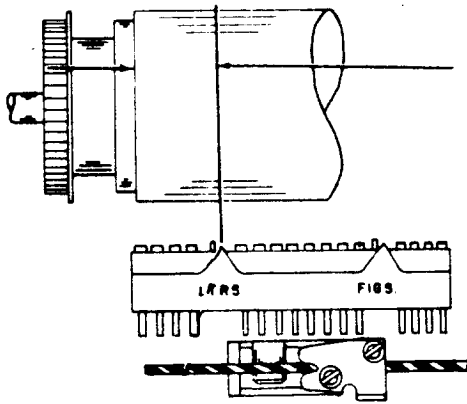


TYPING UNIT, CARRIAGE RETURN MECHANISM

LEFT MARGIN

(1) REQUIREMENT (72 CHARACTER LINE)

TYPE BOX CLUTCH DISENGAGED. SPACING DRUM IN RETURNED POSITION. TYPE BOX SHIFTED TO LETTERS POSITION. CLEARANCE BETWEEN LEFT EDGE OF PLATEN AND LETTERS PRINT INDICATOR.

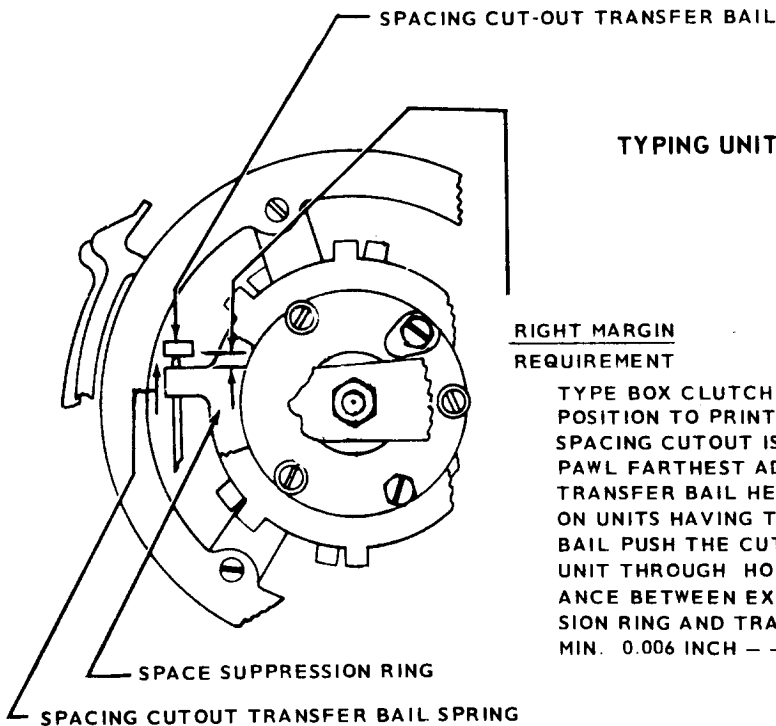
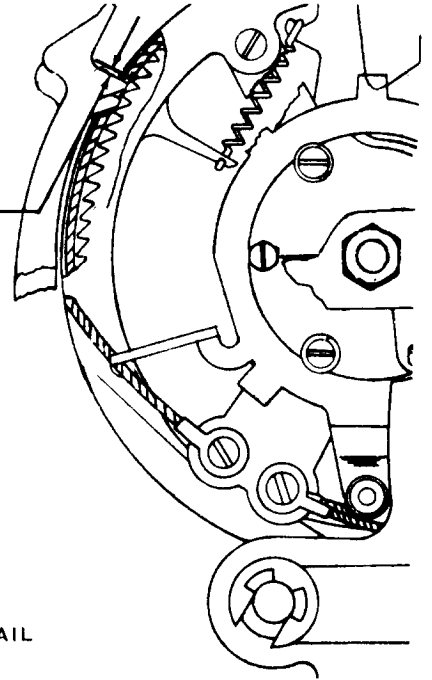
MIN. .1516 INCH MAX. 1-1/16 INCH

(2) REQUIREMENT

SPACING CLUTCH DISENGAGED. FRONT SPACING FEED PAWL FARTHEST ADVANCED. SPACING DRUM FULLY RETURNED. PLAY IN SPACING SHAFT GEAR TAKEN UP CLOCKWISE. CLEARANCE BETWEEN PAWL AND SHOULDER OF RATCHET WHEEL TOOTH IMMEDIATELY AHEAD
MIN. 0.002 INCH
MAX. 0.015 INCH

(3) REQUIREMENT

REAR PAWL, WHEN FARTHEST ADVANCED, SHOULD REST AT BOTTOM OF INDENTATION BETWEEN RATCHET WHEEL TEETH.



TYPING UNIT, SPACE SUPPRESSION

RIGHT MARGINREQUIREMENT

TYPE BOX CLUTCH DISENGAGED. CARRIAGE IN POSITION TO PRINT CHARACTER ON WHICH SPACING CUTOUT IS TO OCCUR. FRONT FEED PAWL FARTHEST ADVANCED. SPACING CUTOUT TRANSFER BAIL HELD IN ITS UPPERMOST POSITION. ON UNITS HAVING TWO PIECE SPACING CUTOUT BAIL PUSH THE CUTOUT BAIL TOWARDS REAR OF UNIT THROUGH HOLE IN FRONT PLATE. CLEARANCE BETWEEN EXTENSION ON SPACE SUPPRESSION RING AND TRANSFER BAIL
MIN. 0.006 INCH — — — MAX. 0.025 INCH

To Adjust:

Type 28 - B. S. P. 573-115-700

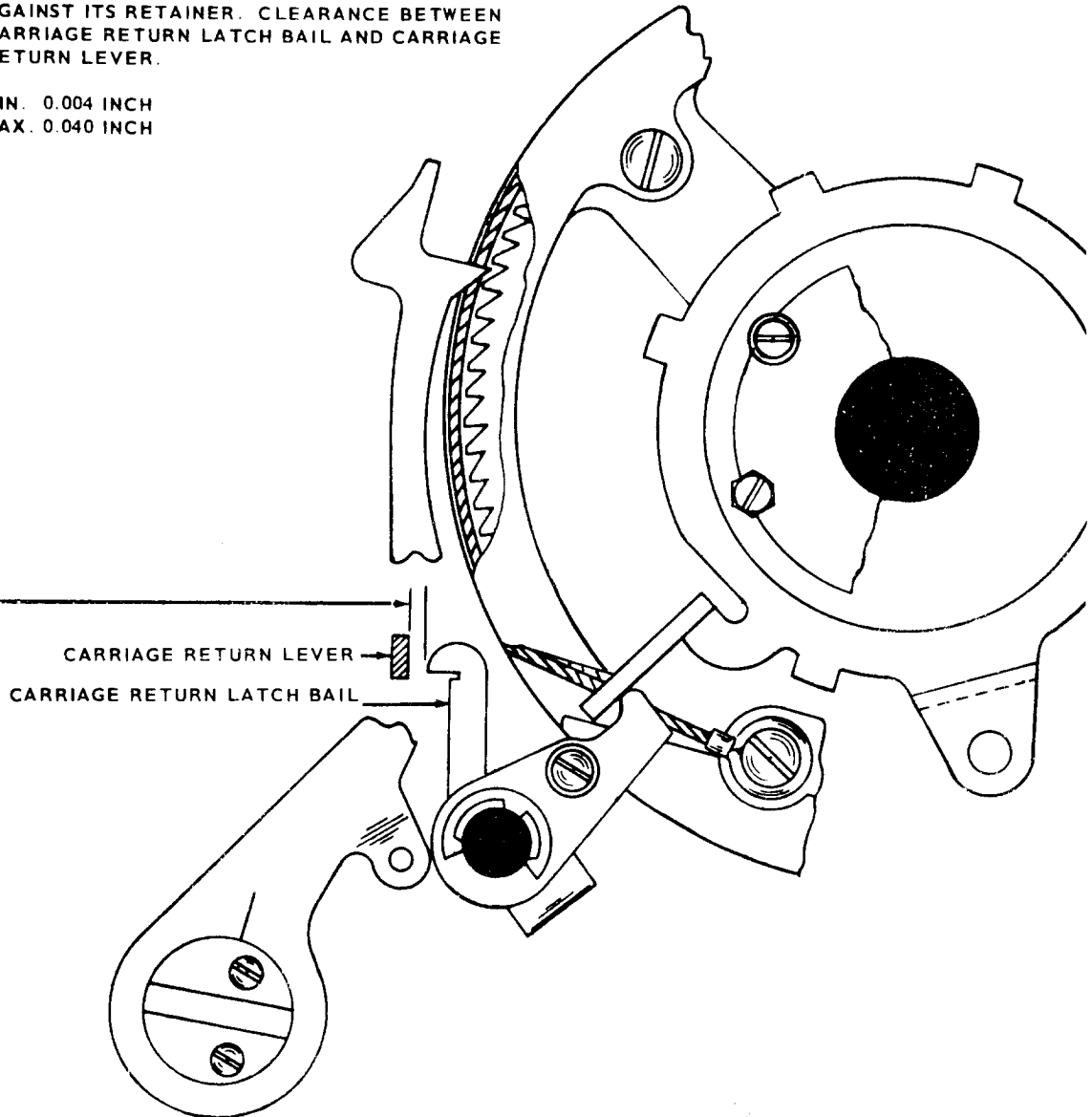
Type 35 - B. S. P. 574-220-700

CARRIAGE RETURN LATCH BAIL

REQUIREMENT

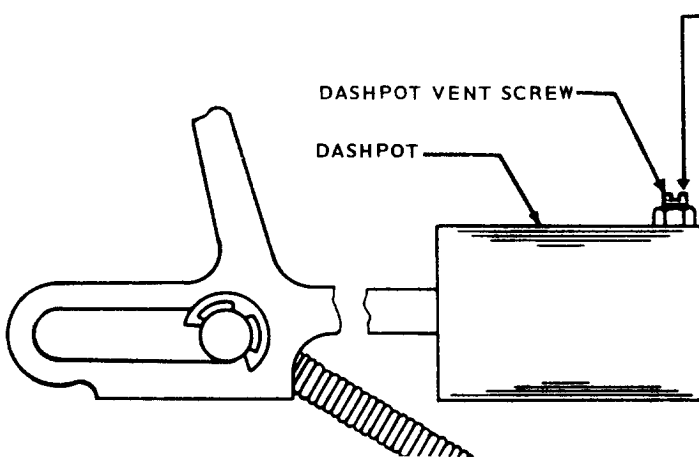
CARRIAGE FULLY RETURNED
PLAY IN CARRIAGE RETURN BAIL TAKEN UP
TO RIGHT BY HOLDING RIGHT SIDE OF BAIL
AGAINST ITS RETAINER. CLEARANCE BETWEEN
CARRIAGE RETURN LATCH BAIL AND CARRIAGE
RETURN LEVER.

MIN. 0.004 INCH
MAX. 0.040 INCH



To Adjust:
Type 28 - B. S. P. - 573-115-700
Type 35 - B. S. P. 574-220-700

TYPING UNIT, DASHPOT



DASHPOT VENT SCREW

REQUIREMENT

TYPE BOX CARRIAGE SHOULD RETURN FROM ANY LENGTH OF LINE WITHOUT BOUNCING.

TO CHECK

PRINTER OPERATED AT ANY SPEED FROM AUTOMATIC TRANSMISSION WITH ON CR AND ONE LF SIGNAL BETWEEN LINES. FIRST CHARACTER EACH LINE SHOULD BE PRINTED IN SAME LOCATION AS IF UNIT WAS MANUALLY OPERATED SLOWLY.

TYPING UNIT, CARRIAGE RETURN

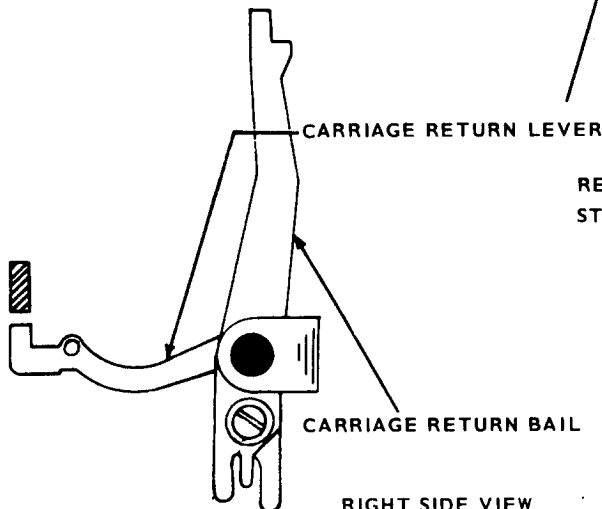
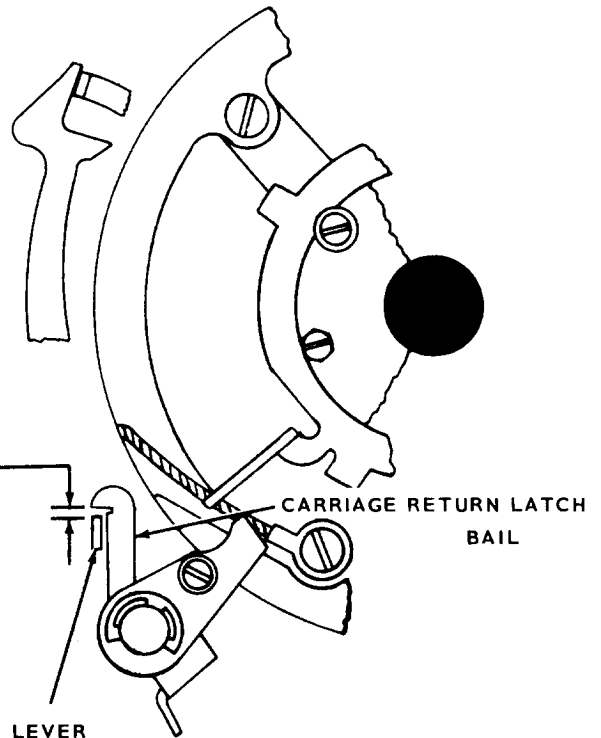
CARRIAGE RETURN LEVER

REQUIREMENT (UNITS EQUIPPED WITH ONE-STOP FUNCTION CLUTCH)

CARRIAGE RETURN FUNCTION SET UP ON ON SELECTOR. MAIN SHAFT ROTATED UNTIL FUNCTION CLUTCH STOP LUG IS TOWARD BOTTOM OF UNIT. CARRIAGE RETURN FUNCTION PAWL HOOKED OVER ITS FUNCTION BAR. SPACING DRUM HELD SO THAT CARRIAGE RETURN LATCH BAIL IS LATCHED.

CLEARANCE BETWEEN LATCH BAIL AND CARRIAGE RETURN LEVER.

MIN. 0.006 INCH --- MAX. 0.035 INCH



REQUIREMENT (UNITS EQUIPPED WITH TWO-STOP FUNCTION CLUTCH)

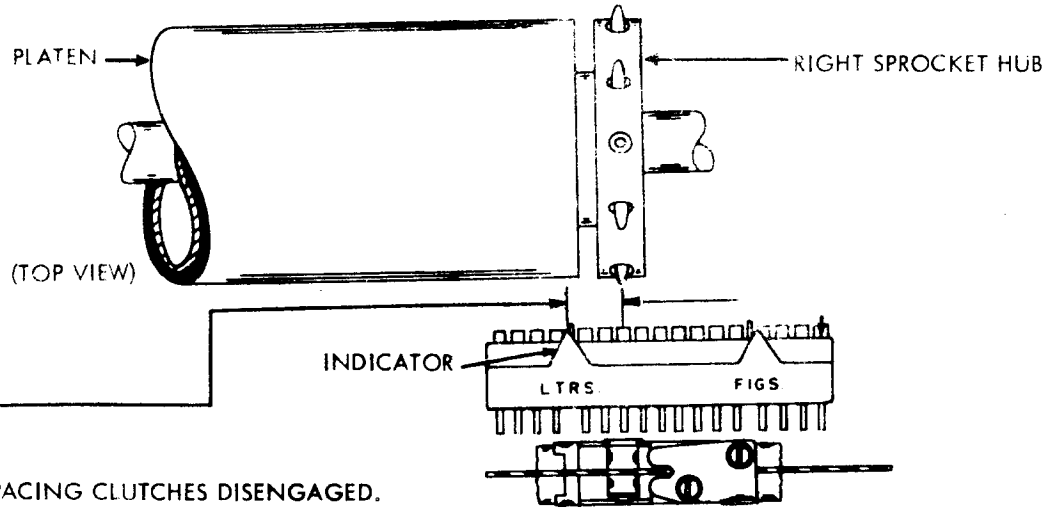
SAME EXCEPT MAIN SHAFT SHOULD BE ROTATED UNTIL FUNCTION CLUTCH IS DISENGAGED IN STOP POSITION THAT RESULTS IN LEAST CLEARANCE.

To Adjust:

Type 28 - B. S. P. 573-115-700

Type 35 - B. S. P. 574-220-700

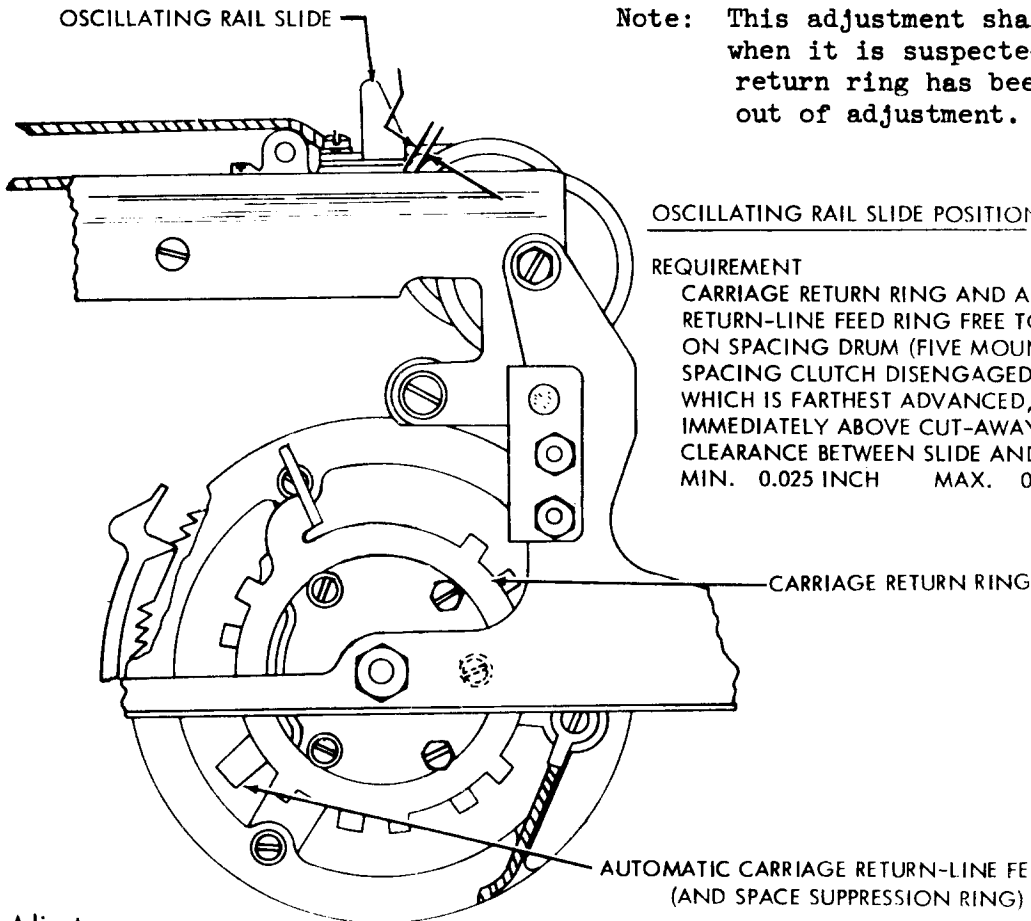
PLATEN AND PRINTING MECHANISM (SPROCKET FEED)



TYPE BOX POSITION

REQUIREMENT

TYPE BOX AND SPACING CLUTCHES DISENGAGED.
 TYPE BOX SHIFTED TO LTRS. POSITION. FOUR
 MOUNTING SCREWS LOOSENED SO THAT SPACE
 SUPPRESSION RING, OR AUTOMATIC CARRIAGE RE-
 TURN LINE FEED RING, IS FREE TO ROTATE ON DRUM.
 CLEARANCE BETWEEN LTRS. PRINT INDICATOR AND
 CENTER LINE OF SPROCKET PINS IN RIGHT HUB:
 MIN. 5/16 INCH
 MAX. 7/16 INCH



Note: This adjustment shall only be checked when it is suspected that the carriage return ring has been disturbed or is out of adjustment.

OSCILLATING RAIL SLIDE POSITION

REQUIREMENT

CARRIAGE RETURN RING AND AUTOMATIC CARRIAGE
 RETURN-LINE FEED RING FREE TO ROTATE
 ON SPACING DRUM (FIVE MOUNTING SCREWS LOOSENED.)
 SPACING CLUTCH DISENGAGED. FEED PAWL,
 WHICH IS FARTHEST ADVANCED, ENGAGING TOOTH
 IMMEDIATELY ABOVE CUT-AWAY SECTION OF RATCHET.
 CLEARANCE BETWEEN SLIDE AND PULLEY
 MIN. 0.025 INCH MAX. 0.050 INCH

To Adjust:
 Type 28 - B. S. P. - 573-115-700
 Type 35 - B. S. P. - 574-220-700

TYPING UNIT, FUNCTION PAWL STRIPPER

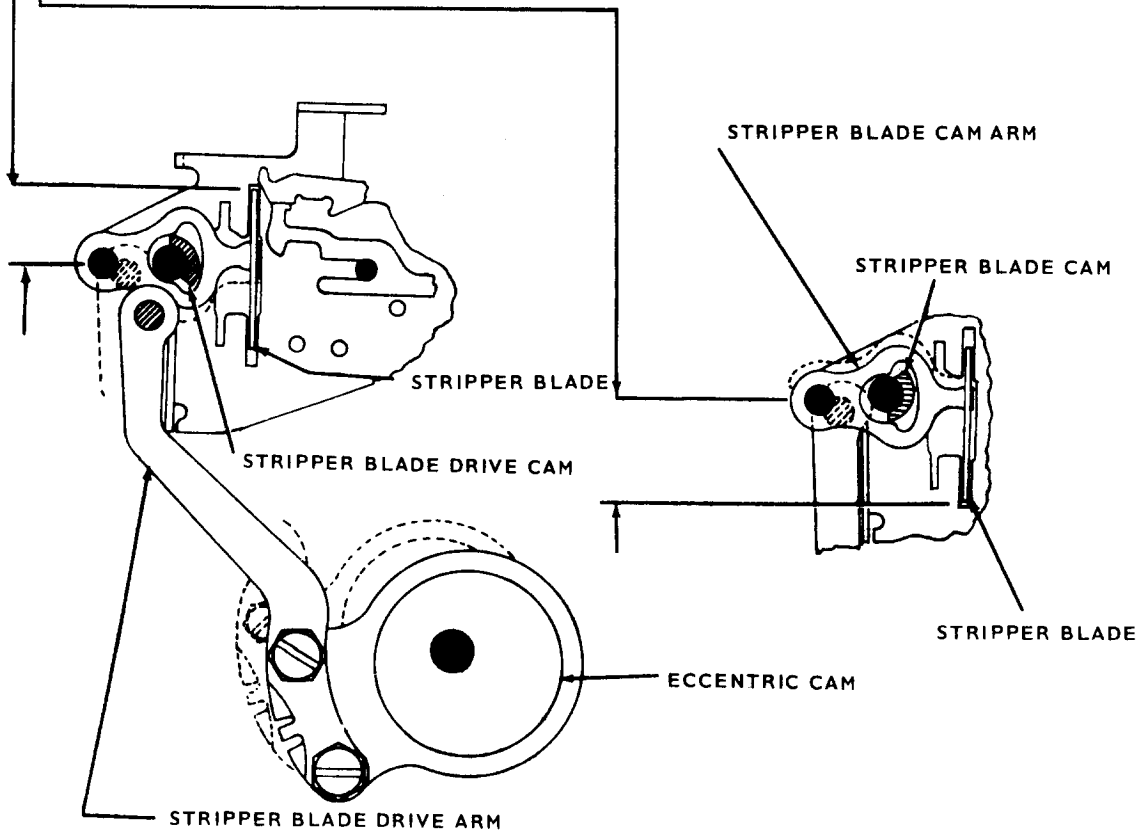
STRIPPER BLADE DRIVE CAM POSITION
REQUIREMENT

STRIPPER BLADE DRIVE CAM SHOULD MOVE EACH STRIPPER BLADE CAM ARM AN EQUAL DISTANCE ABOVE AND BELOW CENTER LINE OF ITS PIVOT (GAUGE BY EYE)

- A. UPWARD DIRECTION
B. DOWNWARD DIRECTION

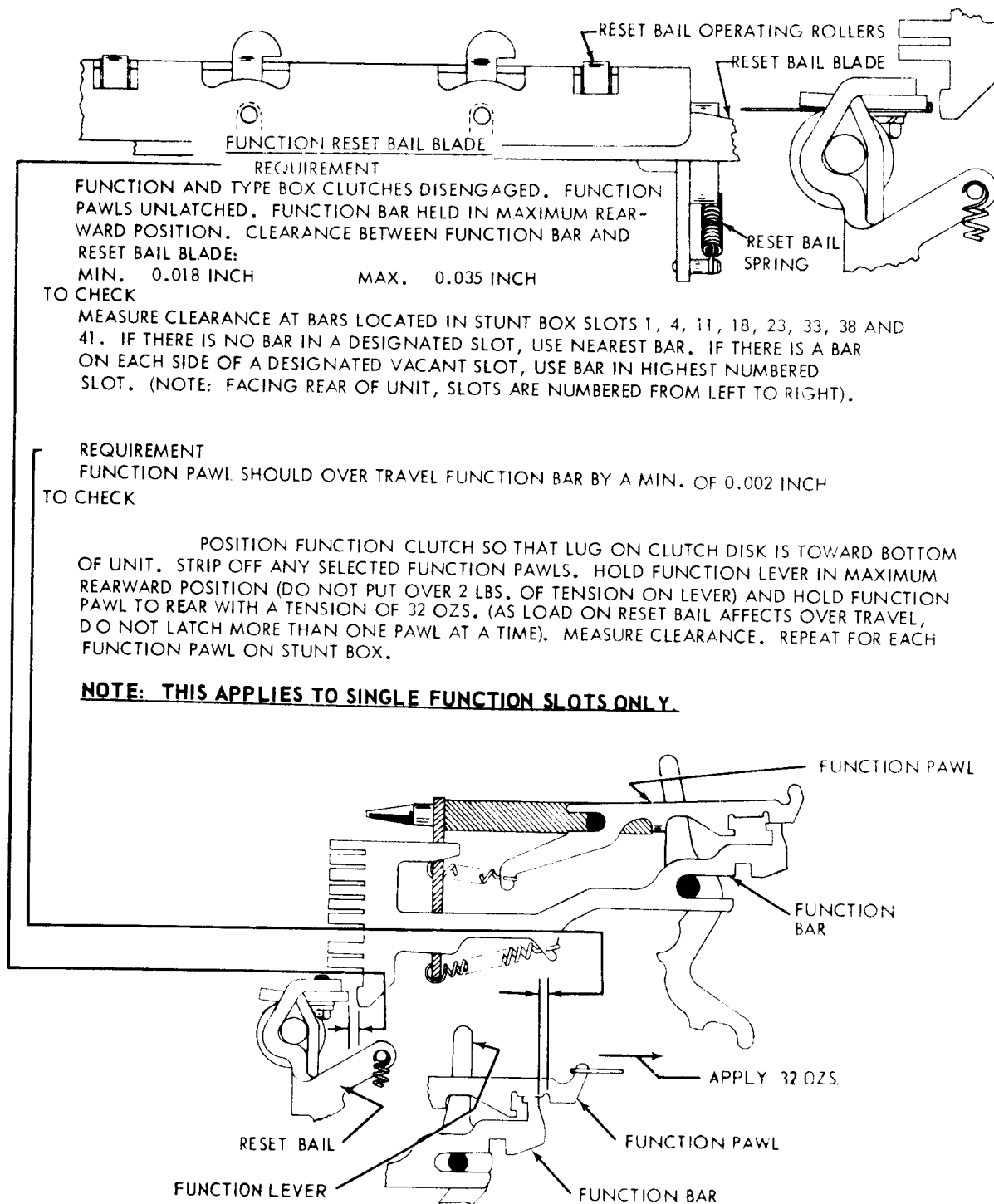
TO CHECK

WITH FUNCTION CLUTCH DISENGAGED OBSERVE ENGAGEMENT OF STRIPPER BLADE DRIVE CAM (UPPER PEAK) WITH STRIPPER BLADE CAM ARM. THEN ROTATE CLUTCH TO TURN CAM TO ITS EXTREME DOWNWARD POSITION AND OBSERVE ENGAGEMENT OF LOWER CAM PEAK.



To Adjust:
Type 28 - B. S. P. - 573-115-700
Type 35 - B. S. P. - 574-220-700

RESET BAIL

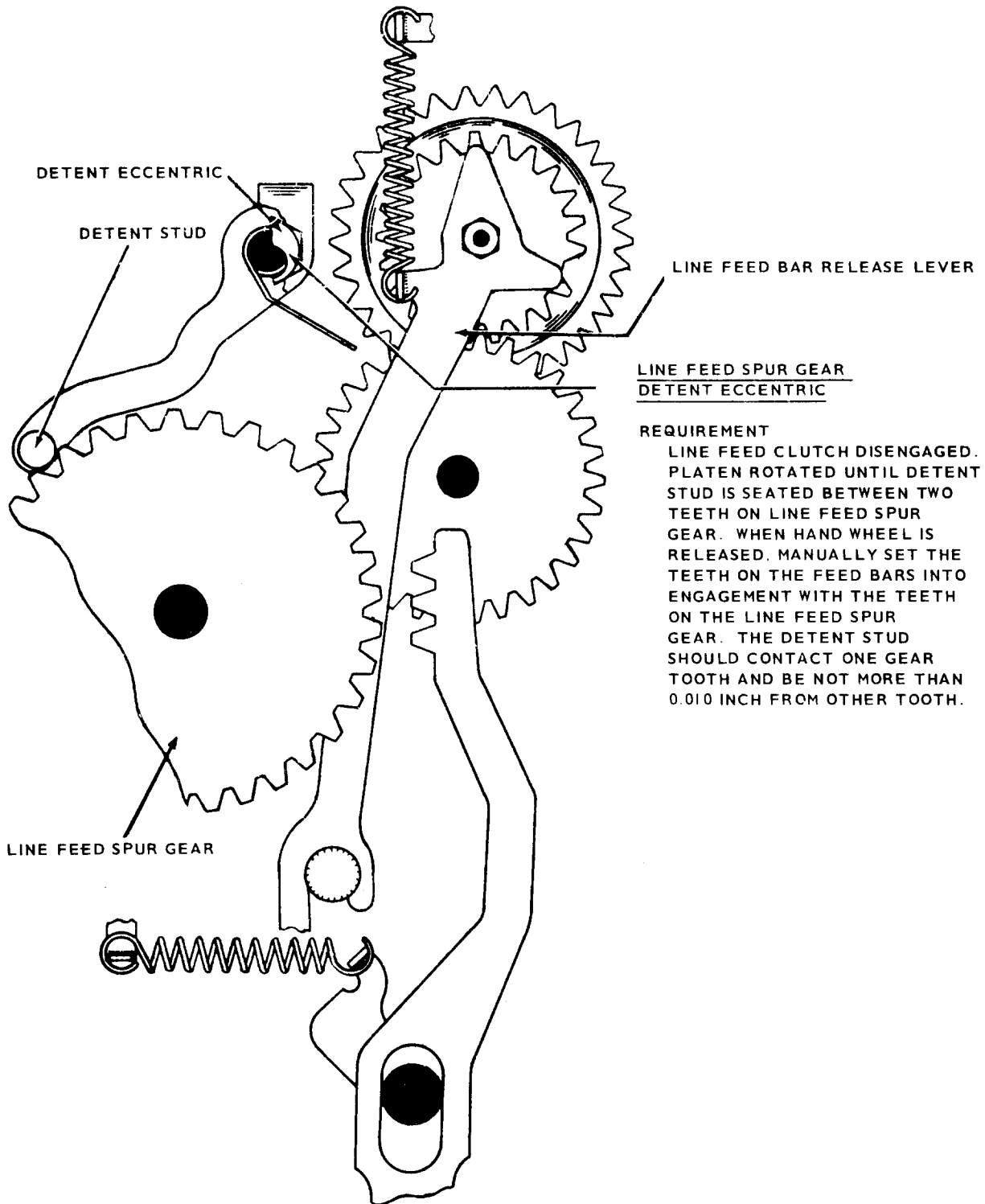


To Adjust:

Type 28 - B. S. P. - 573-115-700

Type 35 - B. S. P. - 574-220-700

TYPING UNIT, LINE FEED MECHANISM, RIGHT SIDE

**REQUIREMENT**

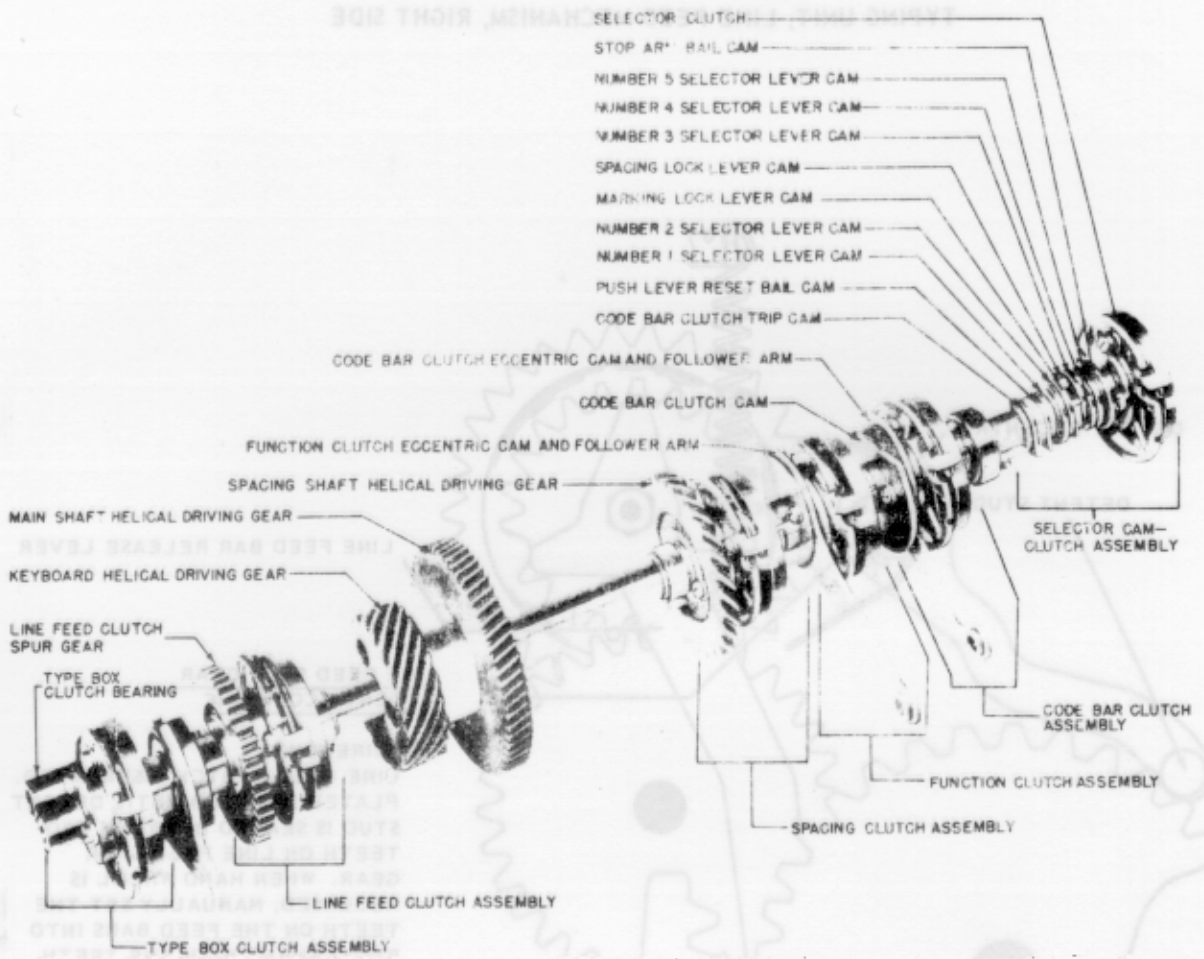
LINE FEED CLUTCH DISENGAGED. PLATEN ROTATED UNTIL DETENT STUD IS SEATED BETWEEN TWO TEETH ON LINE FEED SPUR GEAR. WHEN HAND WHEEL IS RELEASED, MANUALLY SET THE TEETH ON THE FEED BARS INTO ENGAGEMENT WITH THE TEETH ON THE LINE FEED SPUR GEAR. THE DETENT STUD SHOULD CONTACT ONE GEAR TOOTH AND BE NOT MORE THAN 0.010 INCH FROM OTHER TOOTH.

To Adjust:

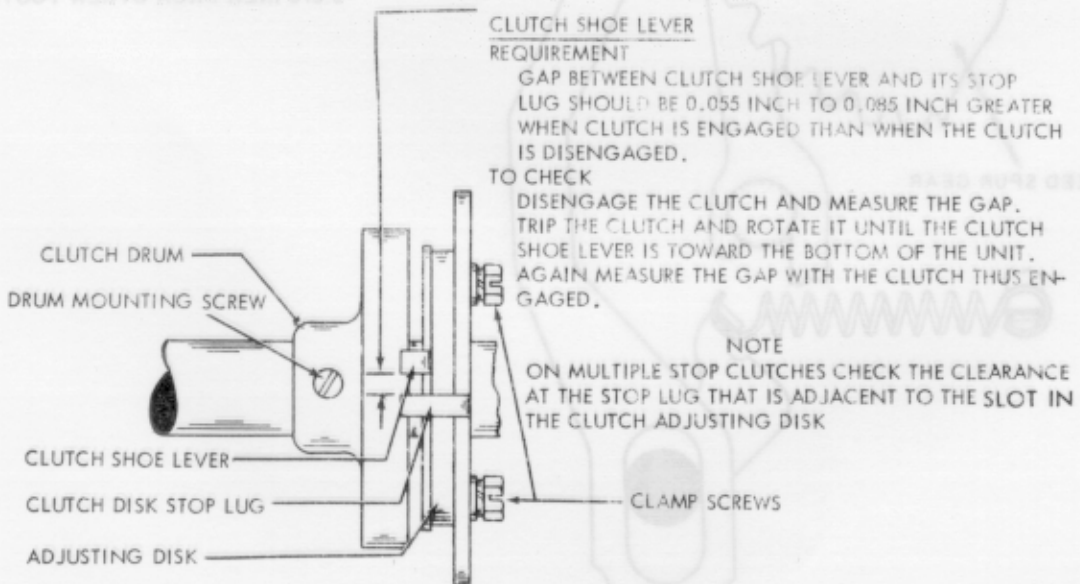
Type 28 - B. S. P. - 573-115-700

Type 35 - B. S. P. - 574-220-700

TYPING UNIT MAIN SHAFT



TYPING UNIT, CLUTCH SHOE MECHANISM (ALL CLUTCHES)



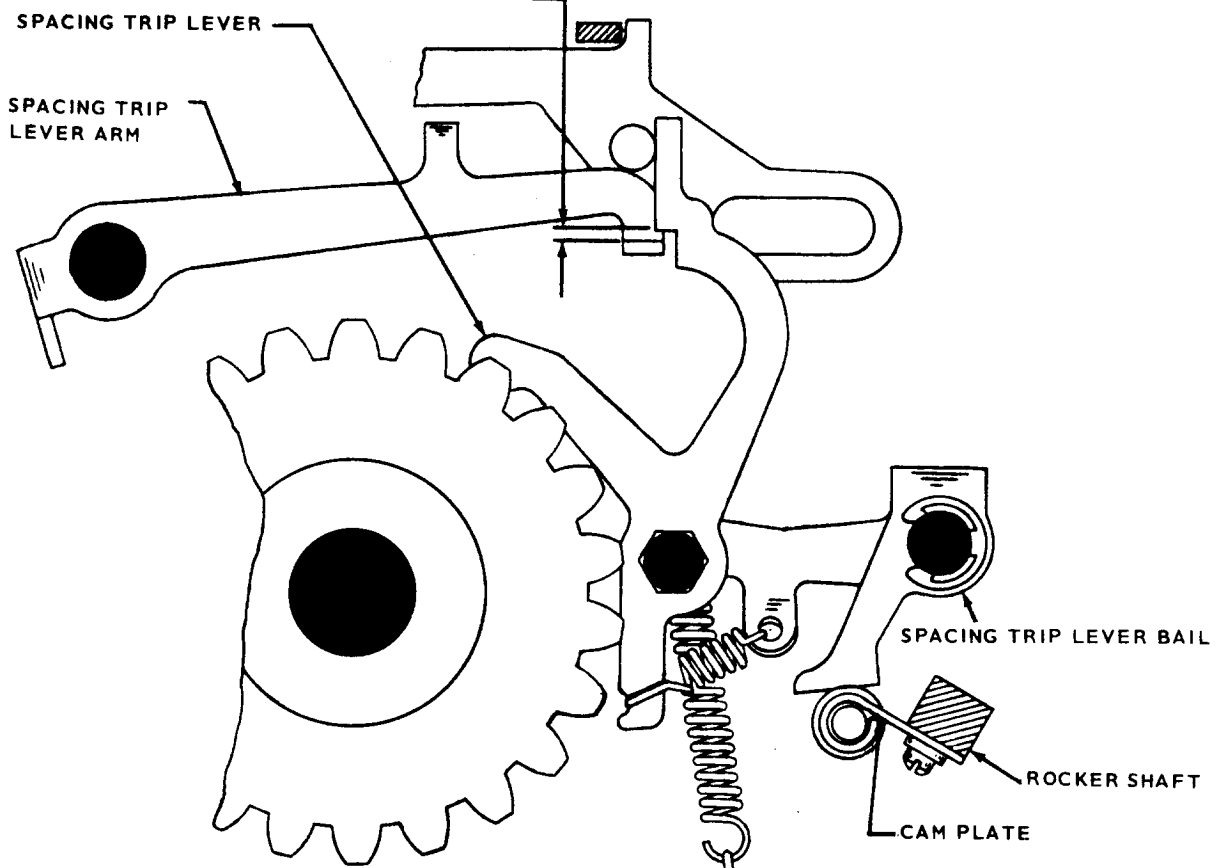
To Adjust:
 Type 28 - B. S. P. 573-115-700
 Type 35 - B. S. P. 574-220-700

TYPING UNIT, SPACING MECHANISM

SPACING TRIP LEVER BAIL CAM PLATEREQUIREMENT

SPACING TRIP LEVER ARM IN UPWARD POSITION. TYPE BOX CLUTCH ROTATED THROUGH APPROXIMATELY ONE-HALF OF ITS CYCLE. ALL FUNCTION PAWLS DISENGAGED FROM FUNCTION BAR. CLEARANCE BETWEEN TOP SURFACE OF TRIP LEVER ARM EXTENSION AND SPACING TRIP LEVER SHOULDER.

MIN. 0.010 INCH
MAX. 0.040 INCH



To Adjust:

Type 28 - B. S. P. - 573-115-700

Type 35 - B. S. P. - 574-220-700

TYPING UNIT, SHIFT CODE BAR OPERATING MECHANISM

28 TYPE ONLY

FIGS - LTRS SHIFT CODE BAR OPERATING MECHANISM

(1) REQUIREMENT

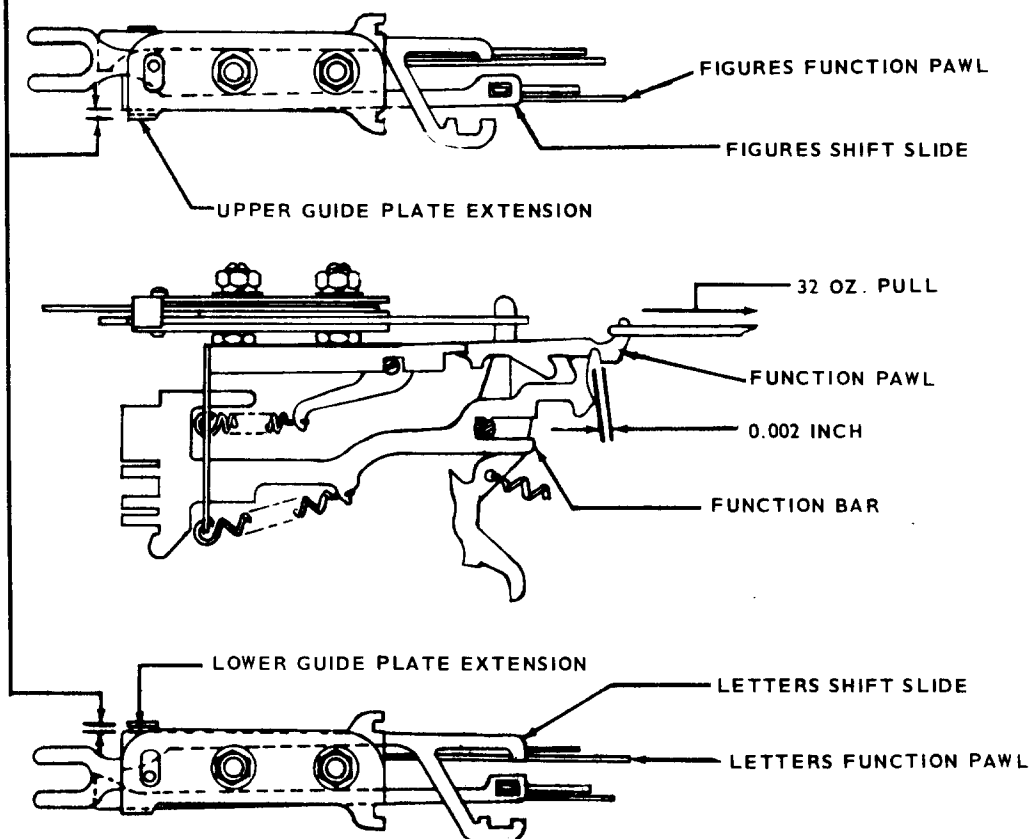
WITH FUNCTION CLUTCH ROTATED UNTIL CLUTCH DISK STOP LUG IS TOWARD BOTTOM OF UNIT. HOOK FIGURES FUNCTION PAWL OVER THE END OF THE FUNCTION BAR. CLEARANCE BETWEEN UPPER GUIDE PLATE EXTENSION AND SHIFT SLIDE. MAX. 0.020 WHEN PLAY IS TAKEN UP FOR MAXIMUM.

(2) REQUIREMENT

WITH 32 OZ. PULL APPLIED TO FUNCTION PAWL THERE SHOULD BE MIN. 0.002 INCH BETWEEN SHOULDER OF FIGURES FUNCTION PAWL AND FACE OF FUNCTION BAR.

(3) REQUIREMENT

REPEAT REQUIREMENT (1) & (2) FOR THE LETTERS FUNCTION PAWL. CHECK MAX. CLEARANCE BETWEEN LOWER GUIDE PLATE EXTENSION AND SHIFT SLIDE. CHECK MIN. CLEARANCE BETWEEN SHOULDER OF LETTER FUNCTION PAWL AND FACE OF FUNCTION BAR.

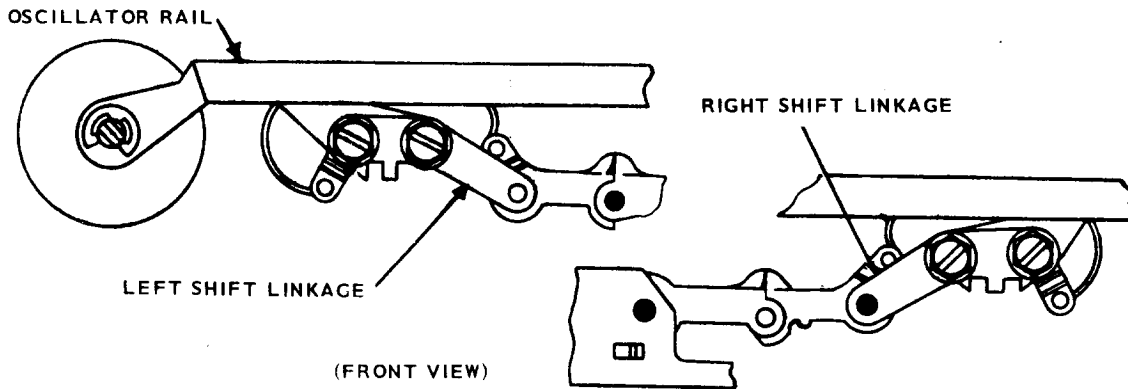
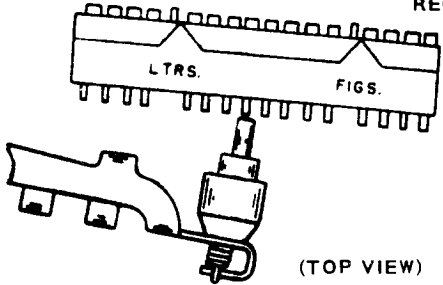


To Adjust:
Type 28 - B. S. P. 573-115-700

28 TYPE ONLY

SHIFT LINKAGE
REQUIREMENT

CARRIAGE NEAR MIDPOINT OF PLATEN. TYPE BOX IN POSITION TO PRINT LETTER "O". MANUALLY BUCKLE RIGHT SHIFT LINKAGE. SHIFT TYPE BOX TO LEFT. FIGURE "9" TYPE PALLET SHOULD BE APPROXIMATELY IN CENTER OF PRINT HAMMER WHEN HAMMER IS JUST TOUCHING "9" TYPE PALLET.

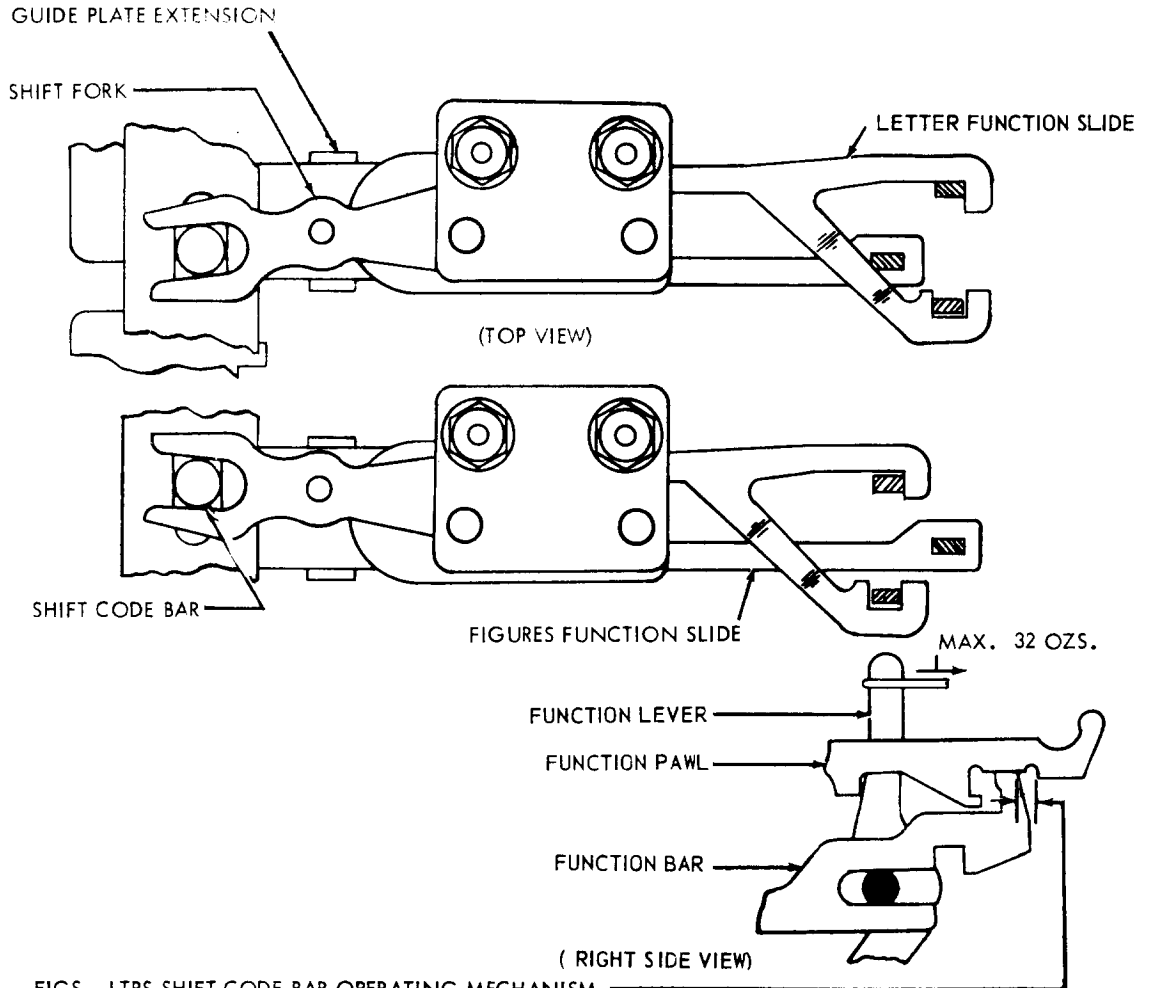


To Adjust:
Type 28 - B. S. P. - 573-115-700

TYPING UNIT, SHIFT MECHANISM

28 TYPE ONLY

NOTE: 1. THIS ADJUSTMENT APPLIES ONLY TO UNITS WITH NON-ADJUSTABLE GUIDE PLATES



FIGS - LTRS SHIFT CODE BAR OPERATING MECHANISM

REQUIREMENT: (FOR TWO STOP FUNCTION CLUTCH)

DISENGAGE FUNCTION CLUTCH AT POSITION GIVING LEAST CLEARANCE. ROTATE TYPE BOX CLUTCH 1/2 REVOLUTION. HOLD FIGURES FUNCTION LEVER IN REARWARD POSITION WITH TENSION OF 32 OZS.

CLEARANCE BETWEEN THE FUNCTION PAWL SHOULDER AND FACE OF FUNCTION BAR

MIN. 0.002 INCH

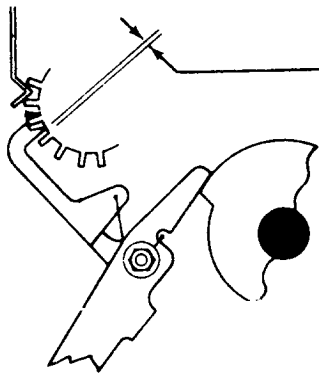
MAX. 0.015 INCH

WHEN PLAY IN PAWL IS TAKEN FOR MAXIMUM CLEARANCE.

DISENGAGE FIGURES FUNCTION PAWL. CHECK LETTERS FUNCTION PAWL IN SAME MANNER.

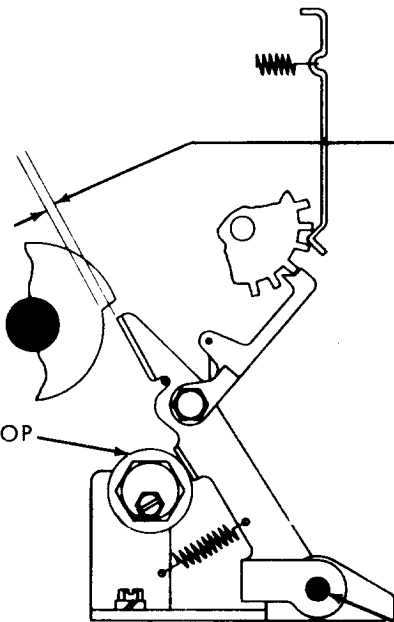
To Adjust:

Type 28 - B. S. P. 573-115-700



FEED PAWL REQUIREMENT

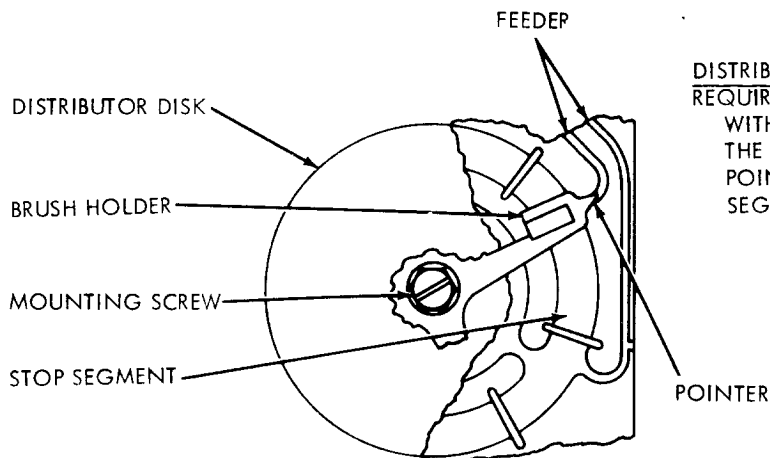
ANSWER-BACK IN STOP POSITION, CLEARANCE BETWEEN FEED PAWL ENGAGING SURFACE AND TOOTH ON CODE DRUM
 MIN. 0.005 INCH
 MAX. 0.015 INCH



ECCENTRIC STOP POSITION REQUIREMENT

WITH FEED BAIL IN LOWEST POSITION OF ITS TRAVEL OPPOSITE LOW PART OF ITS CAM RESTING ON ECCENTRIC STOP, CLEARANCE BETWEEN FEED CAM AND FEED BAIL
 MIN. 0.075 INCH
 MAX. 0.095 INCH

ECCENTRIC STOP



DISTRIBUTOR BRUSH HOLDER REQUIREMENT

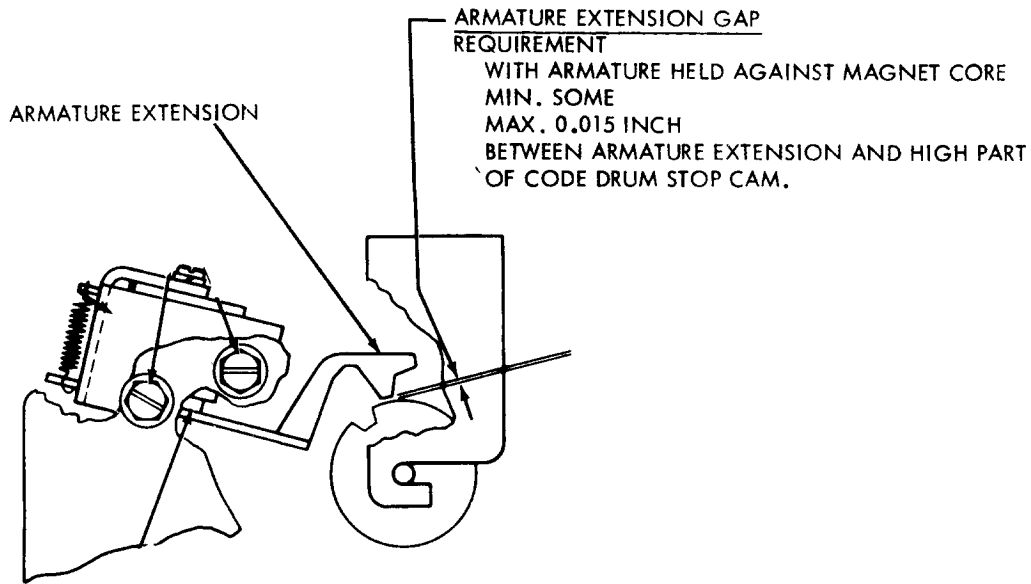
WITH ANSWER-BACK IN STOP POSITION, THE POINTER ON THE BRUSH HOLDER SHOULD POINT TO THE FEEDER OF THE STOP SEGMENT.

CAUTION

DO NOT TURN BRUSH HOLDER COUNTERCLOCKWISE. DAMAGE TO BRUSHES MAY RESULT.

To Adjust:
 35 Type B. S. P. 574-235-700

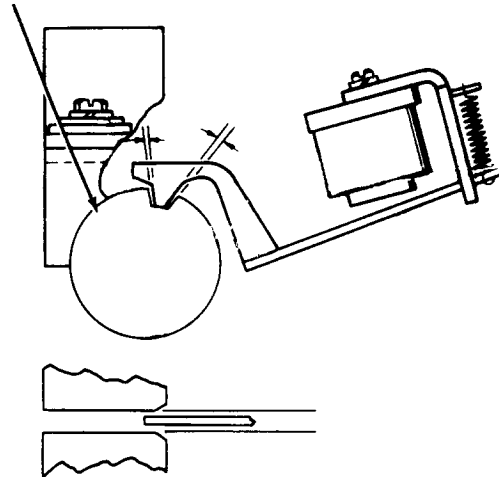
35 ANSWER - BACK ASSEMBLY



CONTACT BLOCK POSITION REQUIREMENT

ANSWER-BACK IN STOP POSITION, THE ARMATURE MUST FALL INTO THE STOP INDENT FREELY WITH SOME CLEARANCE BETWEEN THE EXTENSION AND EACH SIDE OF THE STOP INDENT. THE SIDE TO SIDE PLAY OF THE ARMATURE MUST BE LIMITED BY THE WIDTH OF THE GROOVE IN THE CONTACT BLOCK RATHER THAN THE EDGES OF THE YOKE.

CODE DRUM STOP CAM



CODING ANSWER - BACK DRUM

The drum should be coded as follows:

SUP-CR-LF-RO, and then the 12 character company identification followed by CR-LF-XON. For example,

SUP-CR-LF-RO,

ROBERTSAMES- CR-LF-XON-SUP-SUP

Company City

If the station identifier is less than 12 characters in length, then the remaining positions must be filled up with the SUPPRESSION character.

To Adjust:
35 Type - B. S. P. 574-235-700