unit gear adjustment and motor pinion gear adjustments have been made.

# 3.02 Timing Contact Mechanism (Early Design)

### TIMING CONTACT

(1) Requirement

Contacts should be closed when nylon pad is raised 0.007 inch. Contacts should be open when nylon pad is raised 0.015 inch.

Note 1: Identification mark viewed on top side of hex and follower on low part of cam.

### (2) Requirement

— Min 0.003 inch

gap between contacts with the follower on any peak of cam. — Min 0.002 inch gap on units prior to serial #88,800.



### To Adjust

Loosen two timing contact bracket posts. With screwdriver between bracket upright and rear plate adjust gap Min some---Max 0.010 inch Adjust eccentric screw to meet (2) Requirement.

Note 2: Use signal checking device to refine this adjustment.

# 3.03 Timing Contact Mechanism (Early Design) (continued)



To Adjust

Remove contact assembly from unit by removing two studs securing it to rear plate. Loosen two screws holding contact pile-up to contact assembly bracket and bend contact using spring bender TP110455 until requirement is met.

Note: Check timing contact swinger spring tension and refine if necessary.

3.04 Timing Contact Mechanism (Later Design)

## TIMING CONTACT

- (1) Requirement With unit in the stop position, there should be a gap between contact points Min 0.008 inch---Max 0.011 inch
- (2) Requirement

With the cam follower on the low parts of the cam, and the clearance taken up between the plunger and the cam follower, there should be some clearance between plunger and contact swinger.— PLUNGER

REAR PLATE

SPRING POST

PLUNGER

REAR PLATE

SPRING POST

STUD

To Adjust

Loosen the two posts holding the timing contact bracket to friction tightness. Position the bracket in order to meet (1) and (2) Requirements. Tighten the posts and recheck the adjustment.

Note: The <u>TIMING CAM FOLLOWER</u> <u>SPRING</u> (3.05) adjustment should be made before the <u>TIMING CONTACT</u> adjustment. If available, use a signal checking device to refine the <u>TIMING</u> CONTACT adjustment.

CAM

FOLLOWER

► CAM FOLLOWER 3.05 Timing Contact Mechanism (Later Design) (continued)

### TIMING CAM FOLLOWER SPRING

To Check

Timing contact assembly must be moved out of contact with the cam follower and spring post tightened to check this requirement and <u>TIMING CONTACT SWINGER SPRING</u> (3.06) adjustment.

Requirement

With the signal generator in the latched position, apply the pull end of scale to the cam follower

---- Min 6 oz---Max 9 oz

to start cam follower moving.



4

3.06 Timing Contact Mechanism (Later Design) (continued)

# TIMING CONTACT SWINGER SPRING







Note: The timing contacts should be open when the clutch is disengaged.

# 3.08 Auxiliary Contact Mechanism

### CONTACT SWINGER SPRING

#### Requirement

Contacts closed Min 2 oz---Max 3-1/2 oz to just open contacts.

To Adjust Use spring bender TP110455.

### CONTACT GAP

### Requirement

Clutch latched, cam follower on high part of cam. Contact gap should be Min 0.005 inch---Max 0.015 inch

### To Adjust

Loosen posts that hold contact bracket. Position bracket by use of screwdriver placed between bracket upright and rear plate.

### CAM FOLLOWER SPRING

Requirement Signal generator latched. Contact spring held back — Min 6 oz to start cam follower moving.

REAR PLATE

CONTACT BRACKET POSTS

CONTACT STIFFENER SPRING

Requirement

Contact open — Min 5 oz---Max 8 oz to move contact.

To Adjust

Remove contact assembly from unit by removing two studs securing it to rear plate. Loosen two screws holding contact pile-up to contact assembly bracket and bend contact using TP110455 spring bender until requirement is met.

CAM FOLLOWER

Note 1: Check timing contact swinger spring tension and refine if necessary.

Note 2: See Par. 3.14 for AUXILIARY CONTACT REFINEMENT (STROBING).

### 3.09 Code Reading Contact Mechanism

Note 1: Adjustments on this page should be made with the contact assembly removed from the keyboard.

Note 2: Each adjustment should start with the contact pile-up farthest from the handle of the bending tool (Par. 3.10).



3.10 Code Reading Contact Mechanism (continued)

### ADJUSTING CODE READING CONTACTS

Note: The contact assembly should be removed from the keyboard to perform the adjustments of Par. 3.09. It is not necessary to remove the wires from the assembly.



### Requirement

Each adjustment should start with the contact pile-up farthest from the handle of the bending tool.

### To Adjust

After adjusting contact pile-ups 4, 3, 2, and 1, insert the bending tool in the opposite side of the assembly and adjust contact pile-ups 5, 6, 7, and 8 in the order given.
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## 3.11 Code Reading Contact Mechanism (continued)

<u>Note</u>: Perform (A), then install contact assembly on the keyboard for the remaining code reading contact adjustments.

(B) MARKING CONTACT GAP



3.12 Code Reading Contact Mechanism (continued)



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## 3.13 Code Reading Contact Mechanism (continued)

<u>Note 1:</u> The following tests should be performed using a DXD test set, if available, after the contact assembly has been installed and all adjustments have been made.

Note 2: Minimum signal lengths apply to time between latest start and earliest end of all contact traces.

#### CODE READING CONTACT REFINEMENT (STROBING)

#### (1) Requirement

Zero the strobe unit (DXD) as follows:

- (a) Connect strobe neon trace to code reading contact no. 1. Send rubout combination from keyboard. Note latest point at which trace begins.
- (b) Repeat step (a) for all code reading contacts.
- (c) Choose trace that starts latest and set "start-zero" mark of strobe scale to this point.
- (d) Record earliest end of neon traces for future adjustment references.

#### (2) Requirement

Connect neon trace lamp to marking contact (contact that is normally open when keyboard is idle) of code reading contact assembly.

- (a) Send rubout combination from keyboard.
- (b) Combined code reading contact traces should have minimum signal length of 500 divisions (length between latest start and earliest end) and all bounce should end within 20 divisions of latest start of a contact trace. See Par. 3.14 for figure of strobe trace.

Repeat (2) Requirement for each code reading contact.

To Adjust

Refine <u>BACKSTOP-NORMALLY CLOSED CONTACT</u> (3.09) adjustment. Refine <u>NORMALLY CLOSED CONTACT SPRING</u> (3.09) and <u>CONTACT SWINGER</u> <u>SPRING</u> (3.09) adjustments if there is excessive bounce. 3.14 Code Reading Contact Mechanism (continued) Auxiliary Contact Mechanism (continued)

# AUXILIARY CONTACT REFINEMENT (STROBING)

Note 1: The following tests should be performed using a DXD test set, if available, after the contact assembly has been installed and all adjustments have been made.

Note 2: Minimum signal lengths apply to time between latest start and earliest end of all contact traces.

Note 3: Zero the strobe unit (DXD) as explained in (1) Requirement of Par. 3.13.

 Requirement Connect strobe neon trace to auxiliary contacts.

(2) Requirement Send rubout combination from keyboard.

(3) Requirement

- End of neon trace should occur at a minimum of 22 divisions before earliest end of code read contact traces (including any bounce). Start of trace should begin at a minimum of 143 divisions after the strobe "start-zero" mark. The pulse must be at least 250 divisions long.

#### To Adjust

Refine CONTACT GAP (3.08) adjustment.



## 3.15 Strobing Requirement

Note 1: The following tests should be performed using a DXD test set, if available.

Note 2: For units equipped with signal regenerators, remove regenerator circuit card before applying test set probes to signal contacts.



### CODE READING AND TIMING CONTACTS



CAUTION: APPLYING OPERATING VOLTAGE OF SIGNAL DISTORTION TEST SET DIRECTLY TO GOLD-PLATED SIGNAL CONTACTS MAY MAKE THEM UNSUITABLE FOR LOW-VOLTAGE APPLICATIONS. SEE PAR. 2.19 FOR SERVICING INSTRUCTIONS.

# 3.16 Local Backspace Mechanism

# BACKSPACE TRANSFER BAIL ADJUSTING LEVER

## Requirement

Downward pressure on backspace key Min 16 oz---Max 28 oz to operate backspace lever.



TRANSFER BAIL ADJUSTING LEVER

#### To Adjust

Position transfer bail adjusting lever with its mounting screw loosened. If unit is forward spacing, the adjusting lever must be raised until proper backspacing is accomplished.

Note 1: This adjustment may require remaking when a different typing unit is used.

Note 2: The camming bail should return to its unoperated position when the keylever is released. Refine adjustment if necessary.

# BACKSPACE TRIP LINK HORIZONTAL SPRING



# 3.17 Receive-Break Switch Mechanism

# RECEIVE-BREAK SWITCH

To Check

Keyboard lock plunger in downward position. Function bail latched.

#### Requirement

The bail should operate the contact pile-up with some overtravel.

### To Adjust

Loosen locknut on adjusting screw and position screw. Recheck for overtravel.

#### RECEIVE-BREAK SWITCH TENSION

#### Requirement

Normally open contacts should close and normally closed contacts should open — Min 10 oz---Max 16 oz

## To Adjust

Bend leaves carefully to meet requirements.



# 3.18 Keyboard Universal Contact Mechanism



3.19 Codebar Arrangement for Even Parity



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4

# 3.20 Local Single Line Feed Mechanism

# LOCAL SINGLE LINE FEED TRIP LINK VERTICAL SPRING



## LOCAL SINGLE LINE FEED TRIP LINK HORIZONTAL REAR SPRING

#### Requirement

Unhook spring Min 1-1/2 oz---Max 3-1/2 ozto pull spring to installed length.

# LOCAL SINGLE LINE FEED TRIP LINK HORIZONTAL FRONT SPRING

#### Requirement

Unhook spring Min 1-1/2 oz--Max 2-1/2 oz-

to pull spring to installed length.

# 3.21 Universal Keyboard Switch Mechanism

Note: Suitable arc suppression should be provided when warranted.

# KEYBOARD SWITCH (HORIZONTAL)

Requirement

Align contact assembly, guide, and code lever assembly. There should be

To Adjust

Loosen screw holding the contact assembly to the retainer bars and adjust. Tighten screw.

(2) Requirement

Clearance between the contact assembly spring and the keyboard wedge retainer should be Min 0.062 inch

To Adjust

Bend the retainer bar if necessary.



# 3.22 Universal Keyboard Switch Mechanism (continued)

## KEYLEVER SWITCH (VERTICAL)

(1) Requirement

With unit in stop position and keylever depressed to a point where clutch engages, center and lower contact should just close or have a maximum gap of 0.008 inch.

(2) Requirement

For keylevers which do not cause clutch engagements, and with keylever unoperated, tip of code lever lobe should overlap contact swinger by Min some---Max 0,020 inch

To Adjust

Loosen two screws which fasten two brackets on the two studs and position complete mounting assembly.



3.23 Local Reverse Line Feed Mechanism

LOCAL REVERSE LINE FEED TRIP LINK VERTICAL SPRING

Requirement Typing unit removed. Min 1-1/2 ozs---Max 2-1/2 ozs To pull spring to installed length.

