

PLATEN HAND WHEEL

TYPE BOX

PRINTING HAMMER

PRINTING SPRING  
ADJUSTING BRACKET

PRINTING CARRIAGE

FRONT PLATE

PAPER RELEASE LEVER

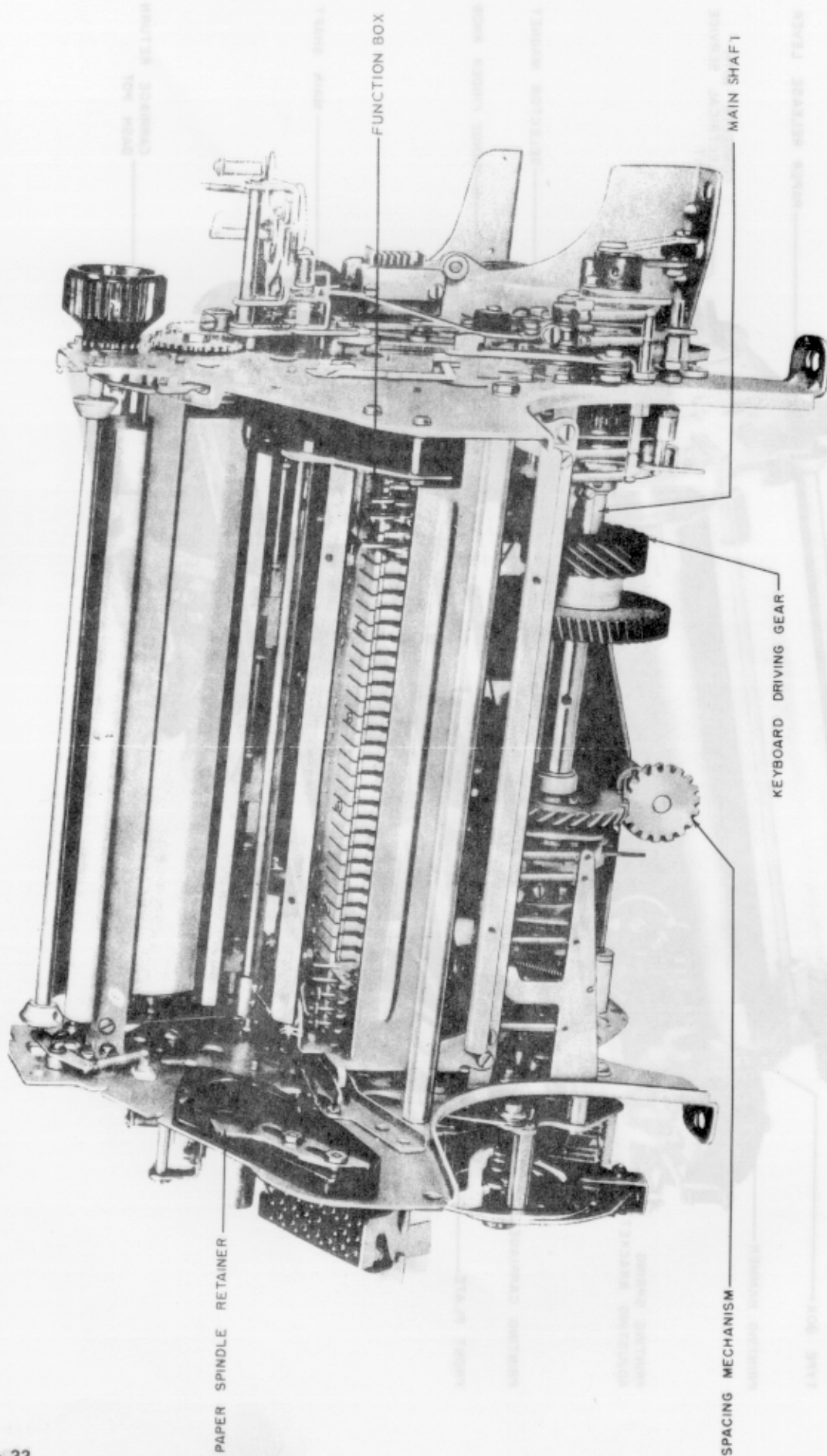
CONNECTS WITH  
ELECTRICAL SERVICE  
UNIT

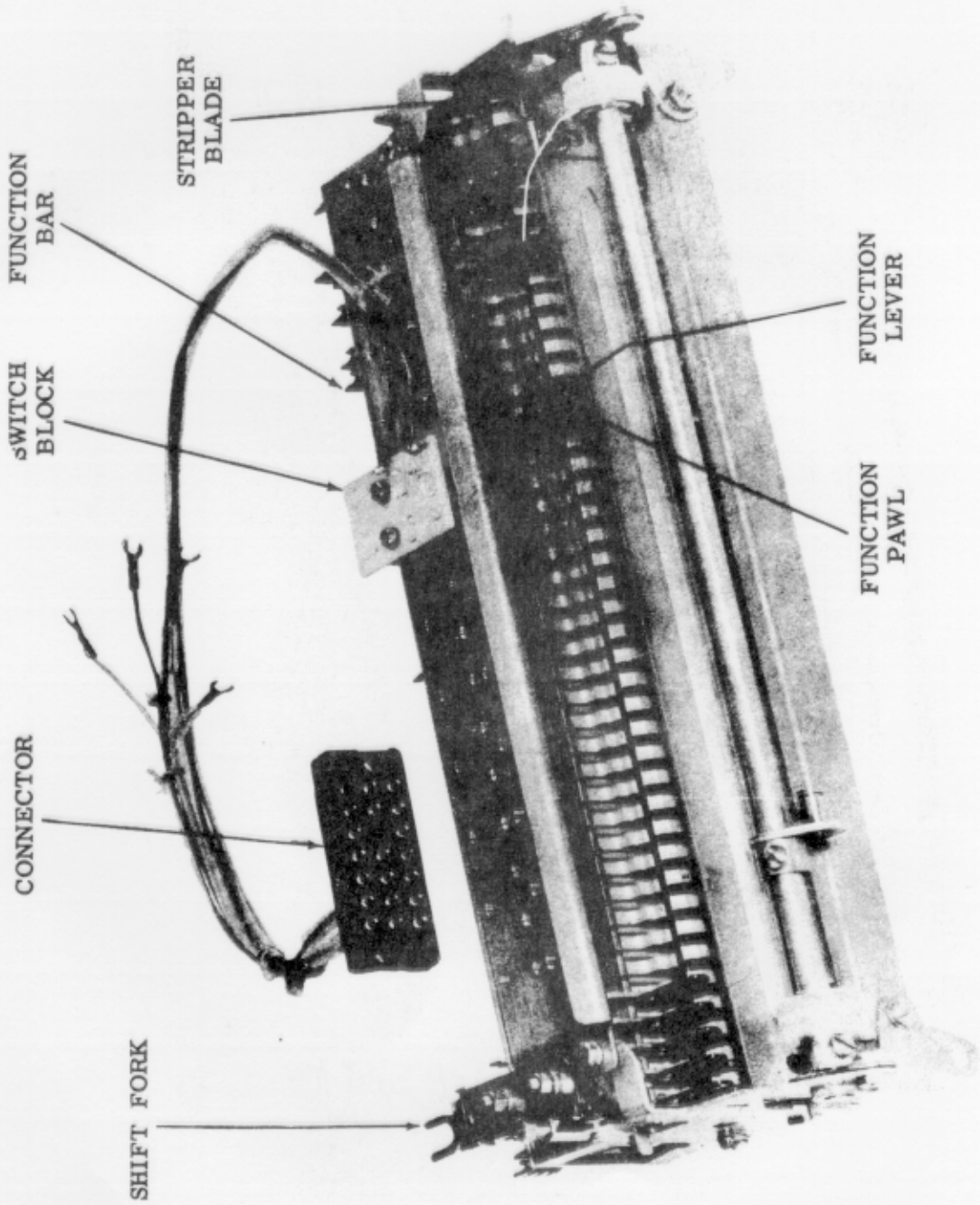
SELECTOR MAGNET

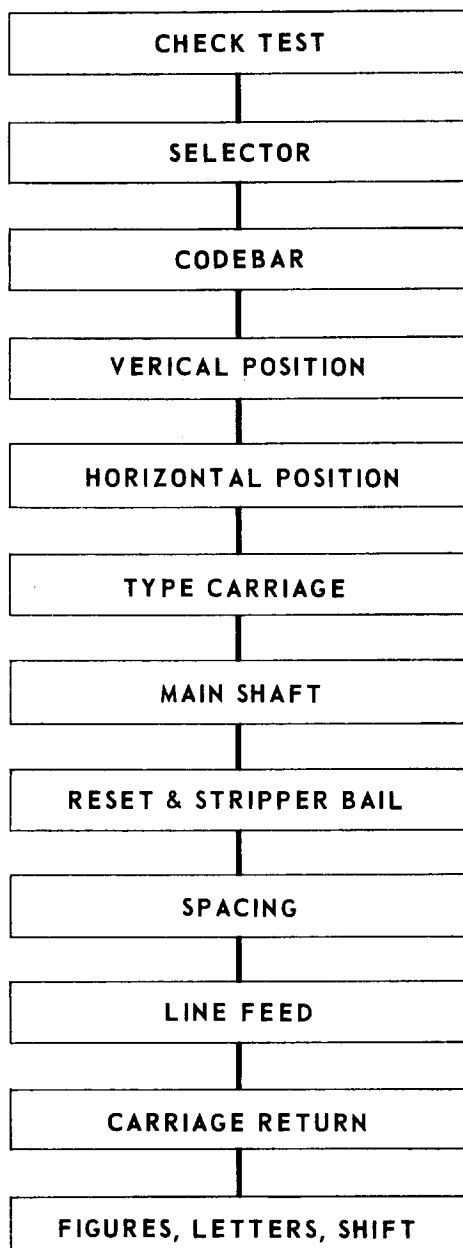
RANGE FINDER KNOB

MAIN SHAFT

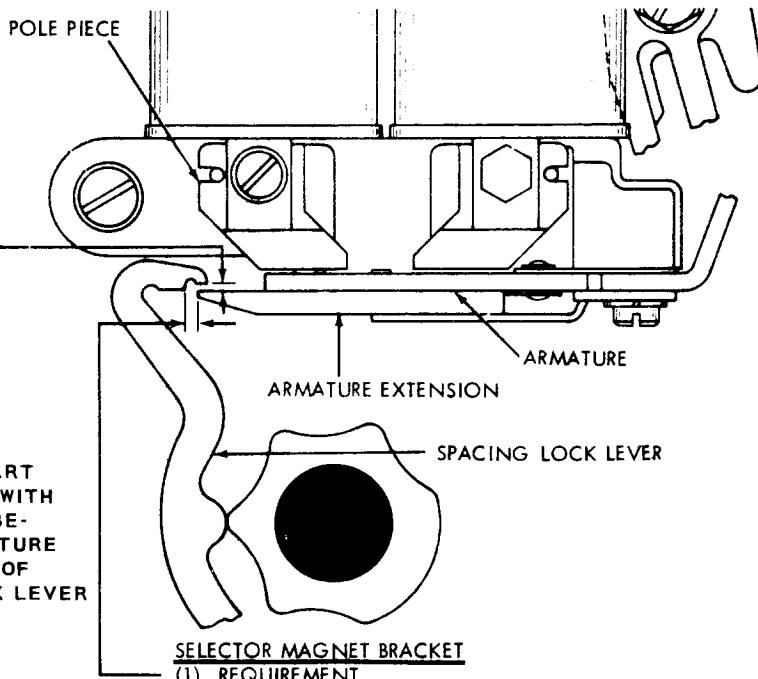
CARRIAGE RETURN  
DASH POT





**28 & 35 TYPING UNIT**

SELECTOR MECHANISM



(2) REQUIREMENT  
 SPACING LOCK LEVER ON HIGH PART OF CAM. ARMATURE IN CONTACT WITH POLE PIECE. SOME CLEARANCE BETWEEN UPPER SURFACE OF ARMATURE EXTENSION AND LOWER SURFACE OF SPACING LOCK LEVER WHEN LOCK LEVER IS HELD DOWNWARD.  
 MAX. 0.003 INCH

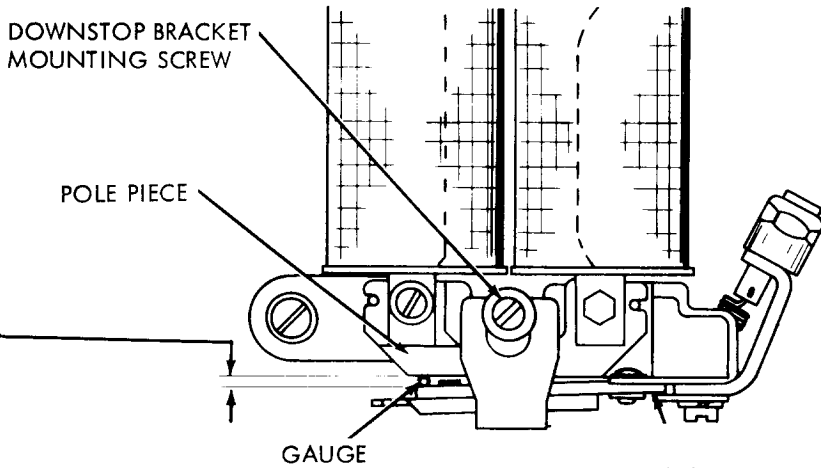
SELECTOR MAGNET BRACKET

(1) REQUIREMENT  
 SPACING LOCK LEVER ON HIGH PART OF CAM. ARMATURE IN CONTACT WITH POLE PIECE. CLEARANCE BETWEEN END OF ARMATURE EXTENSION AND SHOULDER ON SPACING LOCK LEVER.  
 MIN. 0.020 INCH  
 MAX. 0.035 INCH

Type 35 ONLY

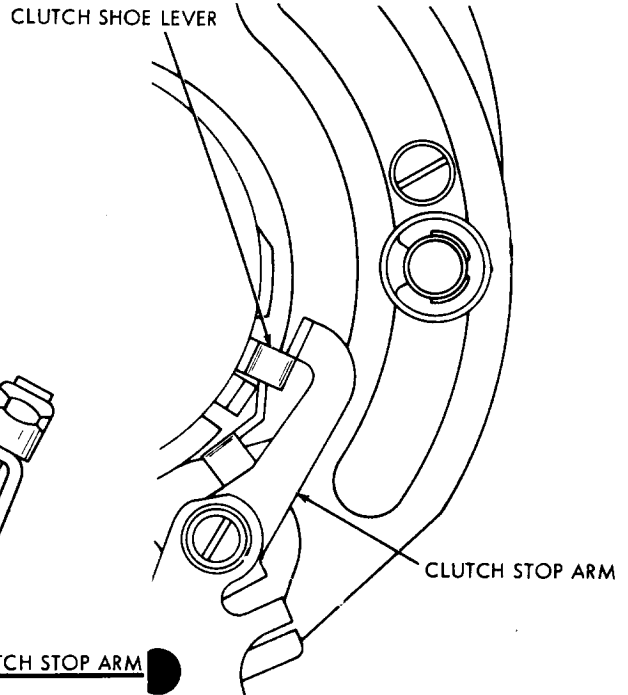
SELECTOR ARMATURE DOWNSTOP

REQUIREMENT  
 — MAGNET DE-ENERGIZED. LOCK LEVERS ON HIGH PART OF CAM. WITH ARMATURE RESTING AGAINST DOWNSTOP  
 MIN. 0.025 INCH --- MAX. 0.030 INCH  
 CLEARANCE BETWEEN END OF ARMATURE AND LEFT EDGE OF LEFT POLE PIECE.



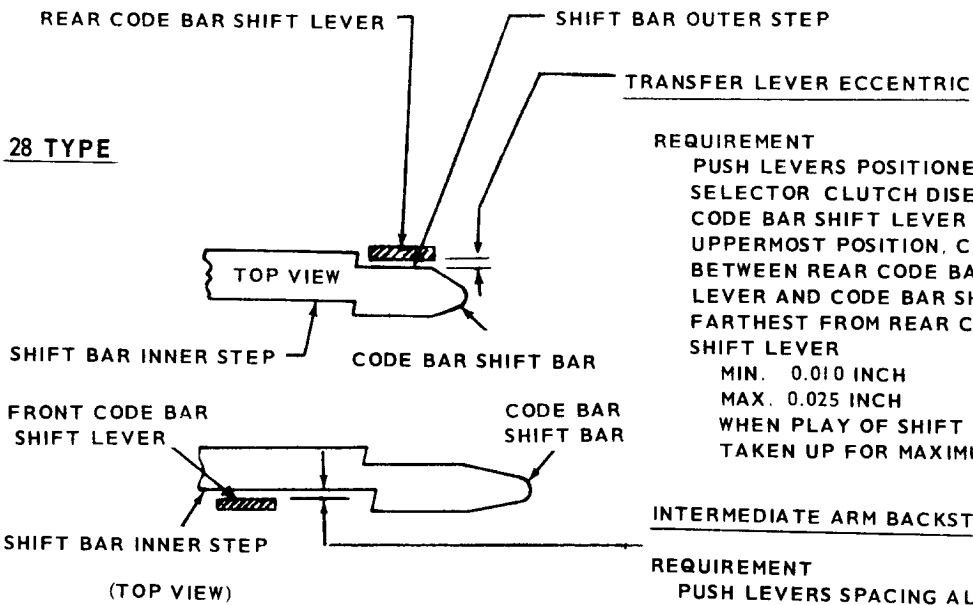
To Adjust:  
 35 Type - B. S. P. 574-220-700  
 28 Type - B. S. P. 573-115-700

SELECTOR CLUTCH



SELECTOR CLUTCH STOP ARM REQUIREMENT

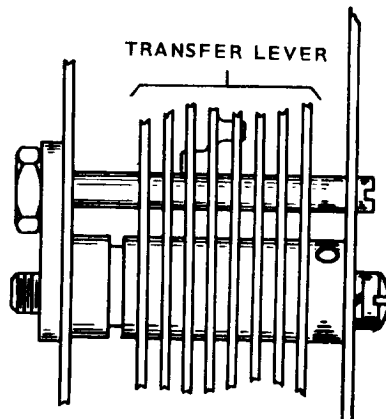
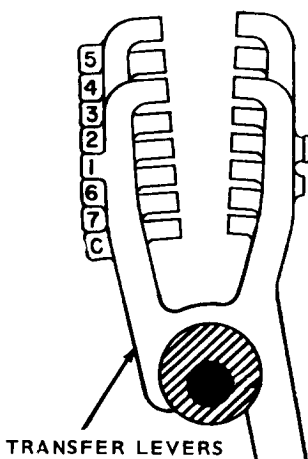
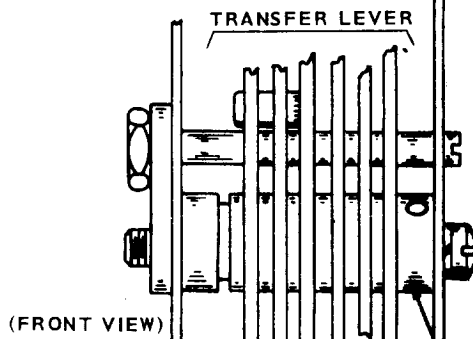
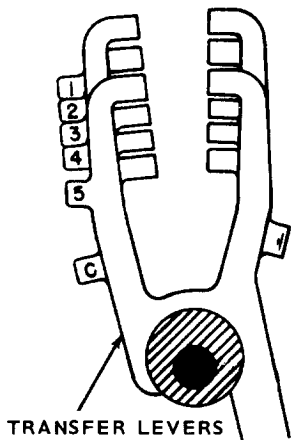
RANGE SCALE SET AT 60. SELECTOR CLUTCH DISENGAGED. ARMATURE IN MARKING POSITION. CLUTCH STOP ARM SHOULD ENGAGE CLUTCH SHOE LEVER BY APPROXIMATELY FULL THICKNESS OF SHOE LEVER.



**REQUIREMENT**  
 PUSH LEVERS POSITIONED FOR MARK.  
 SELECTOR CLUTCH DISENGAGED.  
 CODE BAR SHIFT LEVER LINK IN  
 UPPERMOST POSITION. CLEARANCE  
 BETWEEN REAR CODE BAR SHIFT  
 LEVER AND CODE BAR SHIFT BAR  
 FARTHEST FROM REAR CODE BAR  
 SHIFT LEVER  
 MIN. 0.010 INCH  
 MAX. 0.025 INCH  
 WHEN PLAY OF SHIFT BAR IS  
 TAKEN UP FOR MAXIMUM CLEARANCE

**INTERMEDIATE ARM BACKSTOP BRACKET**

**REQUIREMENT**  
 PUSH LEVERS SPACING ALL CODE  
 BAR SHIFT BARS TO THE RIGHT.  
 SELECTOR CLUTCH DISENGAGED. CODE  
 BAR SHIFT LEVER LINK IN LOWERMOST  
 POSITION. CLEARANCE BETWEEN  
 FRONT CODE BAR SHIFT LEVER AND  
 INNER STEP OF CODE BAR SHIFT  
 BAR FARTHEST FROM FRONT CODE  
 BAR SHIFT LEVER.  
 MIN. 0.010 INCH  
 MAX. 0.025 INCH  
 WHEN PLAY IN PARTS IS TAKEN  
 UP FOR MAXIMUM CLEARANCE.



**NOTE**  
 ONE OR MORE CODEBAR SHIFT  
 BARS CAN TOUCH CODE BAR  
 SHIFT LEVERS.

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

TYPING UNIT, CODE BAR SHIFT MECHANISM

CODE BAR SHIFT LEVER LINK BRACKET

REQUIREMENT

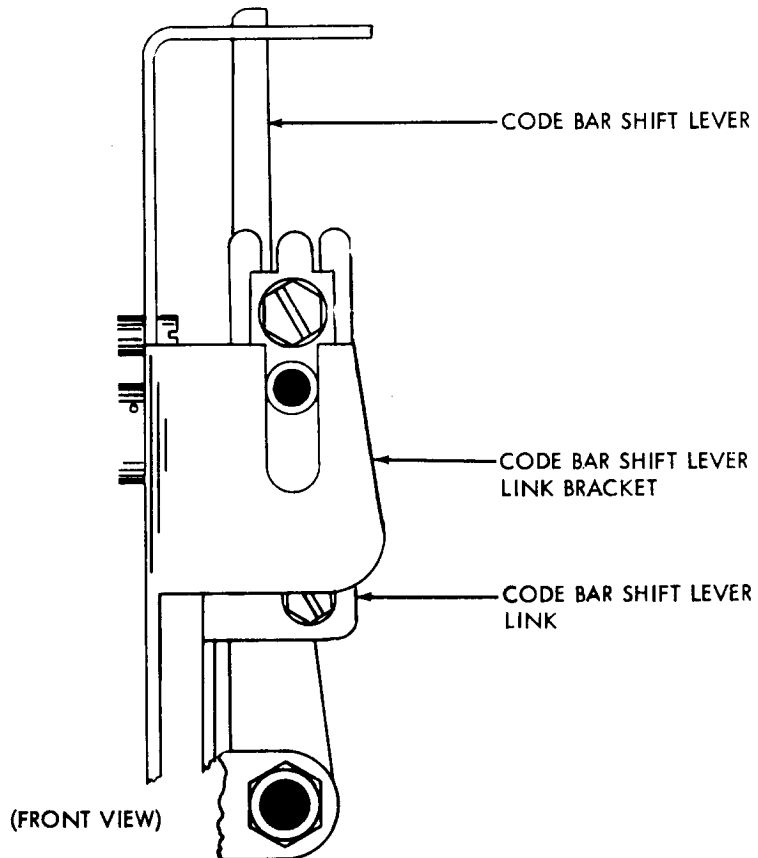
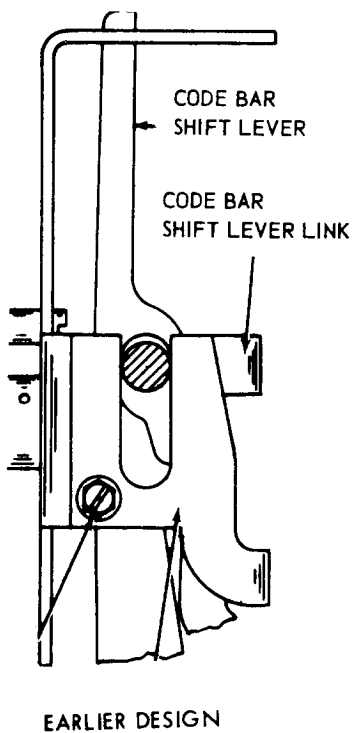
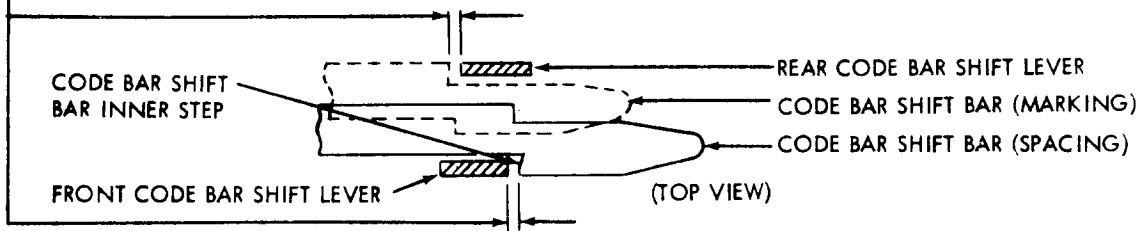
MOTION OF FRONT AND REAR CODE BAR SHIFT LEVERS SHOULD BE EQUALIZED WITH RESPECT TO CODE BAR TRAVEL.

TO CHECK (FRONT)

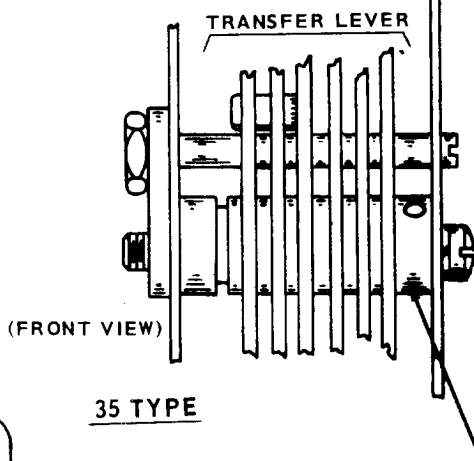
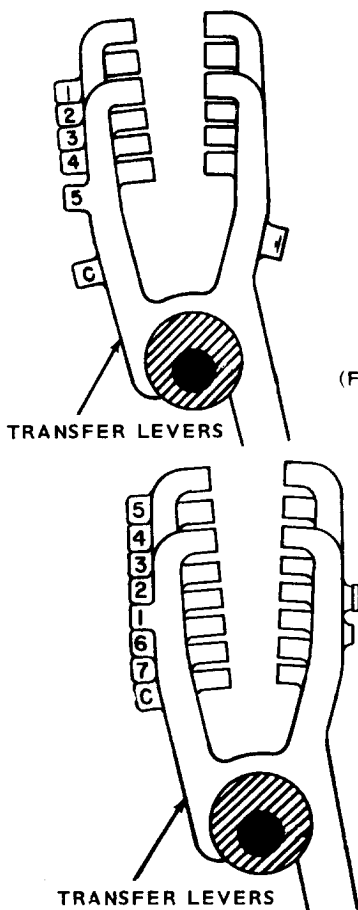
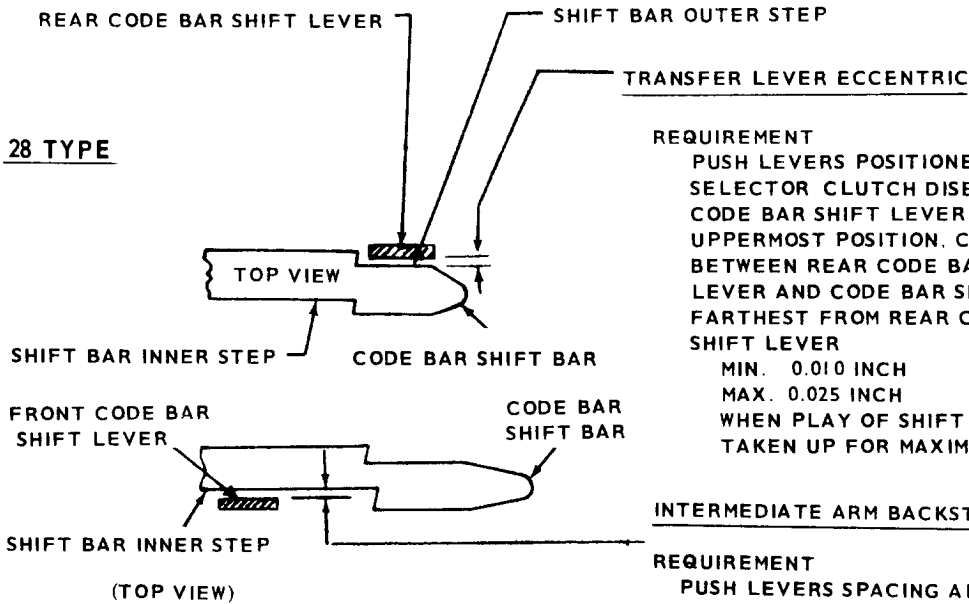
SELECT BLANK COMBINATION AND ROTATE MAINSHAFT UNTIL CODE BAR SHIFT LEVER LINK REACHES HIGHEST TRAVEL. TAKE UP PLAY FOR MAXIMUM CLEARANCE. CLEARANCE BETWEEN FRONT CODE BAR SHIFT LEVER AND SHOULDER ON NEAREST CODE BAR SHIFT BAR  
 MIN. 0.002 INCH  
 MAX. 0.025 INCH

TO CHECK (REAR)

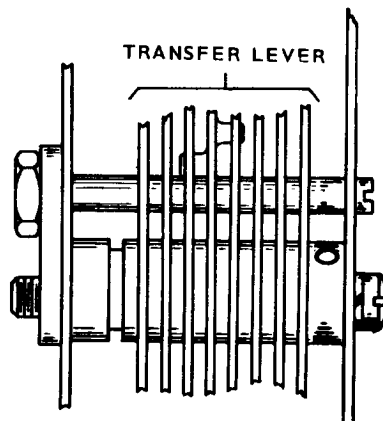
SELECT LETTERS COMBINATION. CHECK CLEARANCE BETWEEN REAR CODE BAR SHIFT LEVER AND SHOULDER ON NEAREST CODE BAR SHIFT BAR IN SAME WAY.  
 MIN. 0.002 INCH  
 MAX. 0.025 INCH



To Adjust  
 Type 28 - 573-115-700  
 Type 35 - 574-220-700



35 TYPE



NOTE  
ONE OR MORE CODEBAR SHIFT  
BARS CAN TOUCH CODE BAR  
SHIFT LEVERS.

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



TYPING UNIT, CODE BAR SHIFT MECHANISM

CODE BAR SHIFT LEVER LINK BRACKET  
REQUIREMENT

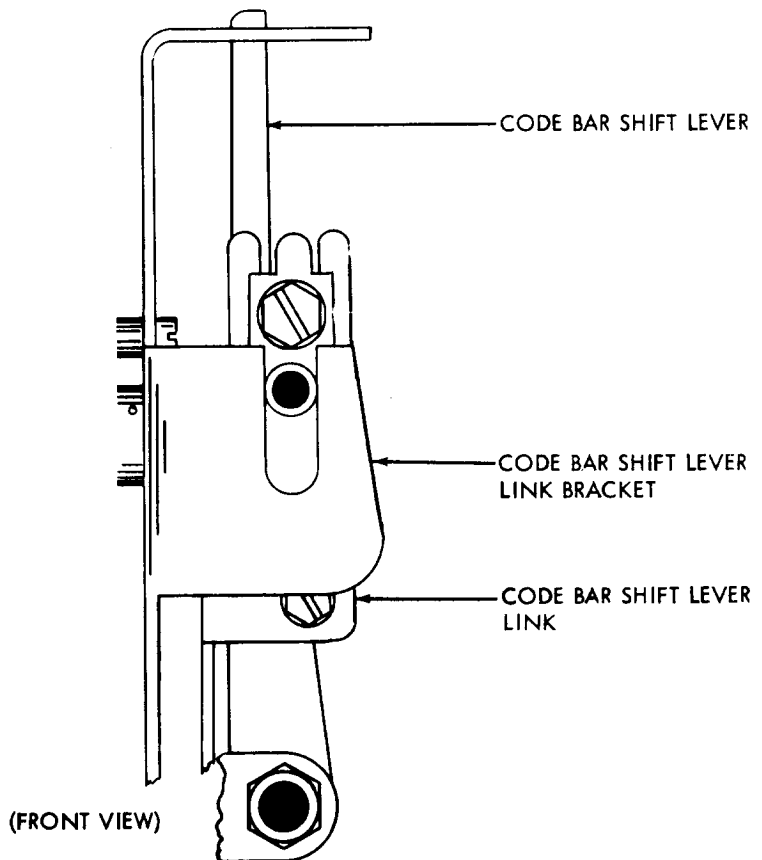
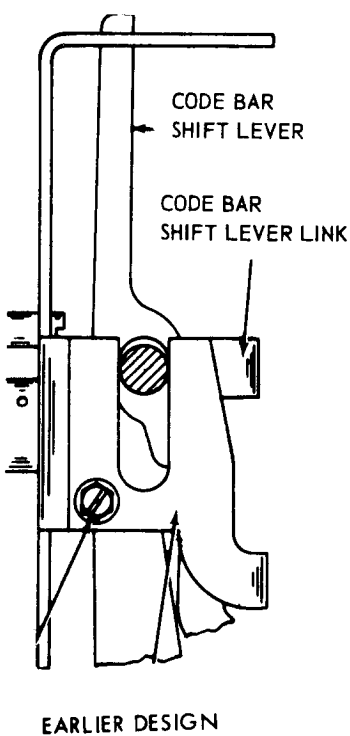
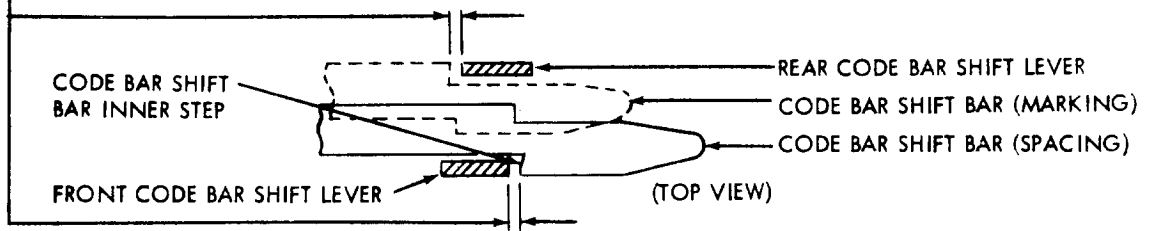
MOTION OF FRONT AND REAR CODE BAR SHIFT LEVERS SHOULD BE EQUALIZED WITH RESPECT TO CODE BAR TRAVEL.

TO CHECK (FRONT)

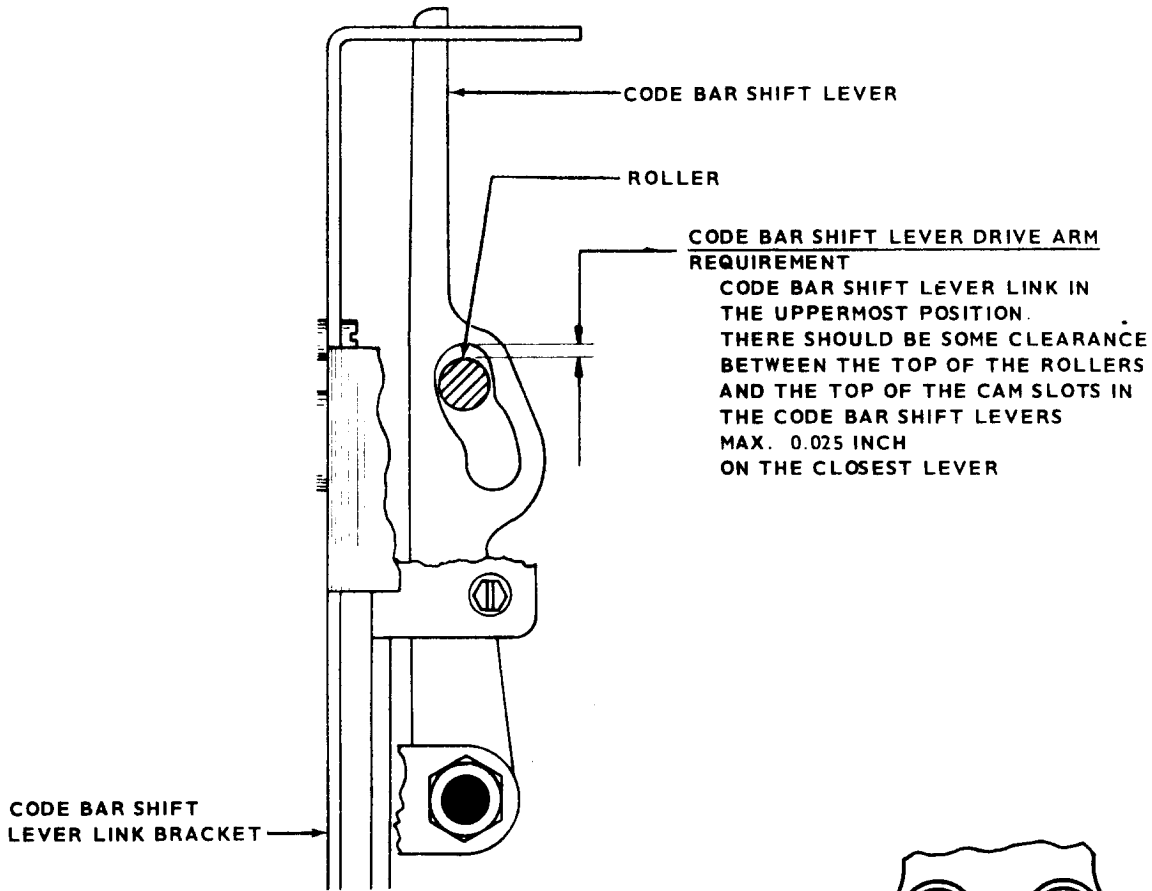
SELECT BLANK COMBINATION AND ROTATE MAINSHAFT UNTIL CODE BAR SHIFT LEVER LINK REACHES HIGHEST TRAVEL. TAKE UP PLAY FOR MAXIMUM CLEARANCE. CLEARANCE BETWEEN FRONT CODE BAR SHIFT LEVER AND SHOULDER ON NEAREST CODE BAR SHIFT BAR  
MIN. 0.002 INCH  
MAX. 0.025 INCH

TO CHECK (REAR)

SELECT LETTERS COMBINATION. CHECK CLEARANCE BETWEEN REAR CODE BAR SHIFT LEVER AND SHOULDER ON NEAREST CODE BAR SHIFT BAR IN SAME WAY.  
MIN. 0.002 INCH  
MAX. 0.025 INCH



To Adjust  
Type 28 - 573-115-700  
Type 35 - 574-220-700

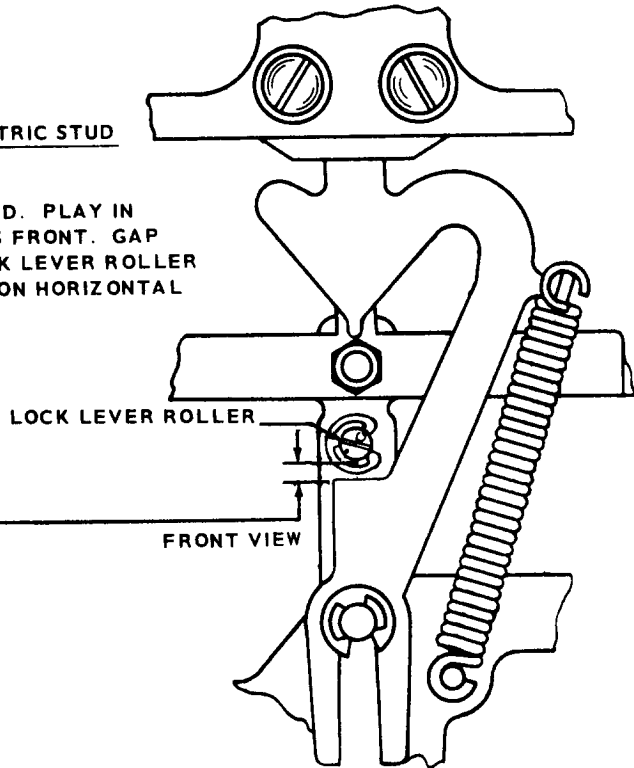


**ROCKER SHAFT BRACKET ECCENTRIC STUD**

**REQUIREMENT**

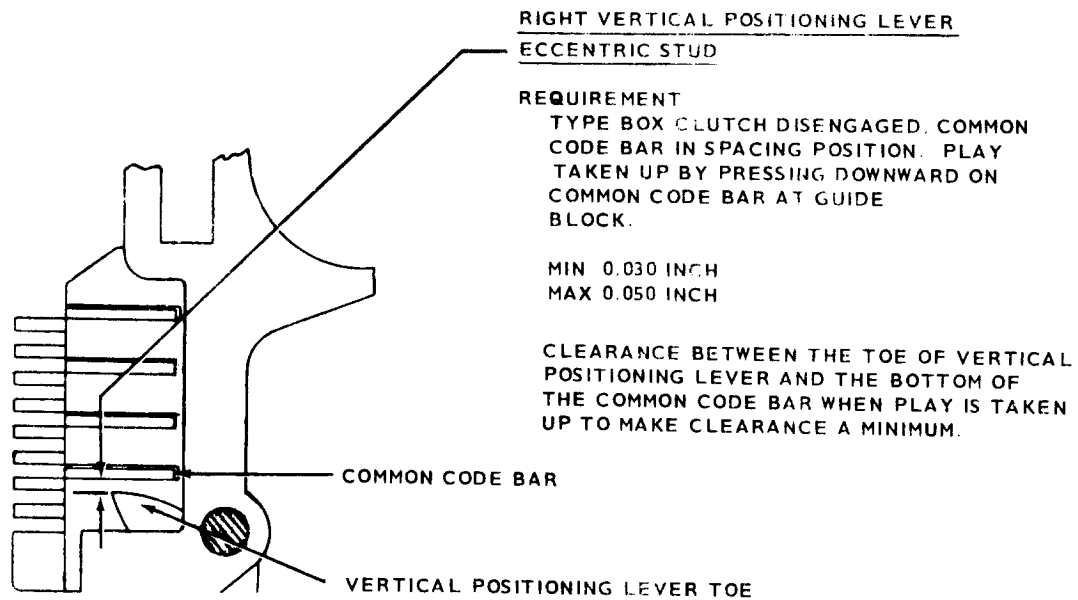
TYPE BOX CLUTCH DISENGAGED. PLAY IN LOCKING ARM TAKEN TOWARDS FRONT. GAP BETWEEN LOWER SIDE OF LOCK LEVER ROLLER AND TOP EDGE OF SHOULDER ON HORIZONTAL POSITIONING LOCK LEVER.

MIN. 0.055 INCH  
 MAX. 0.090 INCH

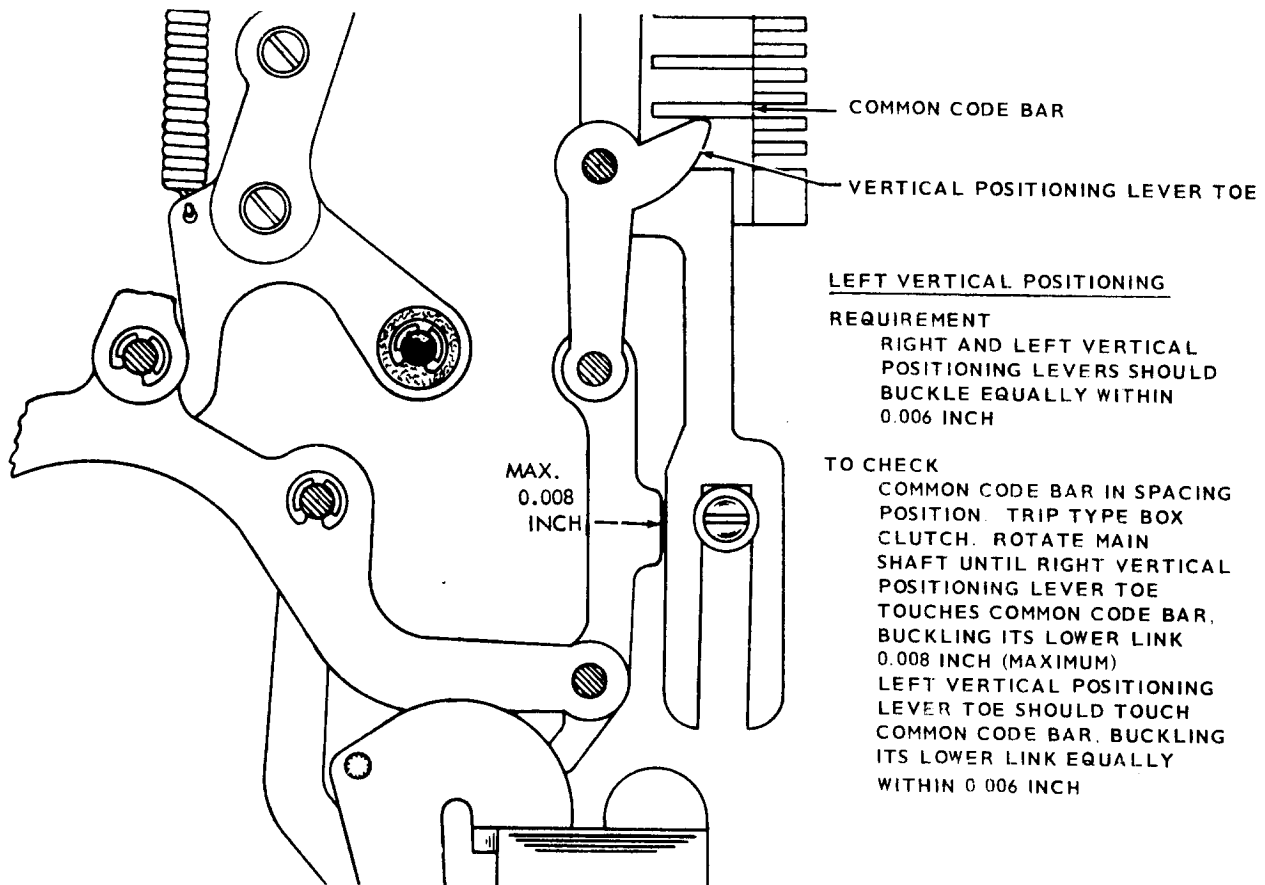


To Adjust:  
 Type 28 - 573-115-700  
 Type 35 - 574-220-700

TYPING UNIT, VERTICAL POSITIONING MECHANISM, RIGHT SIDE

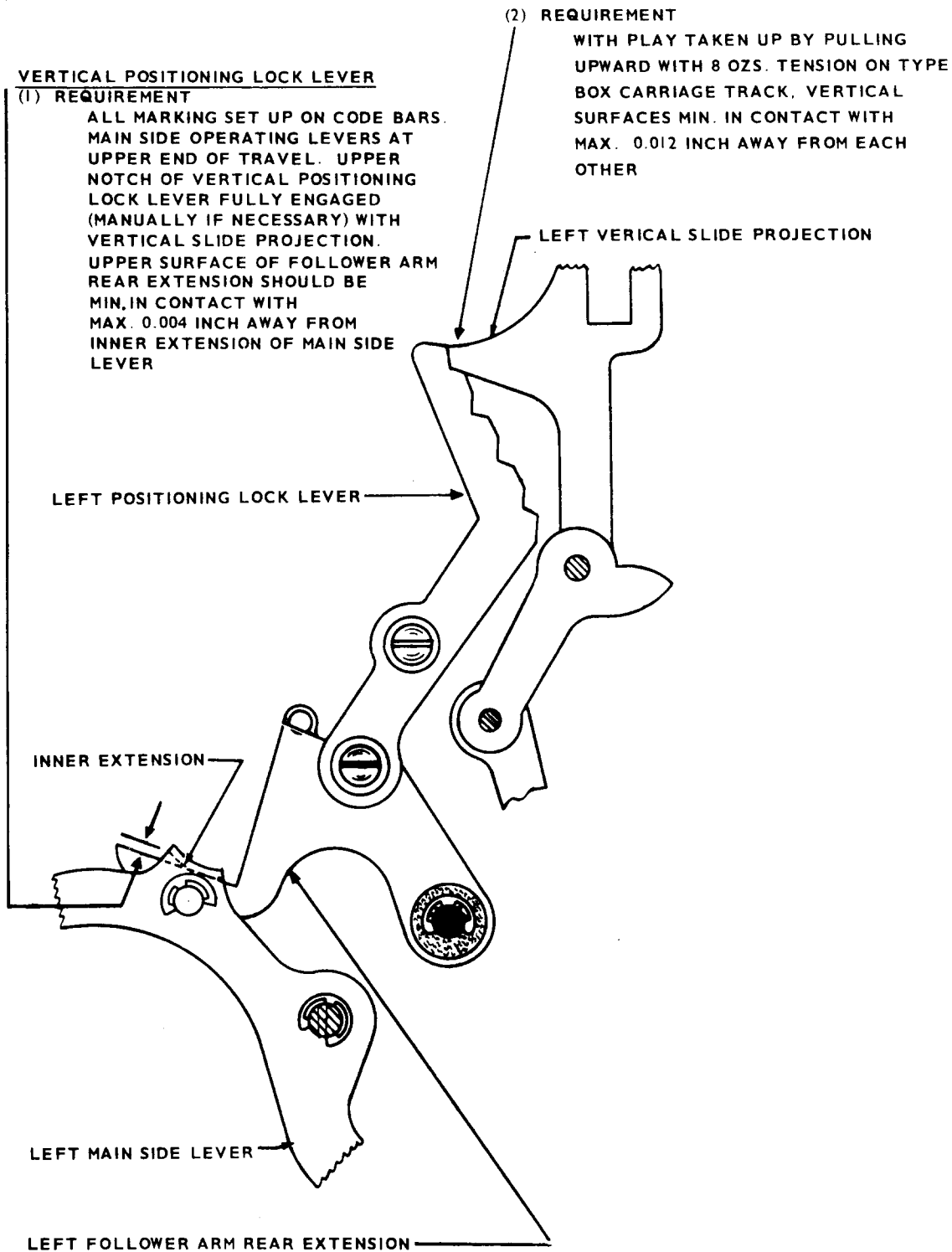


TYPING UNIT, VERTICAL POSITIONING MECHANISM, LEFT SIDE



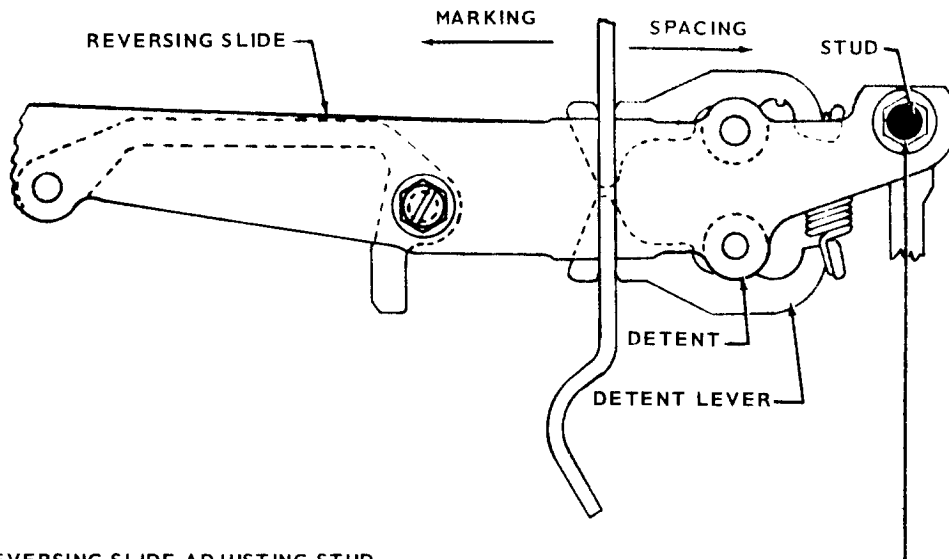
To Adjust:  
Type 28 - 573-115-700  
Type 35 - 574-220-700

BOTH LEFT AND RIGHT SIDE



To Adjust:  
 Type 28 - 573-115-700  
 Type 35-574-220-700

Typing Unit, Horizontal Motion Reversing Mechanism Front View

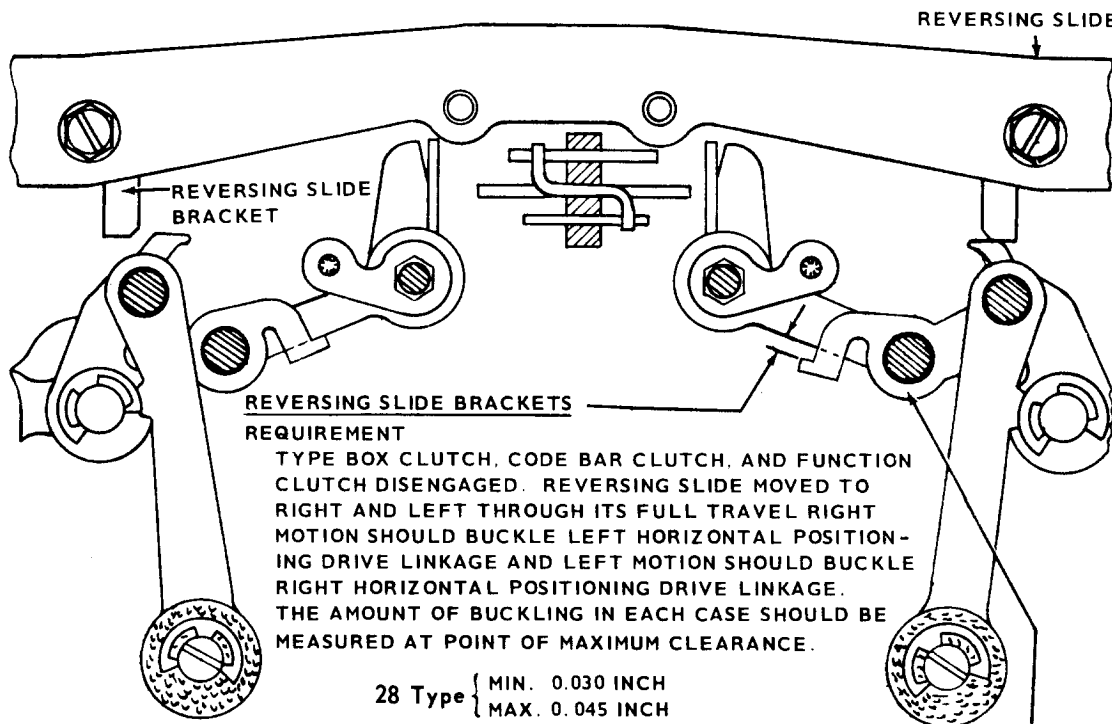


**REVERSING SLIDE ADJUSTING STUD**

**REQUIREMENT**

TYPE BOX CLUTCH DISENGAGED.

WITH NO. 3 CODE BAR IN SPACING POSITION (RIGHT), THE REVERSING SLIDE DETENT ROLLERS SHOULD BE FULLY SEATED IN THE RIGHT-HAND NOTCHES OF THE DETENT LEVER. WITH NO. 3 CODE BAR IN MARKING POSITION (LEFT), THE REVERSING SLIDE DETENT ROLLERS SHOULD BE FULLY SEATED IN THE LEFT-HAND NOTCHES OF THE DETENT LEVER.



**REVERSING SLIDE BRACKETS**

**REQUIREMENT**

TYPE BOX CLUTCH, CODE BAR CLUTCH, AND FUNCTION CLUTCH DISENGAGED. REVERSING SLIDE MOVED TO RIGHT AND LEFT THROUGH ITS FULL TRAVEL RIGHT MOTION SHOULD BUCKLE LEFT HORIZONTAL POSITIONING DRIVE LINKAGE AND LEFT MOTION SHOULD BUCKLE RIGHT HORIZONTAL POSITIONING DRIVE LINKAGE. THE AMOUNT OF BUCKLING IN EACH CASE SHOULD BE MEASURED AT POINT OF MAXIMUM CLEARANCE.

28 Type { MIN. 0.030 INCH  
MAX. 0.045 INCH

35 Type { MIN. 0.030 INCH  
MAX. 0.050 INCH

RIGHT HORIZONTAL POSITIONING DRIVE LINKAGE

To Adjust:

Type 28 - 573-115-700

Type 35 - 574-220-700

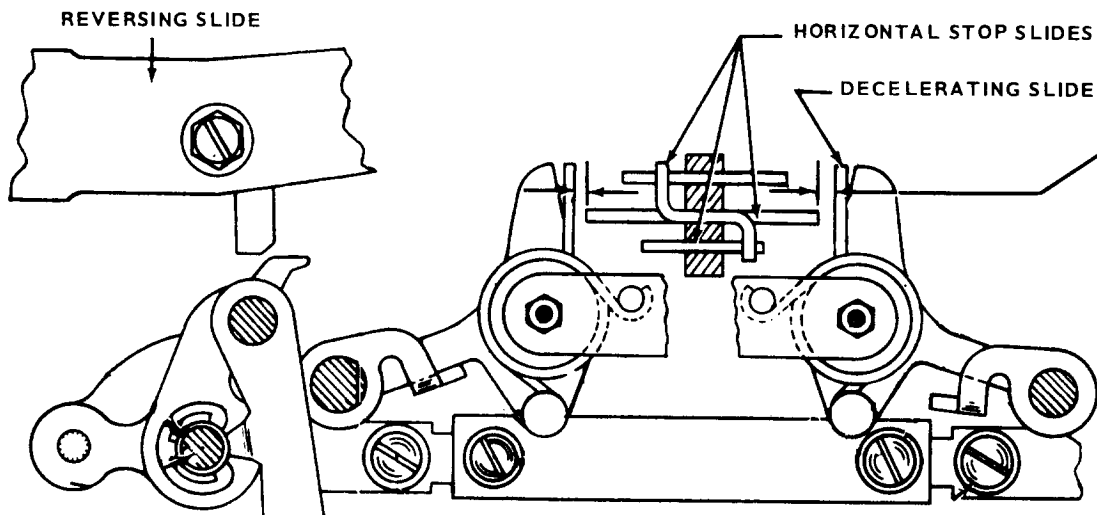
## TYPING UNIT, HORIZONTAL POSITIONING DRIVE MECHANISM, FRONT VIEW

HORIZONTAL POSITIONING DRIVE LINKAGEREQUIREMENT

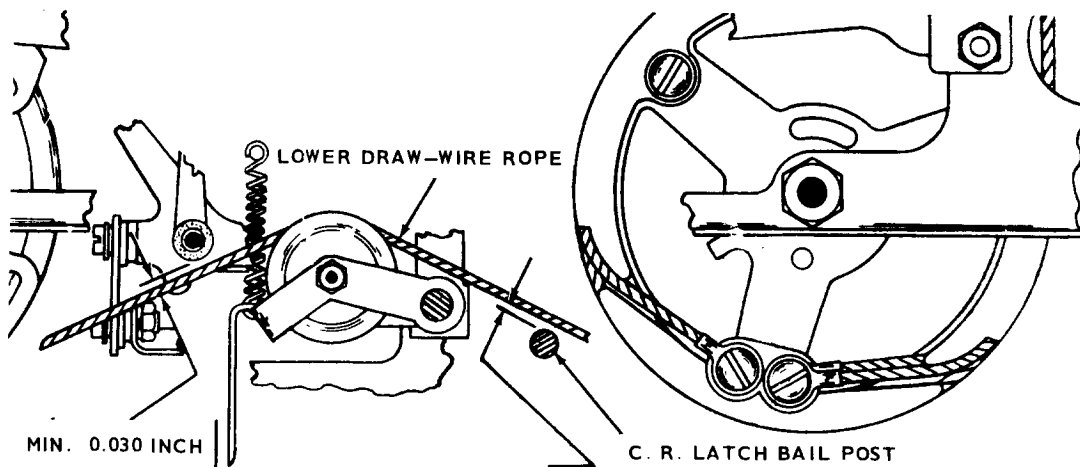
TYPE BOX CLUTCH DISENGAGED.

CODE BARS IN SPACING (RIGHT).

CLEARANCE BETWEEN EACH SIDE OF CENTER HORIZONTAL STOP SLIDE AND DECELERATING SLIDES, ON SIDE WHERE KNEE LINK IS STRAIGHT SHOULD BE EQUAL (WITHIN 0.008 INCH)

MIN. 0.015 INCH } ← 28 Type  
MAX. 0.040 INCH }MIN. 0.090 INCH } ← 35 Type  
MAX. 0.110 INCH }

CHECK THE LINKAGE FOR FREENESS THROUGHOUT A COMPLETE CYCLE. THE TYPE BOX CLUTCH DISK SHOULD HAVE SOME MOVEMENT IN THE NORMAL DIRECTION OF ROTATION IN THE STOP POSITION.

CARRIAGE DRAW-WIRE ROPEREQUIREMENT

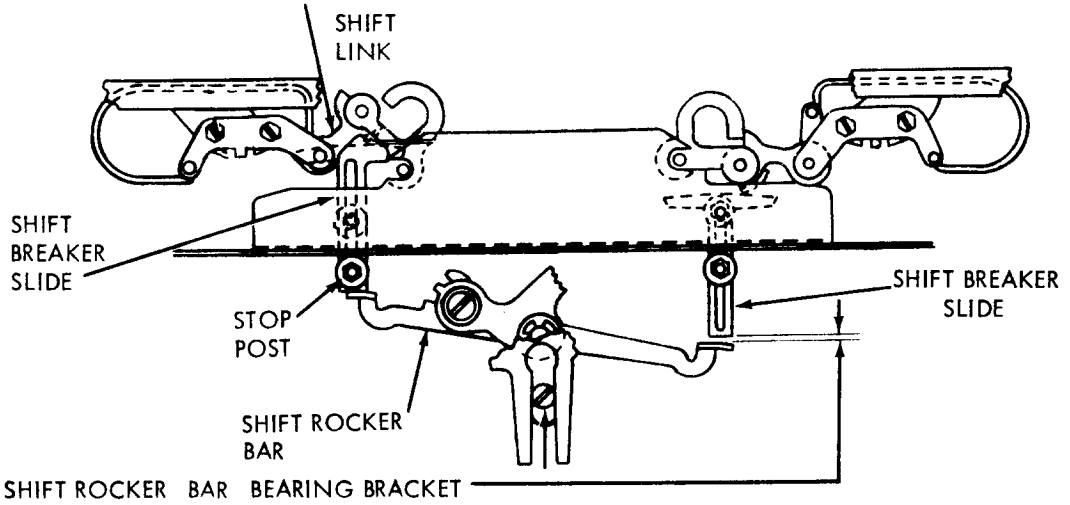
CLEARANCE BETWEEN LOWER DRAW WIRE ROPE AND CARRIAGE RETURN LATCH BAIL POST SHOULD BE AT LEAST 0.006 INCH. WITH THE HORIZONTAL POSITIONING MECHANISM IN ITS LOWEST POSITION, CLEARANCE BETWEEN THE LOWER DRAW WIRE ROPE AND THE LEFT HORIZONTAL POSITIONING DRIVE LINKAGE SHOULD BE MIN. 0.030 INCH.

To Adjust:

Type 28 - 573-115-700

Type 35 - 574-220-700

**HORIZONTAL POSITIONING DRIVE MECHANISM  
35 TYPE ONLY**



CODE BAR AND TYPE BOX CLUTCHES DISENGAGED. CLEARANCE BETWEEN SHIFT ROCKER BAR AND LOWER END OF LEFT SHIFT BREAKER SLIDE  
MIN. 0.050 INCH  
MAX. 0.070 INCH

CHECK RIGHT SIDE IN SIMILAR MANNER.

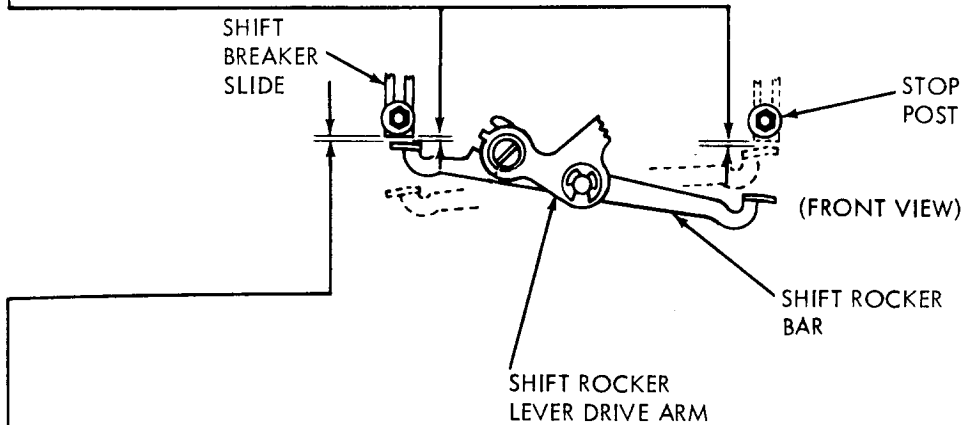
**TO CHECK**

RAISE RIGHT END OF SHIFT ROCKER BAR TO UPPERMOST POSITION, HOLDING RIGHT SHIFT BREAKER SLIDE AGAINST STOP. MAKE SURE LEFT SHIFT LINK IS STRAIGHT, AND HOLD LEFT SHIFT BREAKER SLIDE AGAINST SHIFT LINK PAD.

SHIFT ROCKER LEVER

REQUIREMENT

WITH ALTERNATE LEFT AND RIGHT SHIFT SELECTION MADE, AND BAIL-ARM ASSEMBLY ROLLER ON HIGH PART OF CAM. CLEARANCE BETWEEN RAISED END OF SHIFT ROCKER BAR AND LOWER END OF ASSOCIATED SHIFT BREAKER SLIDE, WHEN SLIDE IS HELD AGAINST STOP, SHOULD BE EQUAL WITHIN 0.010 INCH WITH CLEARANCE ON OPPOSITE SIDE WHEN THAT SIDE IS SELECTED.



SHIFT DRIVE PAWL OPERATING BAIL

REQUIREMENT

WITH SHIFT DRIVE PAWL OPERATING BAIL CAM FOLLOWER ON HIGH DWELL OF CAM, CLEARANCE BETWEEN SHIFT ROCKER BAR AND LOWER END OF RAISED SHIFT BREAKER SLIDE

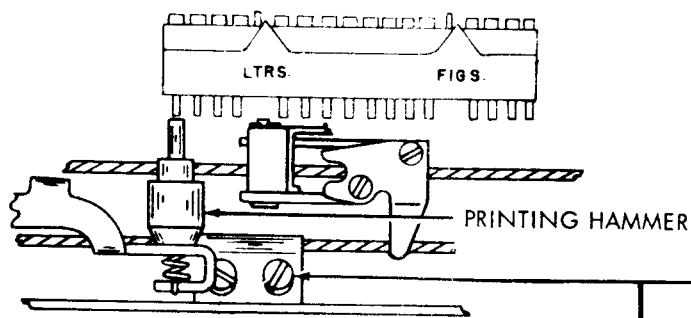
MIN. SOME

MAX. 0.015 INCH

WHEN SLIDE IS HELD AGAINST STOP.

**To Adjust:**  
**Type 35 - B. S. P. 574-220-700**

TYPING UNIT, PRINTING CARRIAGE



**PRINTING CARRIAGE POSITION 28 TYPE ONLY REQUIREMENT**

TYPE BOX IN LETTERS POSITION. M TYPE PALLET SELECTED. TYPE BOX IN PRINTING POSITION. M TYPE PALLET SHOULD BE APPROXIMATELY IN CENTER OF PRINTING HAMMER WHEN HAMMER IS JUST TOUCHING M TYPE PALLET. TAKE UP PLAY IN TYPE BOX CARRIAGE IN EACH DIRECTION AND SET HAMMER IN CENTER OF PLAY.

**35 TYPE ONLY**

**PRINTING HAMMER STOP BRACKET REQUIREMENT**

PRINTING HAMMER IN UPPER LEFT TYPE BOX POSITION. PRINTING TRACK IN ITS MAXIMUM DOWNWARD POSITION. PRINTING HAMMER STOP BRACKET HELD TOWARD THE PLATEN WITH 8 OZS. OF PRESSURE. CLEARANCE BETWEEN PRINTING HAMMER AND UPPER LEFT TYPE PALLET

MIN. 0.005 INCH  
MAX. 0.035 INCH  
CHECK AT BOTH ENDS OF PLATEN.

**PRINTING CARRIAGE POSITION 35 TYPE ONLY REQUIREMENT**

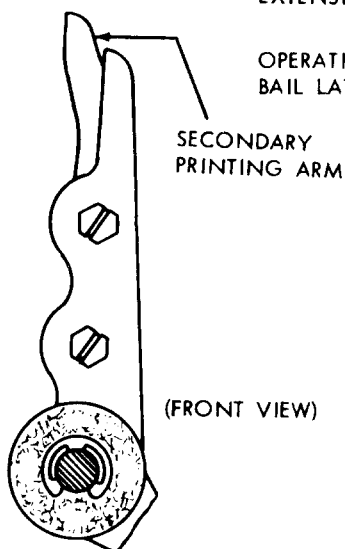
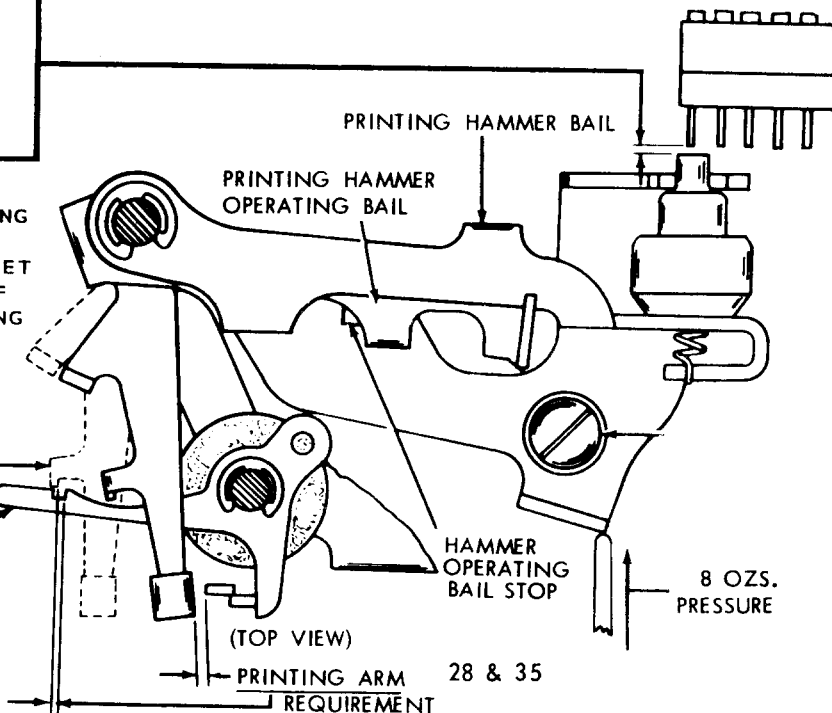
TYPE BOX IN LTRS. POSITION AND PRINTING CARRIAGE AT APPROXIMATE MID-POINT OF TRACK. SET UP COMBINATION TO POSITION PRINT HAMMER IN UPPER LEFT CORNER OF TYPE BOX. ROTATE PRINTER SHAFT SO TYPE BOX IS IN PRINTING POSITION. PROPER TYPE PALLET SHOULD BE APPROXIMATELY IN CENTER OF PRINTING HAMMER AND JUST TOUCHING TYPE PALLET.

**28 TYPE ONLY**

**PRINTING HAMMER STOP BRACKET REQUIREMENT**

TYPE BOX IN POSITION TO PRINT M PRINTING TRACK IN ITS MAXIMUM DOWNWARD POSITION. PRINTING HAMMER STOP BRACKET HELD TOWARD THE PLATEN WITH 8 OZS. OF PRESSURE. CLEARANCE BETWEEN PRINTING HAMMER AND M TYPE PALLET

MIN. 0.005 INCH  
MAX. 0.035 INCH  
CHECK AT BOTH ENDS OF PLATEN.



**PRINTING ARM 28 & 35 REQUIREMENT**  
PRINTING TRACK IN MAXIMUM DOWNWARD POSITION.  
PRINTING HAMMER OPERATING BAIL AGAINST ITS STOP.  
SOME CLEARANCE BETWEEN SECONDARY PRINTING ARM AND FORWARD EXTENSION OF HAMMER OPERATING BAIL.  
MAX. 0.015 INCH  
WHEN PRINTING ARM SLIDE IS HELD DOWNWARD OVER EACH PRINTING TRACK MOUNTING SCREW FOR MAXIMUM CLEARANCE.  
**REQUIREMENT**  
PRINTING TRACK IN UPPERMOST POSITION. LATCHING EXTENSION OF PRINTING HAMMER OPERATING BAIL SHOULD OVERTRAVEL LATCHING SURFACE OF OPERATING BAIL LATCH BY MIN. 0.006 INCH  
CHECK RIGHT AND LEFT POSITIONS

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



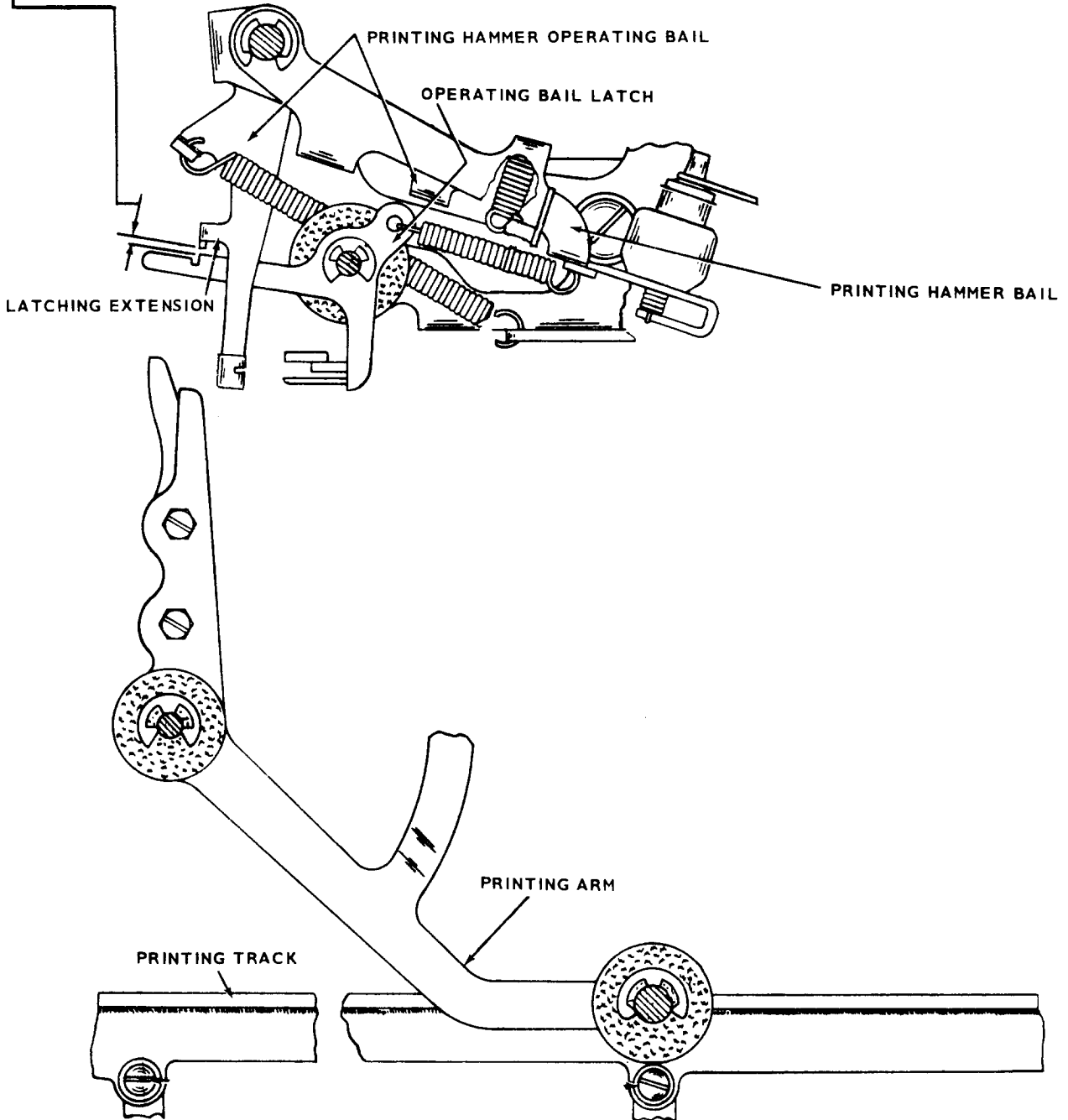
## TYPING UNIT, PRINTING MECHANISM

**PRINTING TRACK****REQUIREMENT**

PRINTING TRACK IN ITS EXTREME DOWNWARD POSITION. BLANK SELECTION PRINTING HAMMER OPERATING BAIL LATCHING EXTENSION HELD WITH LEFT FACE IN LINE WITH THE LATCH SHOULDER. PRINTING ARM SLIDE POSITIONED ALTERNATELY OVER EACH TRACK MOUNTING SCREW. PRINTING BAIL RESET EACH TIME. CLEARANCE BETWEEN LATCHING EXTENSION AND OPERATING BAIL LATCH SHOULD BE

MIN. 0.015 INCH

MAX. 0.040 INCH



To Adjust:

Type 28 - 573-115-700

Type 35 - 574-220-700