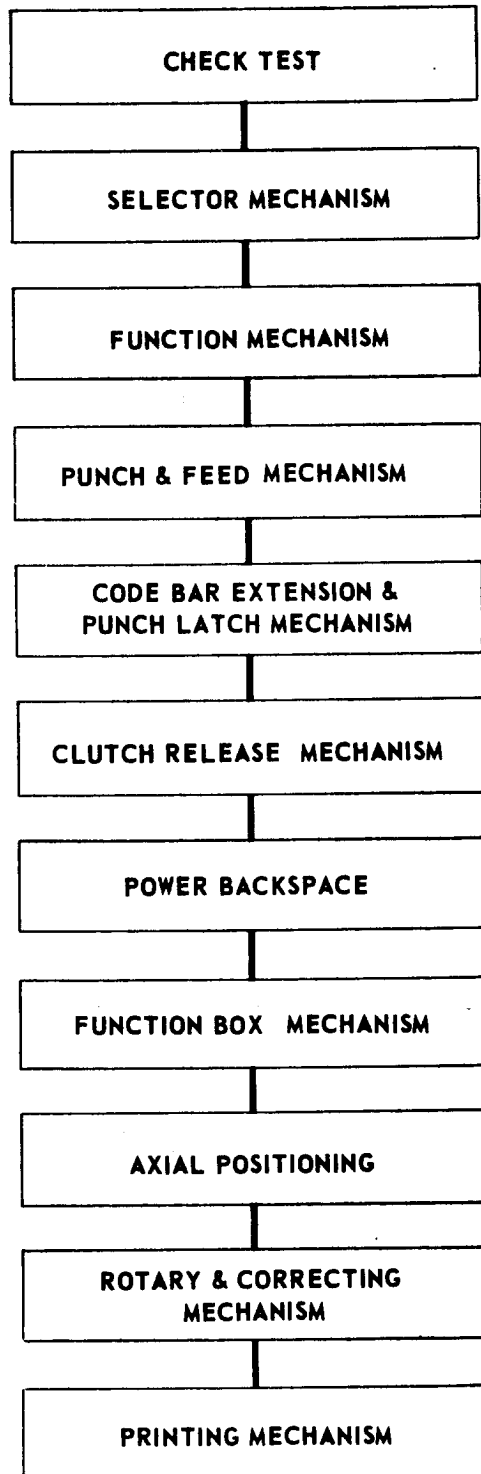
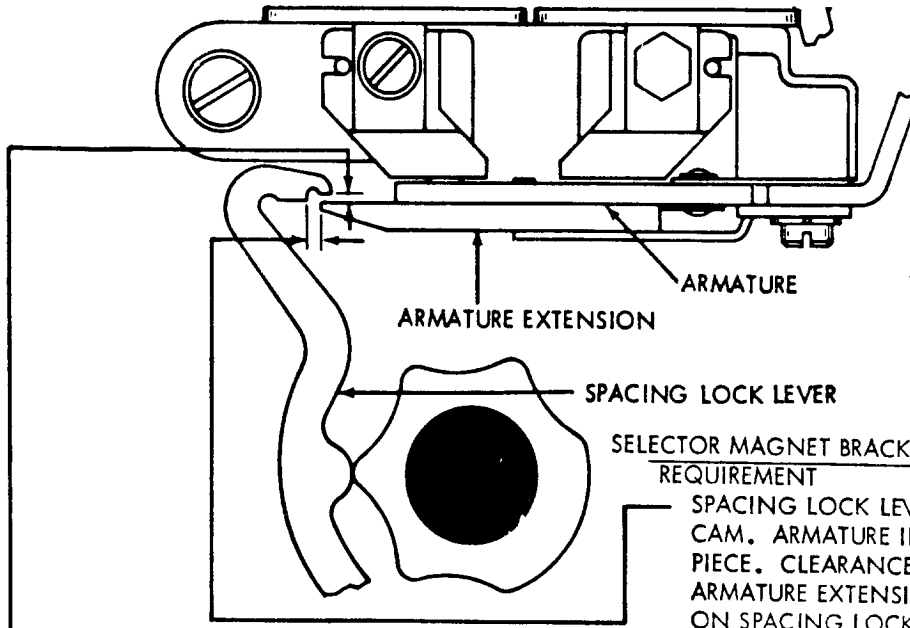


28 & 35 TYPING REPERFORATOR



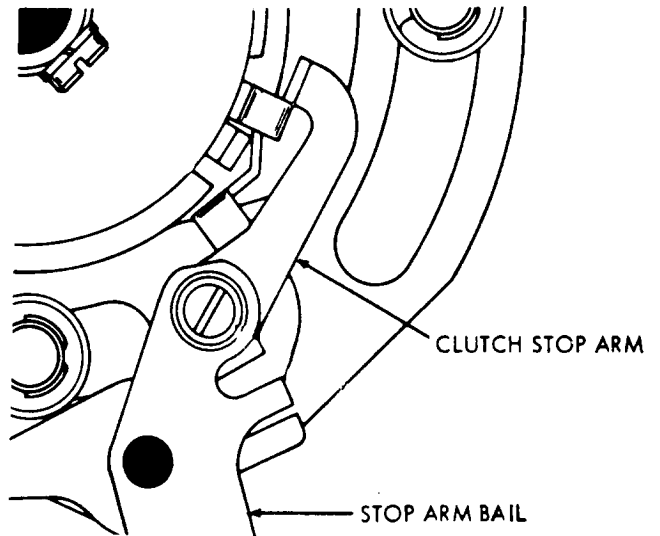


**SELECTOR MAGNET BRACKET
REQUIREMENT**

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

REQUIREMENT

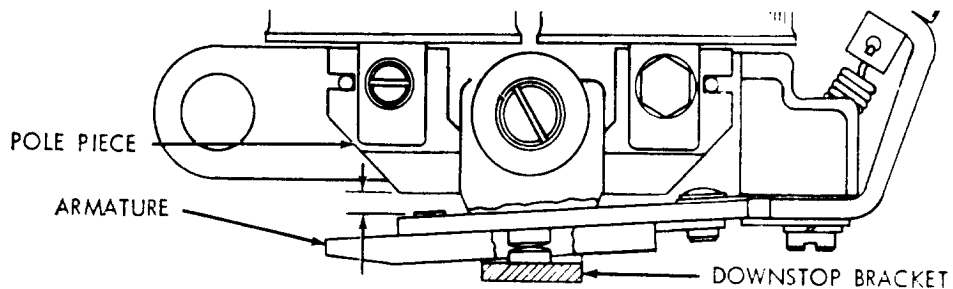
SPACING LOCK LEVER ON HIGH PART OF CAM. ARMATURE IN CONTACT WITH POLE PIECE. SOME CLEARANCE BETWEEN UPPER SURFACE OF ARMATURE EXTENSION AND LOWER SURFACE OF SPACING LOCK LEVER WHEN LOCK LEVER IS HELD DOWNWARD.
MAX. 0.003 INCH



**SELECTOR 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.

35 ONLY



SELECTOR ARMATURE DOWNSTOP BRACKET

REQUIREMENT

REMOVE OIL SHIELD. WITH MAGNET DE-ENERGIZED, LOCK LEVERS ON HIGH PART OF THEIR CAM, AND ARMATURE RESTING AGAINST ITS DOWNSTOP, CLEARANCE BETWEEN END OF ARMATURE AND LEFT EDGE OF LEFT POLE PIECE
MIN. 0.025 INCH MAX. 0.030 INCH.

To Adjust:

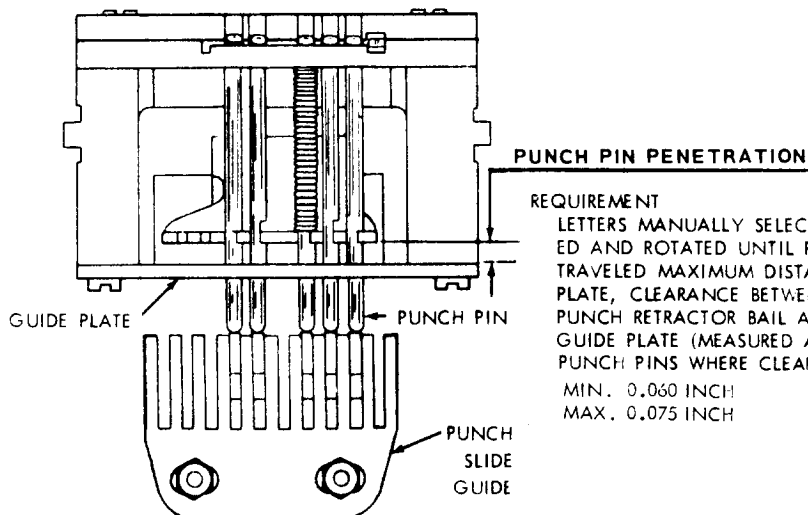
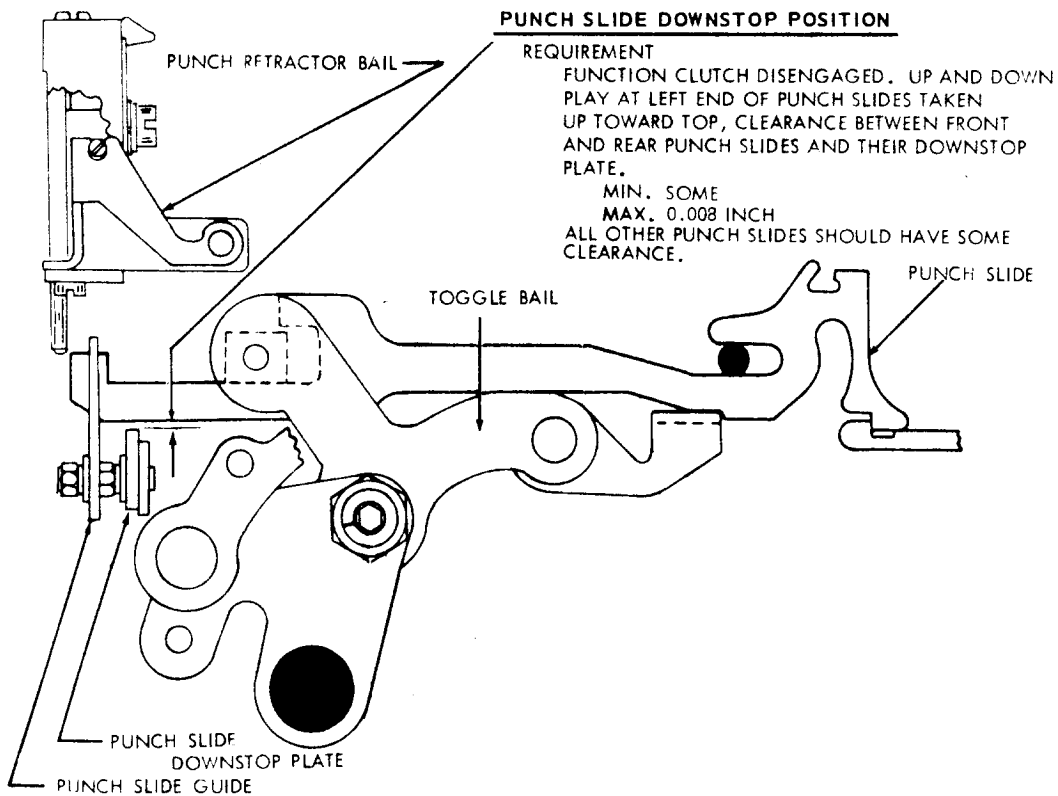
TYPING

28 Type B. S. P. 573-118-700
35 Type B. S. P. 574-233-700

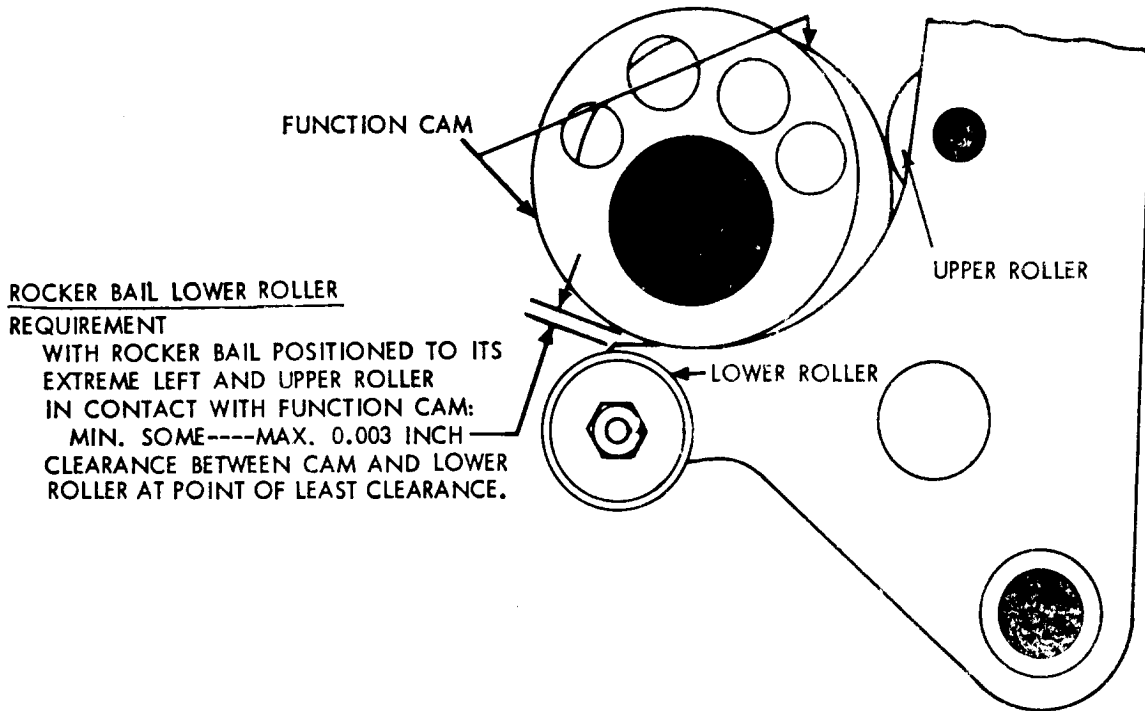
NON TYPING

28 Type B. S. P. 573-119-700
35 Type B. S. P. 574-224-700

28 TYPE ONLY

**PUNCH SLIDE GUIDE POSITION**

REQUIREMENT
LETTERS SELECTED. FUNCTION CLUTCH ENGAGED AND ROTATED UNTIL THE PUNCH SLIDES JUST TOUCH THE PUNCH PINS. THE PUNCH SLIDES SHOULD ALIGN CENTRALLY WITH THEIR RESPECTIVE PUNCH PINS (GAUGED BY EYE).



ROCKER BAIL LOWER ROLLER

REQUIREMENT

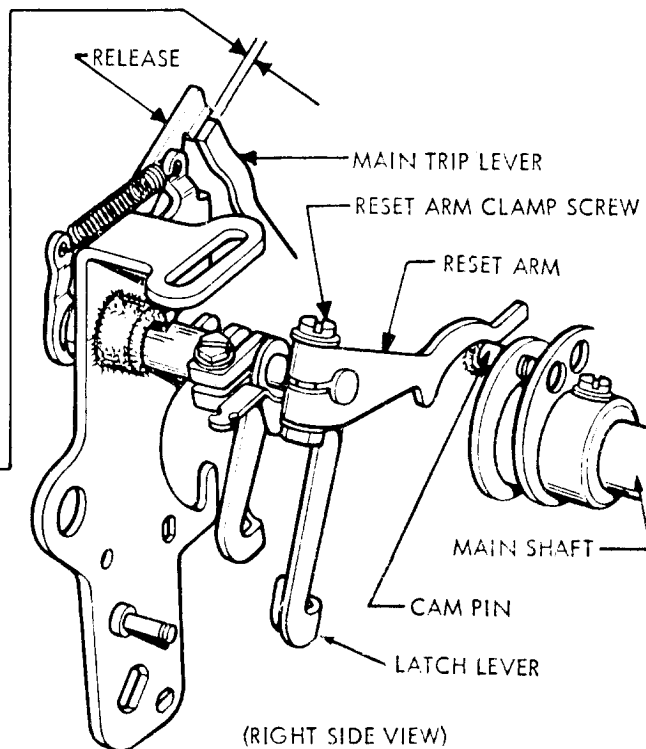
WITH ROCKER BAIL POSITIONED TO ITS EXTREME LEFT AND UPPER ROLLER IN CONTACT WITH FUNCTION CAM:
 MIN. SOME----MAX. 0.003 INCH
 CLEARANCE BETWEEN CAM AND LOWER ROLLER AT POINT OF LEAST CLEARANCE.

RESET ARM TO CHECK

TRIP FUNCTION CLUTCH AND POSITION MAIN SHAFT SO THAT RESET ARM IS HELD IN ITS HIGHEST POSITION BY CAM PIN.

REQUIREMENT

- (1) CLEARANCE BETWEEN RELEASE AND MAIN TRIP LEVER:
 MIN. 0.010 INCH----MAX. 0.030 INCH
- (2) LATCH LEVER END PLAY:
 MIN. SOME----MAX. 0.010 INCH



(RIGHT SIDE VIEW)

**To Adjust:
 TYPING**

- 28 Type B. S. P. 573-118-700
- 35 Type B. S. P. 574-233-700

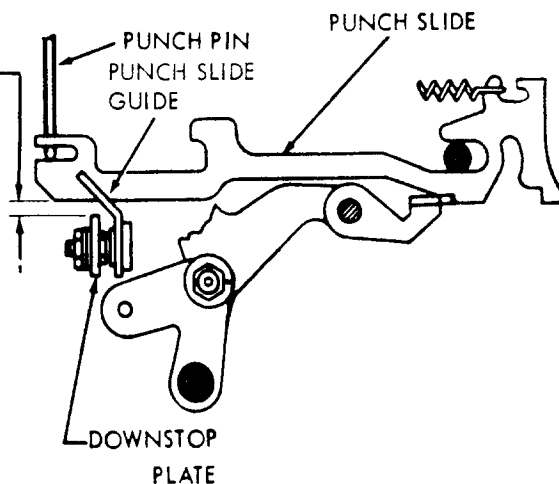
NON TYPING

- 28 Type B. S. P. 573-119-700
- 35 Type B. S. P. 574-224-700

**PUNCH MECHANISM
35 TYPE ONLY**

PUNCH SLIDE DOWNSTOP POSITION
REQUIREMENT

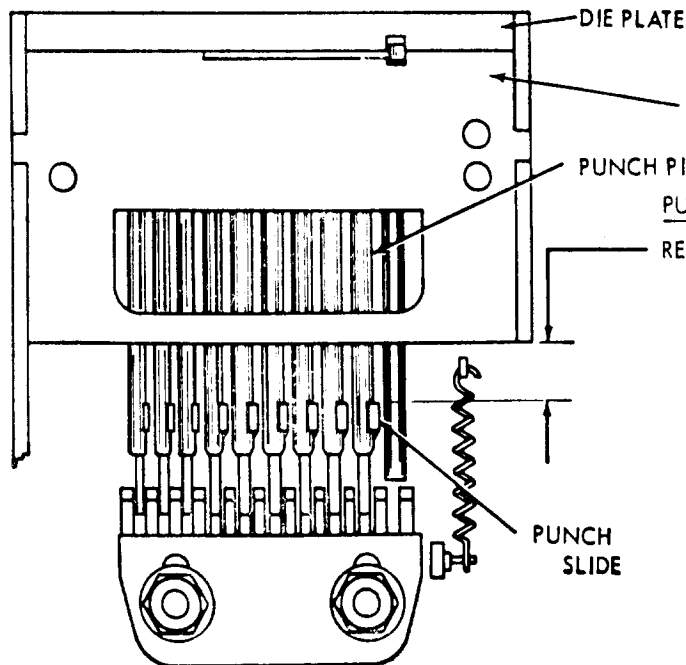
FUNCTION CLUTCH DISENGAGED AND LATCHED
PLAY IN THE PUNCH SLIDES TAKEN UP TOWARD
THE TOP, CLEARANCE BETWEEN EACH PUNCH
SLIDE AND THE DOWNSTOP PLATE
MIN. SOME
MAX. 0.008 INCH



PUNCH SLIDE GUIDE
REQUIREMENT

THE PUNCH SLIDES SHOULD ALIGN WITH
THEIR CORRESPONDING PUNCH PINS AND
BE FREE OF BINDS AFTER TIGHTENING THE
GUIDE MOUNTING STUDS. EACH PUNCH
SLIDE SHOULD RETURN FREELY AFTER BEING
PUSHED IN NOT MORE THAN 1/16 INCH.

NOTE: MEASURE CLEARANCE
ADJACENT TO THE NO. 1 AND
NO. 8 PUNCH PIN.



PUNCH PIN PENETRATION

REQUIREMENT

RUBOUT SELECTED, FUNCTION CLUTCH
ENGAGED AND ROTATED UNTIL PUNCH PINS
HAVE TRAVELED MAXIMUM DISTANCE INTO
DIE PLATE. CLEARANCE BETWEEN UPPER
EDGE OF EACH SLIDE AND LOWER SIDE OF
PUNCH HOLDER (MEASURE ADJACENT TO
#1 and #8 PUNCH PIN)
MIN. 0.025 INCH
MAX. 0.035 INCH

To Adjust:

TYPING

B. S. P. 574-233-700

NON TYPING

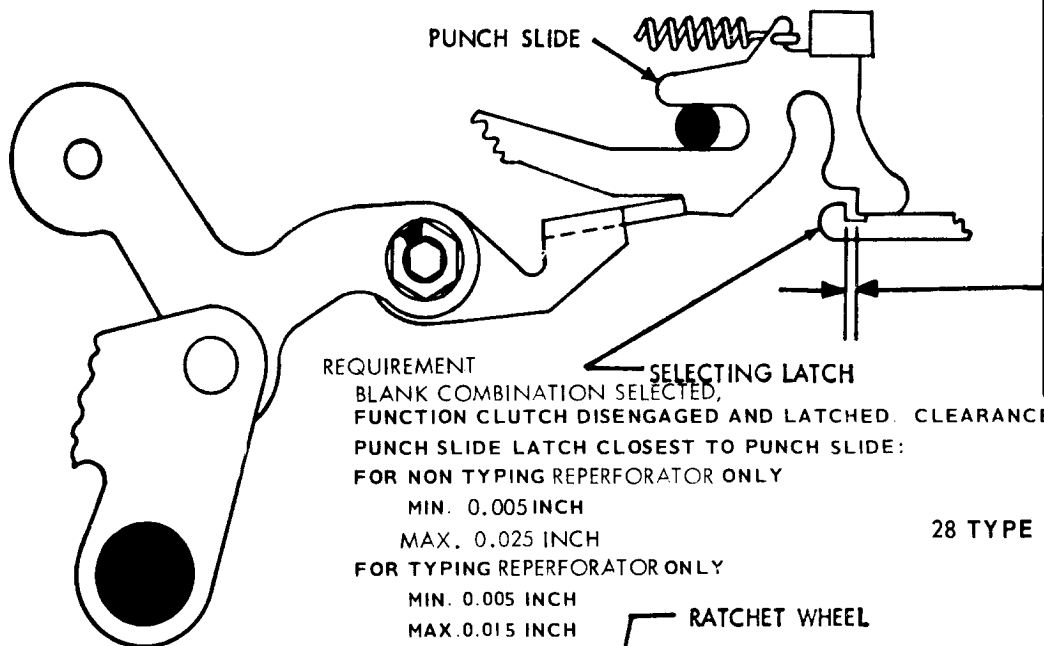
B. S. P. 574-224-700

PUNCH SLIDE RESET BAIL

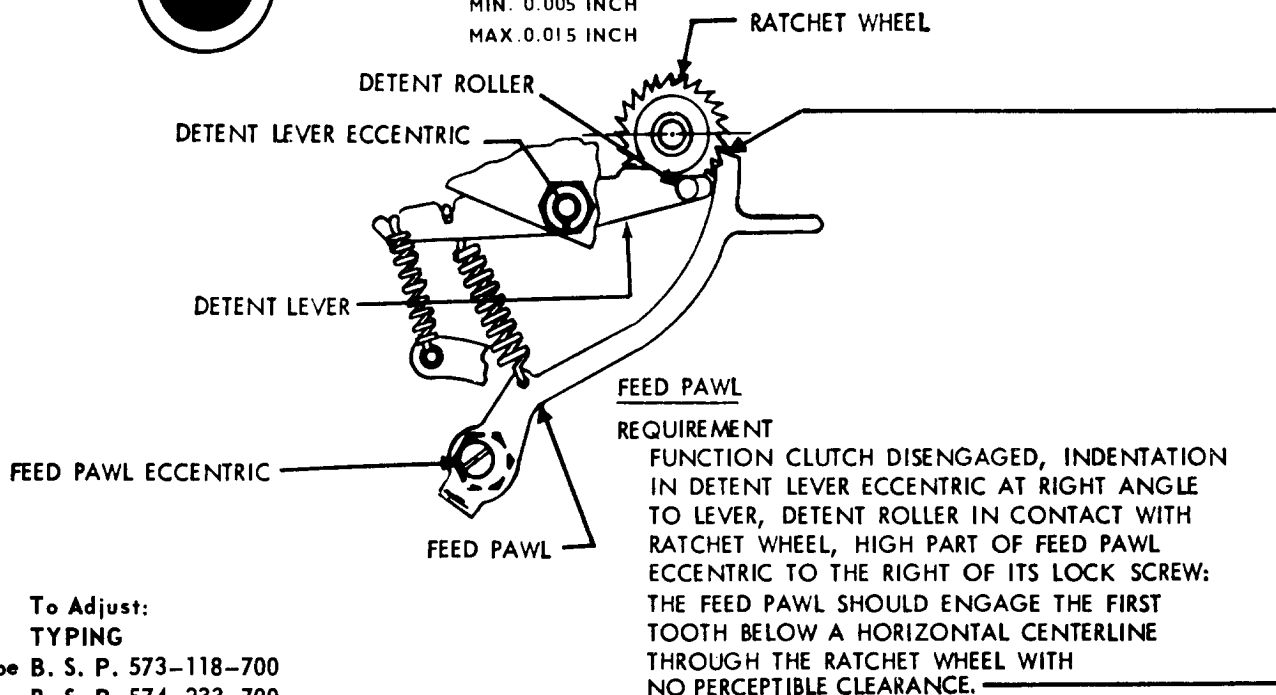
REQUIREMENT

WITH FUNCTION CLUTCH DISENGAGED SELECT A BLANK COMBINATION
 MIN. 0.015 INCH---MAX. 0.025 INCH
 BETWEEN PUNCH SLIDE AND PUNCH SLIDE LATCH.

35 TYPE ONLY



28 TYPE ONLY



To Adjust:
 TYPING

28 Type B. S. P. 573-118-700

35 Type B. S. P. 574-233-700

NON TYPING

28 Type B. S. P. 573-119-700

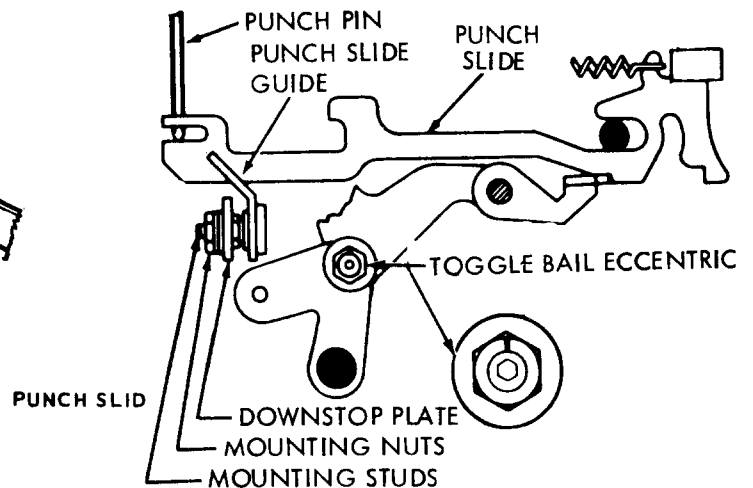
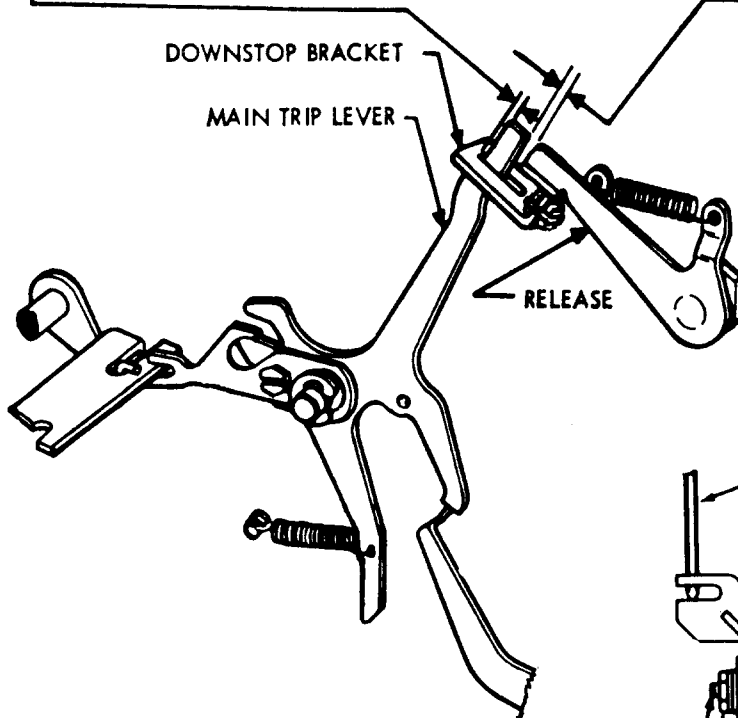
35 Type B. S. P. 574-224-700

FUNCTION CLUTCH TRIP MECHANISM

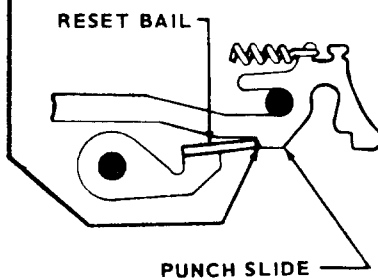
FOLLOWER LEVER
REQUIREMENT

WITH FOLLOWER LEVER ON HIGH PART OF CAM:
 CLEARANCE BETWEEN RELEASE AND MAIN TRIP LEVER:
 MIN. 0.010 INCH --- MAX. 0.030 INCH

SOME CLEARANCE BETWEEN MAIN TRIP LEVER AND DOWNSTOP BRACKET.

REQUIREMENT

CLUTCH DISENGAGED AND LATCHED
 PUNCH SLIDE RESET BAIL SHOULD FULLY
 ENGAGE THE NOTCHES IN THE PUNCH
 SLIDES.

RESET BAIL TRIP LEVER
REQUIREMENT

- (1) MANUALLY SELECT AN ALL SPACING COMBINATION. MANUALLY ROTATE RESET BAIL TRIP LEVER. THE PUNCH SLIDE RESET BAIL SHALL TRIP BEFORE THE FUNCTION CLUTCH IS TRIPPED.
- (2) WITH FUNCTION AND SELECTOR CLUTCHES DISENGAGED AND LATCHED, THE PUNCH SLIDE RESET BAIL SHALL FULLY ENGAGE THE PUNCH SLIDE LATCHING SURFACE WHEN PLAY IN PARTS IS TAKEN UP IN DIRECTION TO MAKE THE ENGAGEMENT THE LEAST.

TO ADJUST

- (1) WITH TRIP LEVER EXTENSION LOCK SCREW FRICTION TIGHT AND DELETE (RUBOUT) COMBINATION SELECTED, POSITION RESET BAIL AGAINST PUNCH SLIDES. TAKE UP PLAY BETWEEN RESET BAIL AND TRIP LEVER IN A COUNTER CLOCKWISE DIRECTION. POSITION TRIP LEVER BY MEANS OF ITS PRY POINT.
- (2) RECHECK REQUIREMENT (1) ABOVE AND REFINE ADJUSTMENT IF NECESSARY.

To Adjust:
TYPING

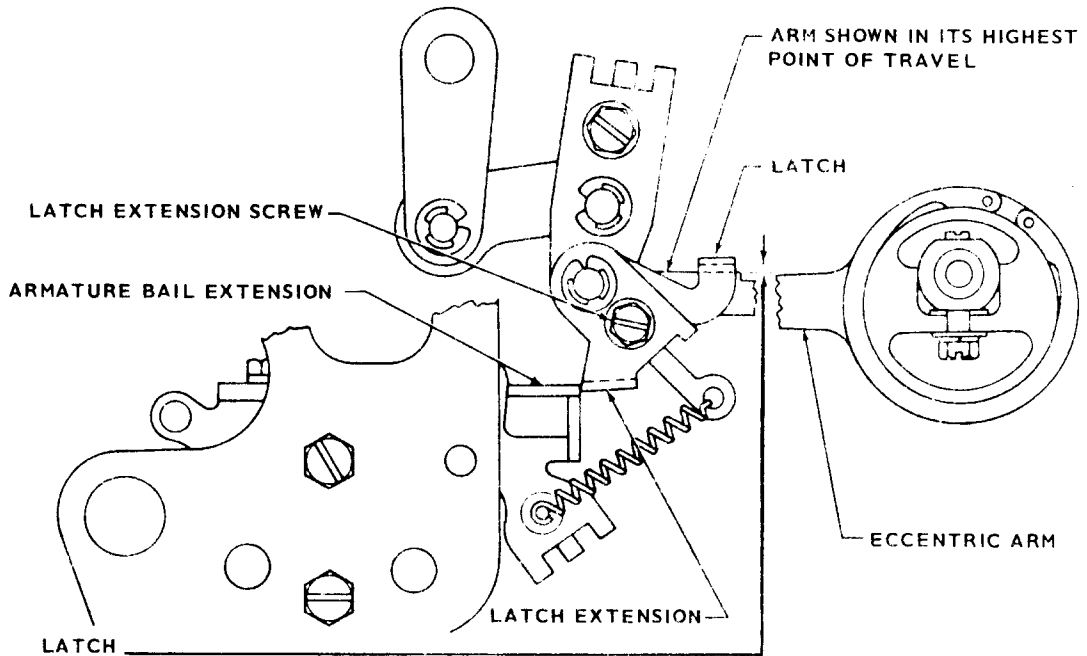
28 Type B. S. P. 573-118-700

35 Type B. S. P. 574-233-700

NON TYPING

28 Type B. S. P. 573-119-700

35 Type B. S. P. 574-224-700

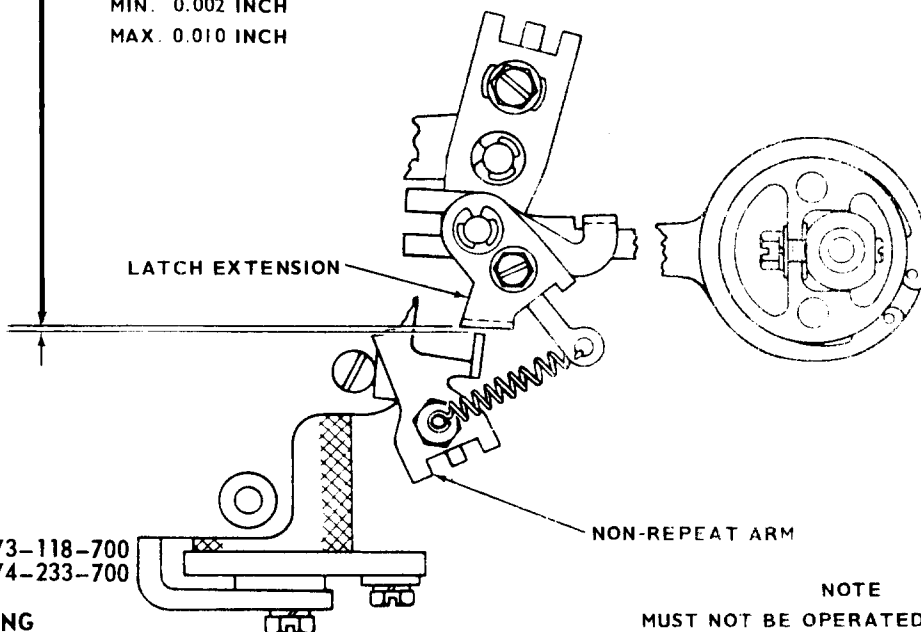


LATCH REQUIREMENT

BACKSPACE MECHANISM IN UNOPERATED POSITION. ARMATURE OFF POLE FACE (DE-ENERGIZED). LATCH EXTENSION AGAINST END OF ARMATURE BAIL EXTENSION. ECCENTRIC ARM AT ITS CLOSEST POINT TO UNDERSIDE OF LATCH. CLEARANCE BETWEEN LATCH AND ECCENTRIC ARM
 MIN. 0.005 INCH
 MAX. 0.025 INCH

NON-REPEAT ARM REQUIREMENT

BACKSPACE MECHANISM IN UNOPERATED POSITION. CLEARANCE BETWEEN TOP SURFACE OF NON-REPEAT ARM AND LOWEST POINT OF LATCH EXTENSION
 MIN. 0.002 INCH
 MAX. 0.010 INCH



To Adjust:
 TYPING

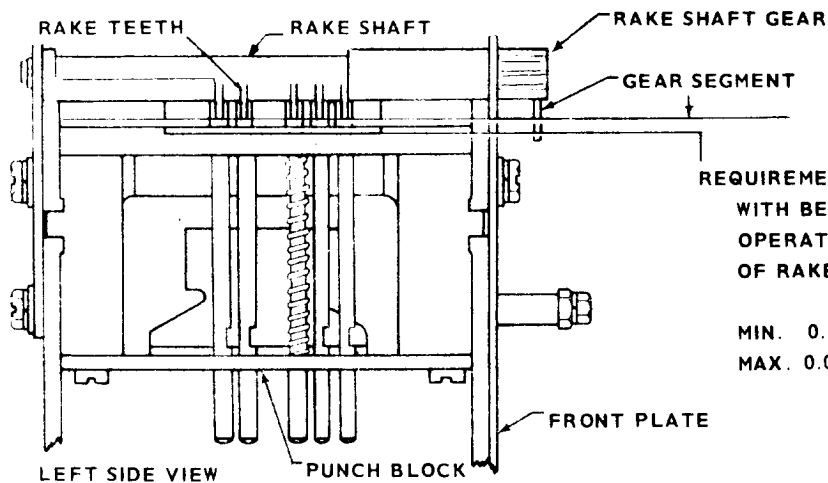
28 Type B. S. P. 573-118-700
 35 Type B. S. P. 574-233-700

NON TYPING

28 Type B. S. P. 573-119-700
 35 Type B. S. P. 574-224-700

NOTE
 MUST NOT BE OPERATED WITH LATCH AGAINST ARMATURE EXTENSION

POWER-DRIVE BACKSPACE MECHANISM

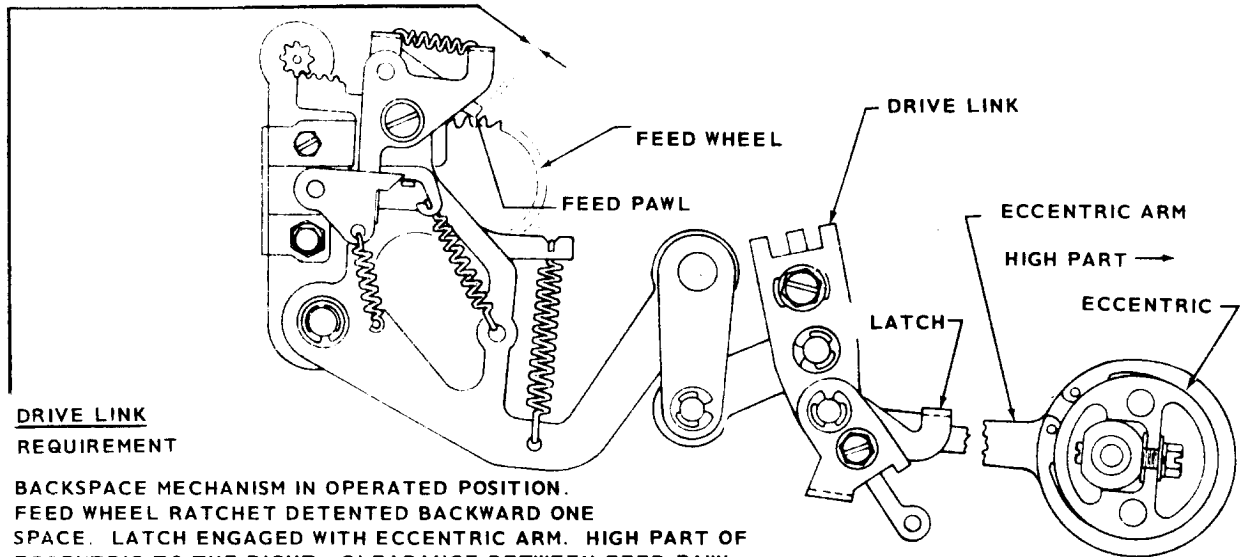


28 TYPE ONLY

REQUIREMENT

WITH BELLCRANK SPRING UNHOOKED AND RAKE IN OPERATED POSITION, CLEARANCE BETWEEN BOTTOM OF RAKE TEETH AND LOWER SURFACE OF TAPE SLOT.

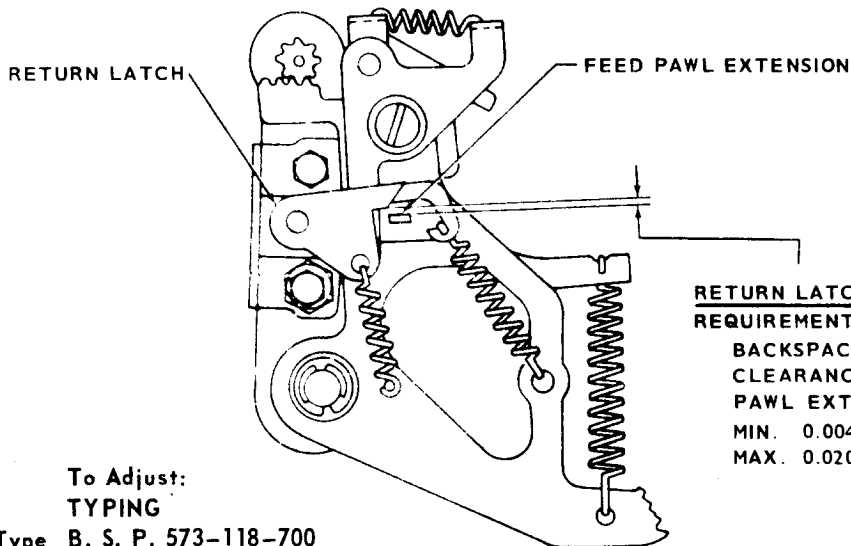
MIN. 0.007 INCH (CHECK AT NO. 1 & 5 PINS)
 MAX. 0.011 INCH



DRIVE LINK
 REQUIREMENT

BACKSPACE MECHANISM IN OPERATED POSITION. FEED WHEEL RATCHET DETENTED BACKWARD ONE SPACE. LATCH ENGAGED WITH ECCENTRIC ARM. HIGH PART OF ECCENTRIC TO THE RIGHT. CLEARANCE BETWEEN FEED PAWL AND FEED WHEEL RATCHET TOOTH

CHECKED AT EACH 10 DEGREES.
 MIN. SOME - - - MAX. 0.003 INCH



28 TYPE ONLY

RETURN LATCH
 REQUIREMENT

BACKSPACE MECHANISM IN UNOPERATED POSITION. CLEARANCE BETWEEN RETURN LATCH AND FEED PAWL EXTENSION

MIN. 0.004 INCH
 MAX. 0.020 INCH

To Adjust:
 TYPING

- 28 Type B. S. P. 573-118-700
- 35 Type B. S. P. 574-233-700

NON TYPING

- 28 Type B. S. P. 573-119-700
- 35 Type B. S. P. 574-224-700

35 TYPE**ROTARY CORRECTING LEVER****(1) TO CHECK**

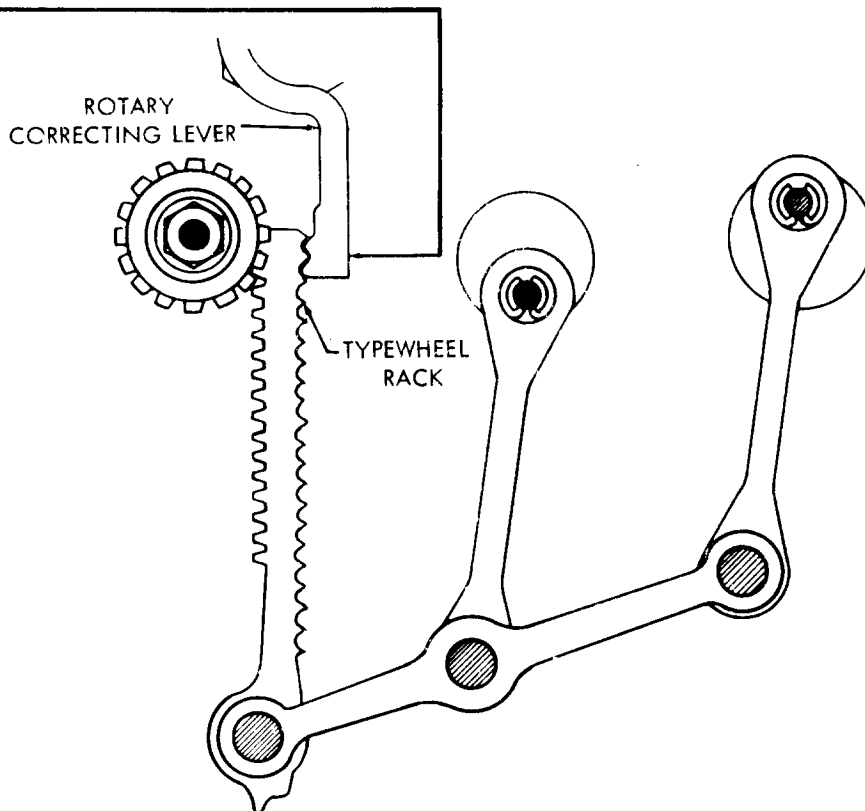
SELECT "X" CODE COMBINATION (---45-78). TRIP FUNCTION CLUTCH AND POSITION ROCKER BAIL TO EXTREME LEFT. MANUALLY SEAT ROTARY CORRECTING LEVER IN TYPEWHEEL RACK.

REQUIREMENT

SECOND TOOTH FROM TOP OF RACK SEATED BETWEEN LOBES OF CORRECTING LEVER.

(2) TO CHECK

IN A MANNER SIMILAR TO THAT DESCRIBED ABOVE, CHECK ENGAGEMENT OF FIFTH TOOTH (--34--78), NINTH TOOTH (---4---8) AND SIXTEENTH TOOTH (--3-5--8).

**28 TYPE****ROTARY CORRECTING LEVER****(1) TO CHECK**

WITH UNIT IN FIGURES CONDITION, SELECT NO. 9 CODE COMBINATION (---45). TRIP FUNCTION CLUTCH AND POSITION ROCKER BAIL TO EXTREME LEFT. MANUALLY SEAT ROTARY CORRECTING LEVER IN TYPE WHEEL RACK.

REQUIREMENT

SECOND TOOTH FROM TOP OF RACK SEATED BETWEEN LOBES OF CORRECTING LEVER.

(2) TO CHECK

IN A MANNER SIMILAR TO THAT DESCRIBED ABOVE CHECK ENGAGEMENT OF FIFTH TOOTH (--34-) CODE COMBINATION SELECTED IN FIGURES CONDITION), NINTH TOOTH (---4- CODE COMBINATION SELECTED IN LETTERS CONDITION) AND SIXTEENTH TOOTH (-3-5 CODE COMBINATION SELECTED IN LETTERS CONDITION).

To Adjust:

28 Type B. S. P. 573-118-700
35 Type B. S. P. 574-233-700

FUNCTION BOX MECHANISM

LIFTER ARM ECCENTRIC SCREW
REQUIREMENT

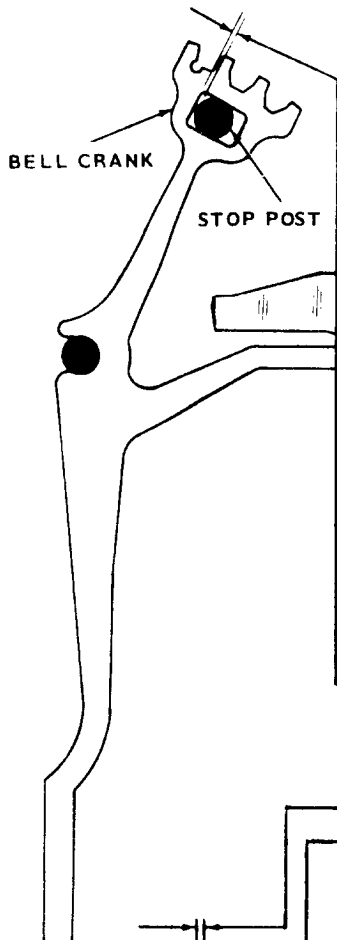
WITH FUNCTION CLUTCH DISENGAGED.

(1) CLEARANCE BETWEEN CLOSEST PROJECTION
OF BELL CRANKS AND ASSOCIATED LETTERS OR
FIGURES FUNCTION BLADE PROJECTION:

MIN 0.008 INCH - - - MAX. 0.020 INCH

(2) MIN. 0.005 INCH CLEARANCE

FOR FUNCTION BLADES OTHER THAN LETTERS
AND FIGURES IF UNIT IS SO EQUIPPED.

TRANSFER MECHANISM

BELL CRANK

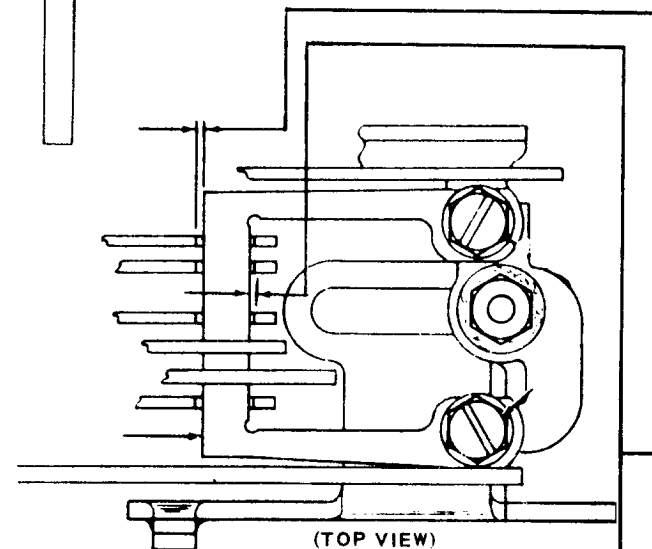
STOP POST

TRANSFER MOUNTING BRACKET
TO CHECK

MANUALLY SELECT BLANK CODE
COMBINATION. ROTATE MAIN SHAFT
UNTIL FUNCTION CLUTCH TRIPS.

REQUIREMENT

WITH PUNCH SLIDES LATCHED. CLEARANCE
BETWEEN BELL CRANK AND STOP POST:
MAX. 0.018 INCH* FOR 28 TYPE; MAX. 0.007 FOR 35 TYPE
AT BELL CRANK WHERE CLEARANCE IS MAXIMUM.
WHEN BELL CRANK WITH MINIMUM
CLEARANCE IS TOUCHING POST.



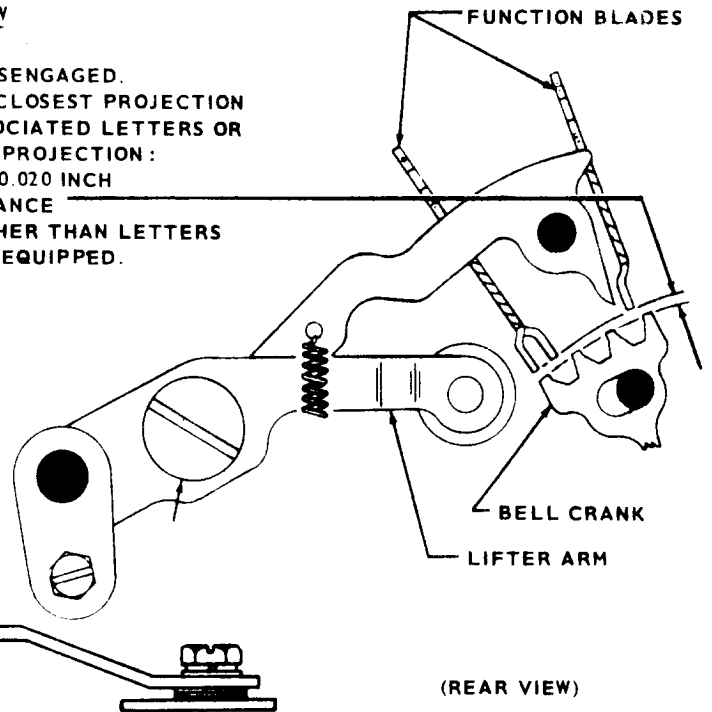
(TOP VIEW)

To Adjust:

28 Type B. S. P. 573-118-700

35 Type B. S. P. 574-233-700

FUNCTION BLADES



BELL CRANK

LIFTER ARM

(REAR VIEW)

FUNCTION MECHANISMPUSH BAR OPERATING BLADETO CHECK

MANUALLY SELECT ALL MARKING. ROTATE
MAIN SHAFT UNTIL FUNCTION CLUTCH TRIPS.
MANUALLY SEAT PUSH BARS IN DETENTED
POSITION. IN BAR WHICH IS NEAREST LEFT
EDGE OF BLADE. TAKE UP PLAY TO LEFT
AND REAR AND THEN RELEASE.

(1) REQUIREMENT

CLEARANCE BETWEEN BAR AND LEFT EDGE
OF BLADE:

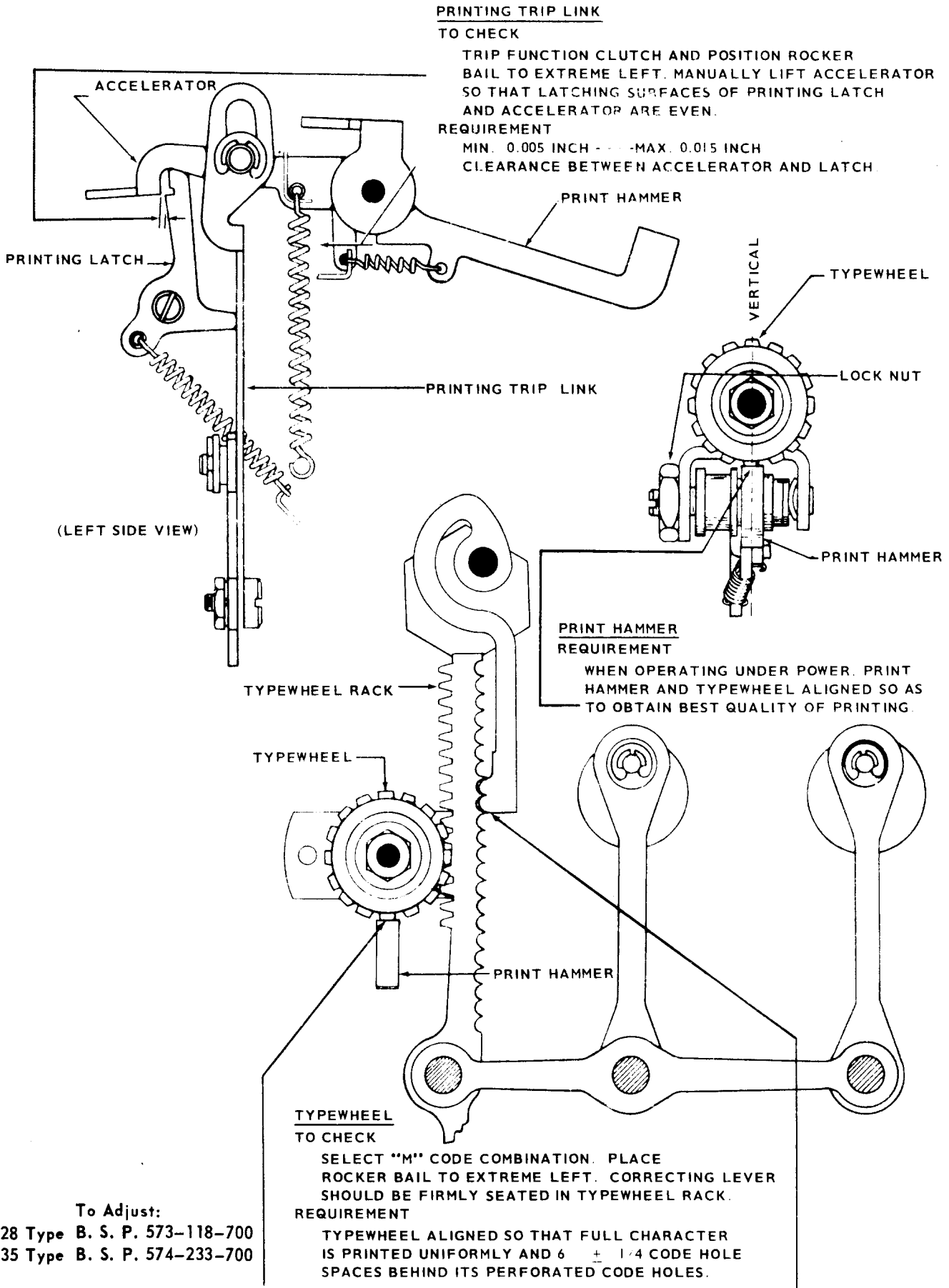
MIN. 0.015 INCH - - - - MAX. 0.030 INCH

(2) REQUIREMENT

SOME CLEARANCE BETWEEN RIGHT EDGE OF
BLADE AND PUSH BARS WHEN PLAY IN BARS
HAS BEEN TAKEN UP TO RIGHT AND RELEASED.

(3) REQUIREMENT

WITH UNIT IN STOP POSITION, SOME CLEAR -
ANCE BETWEEN RIGHT EDGE OF BLADE AND
BARS WHEN PLAY IN BARS HAS BEEN TAKEN
UP TO RIGHT AND RELEASED.



TYPING MECHANISM

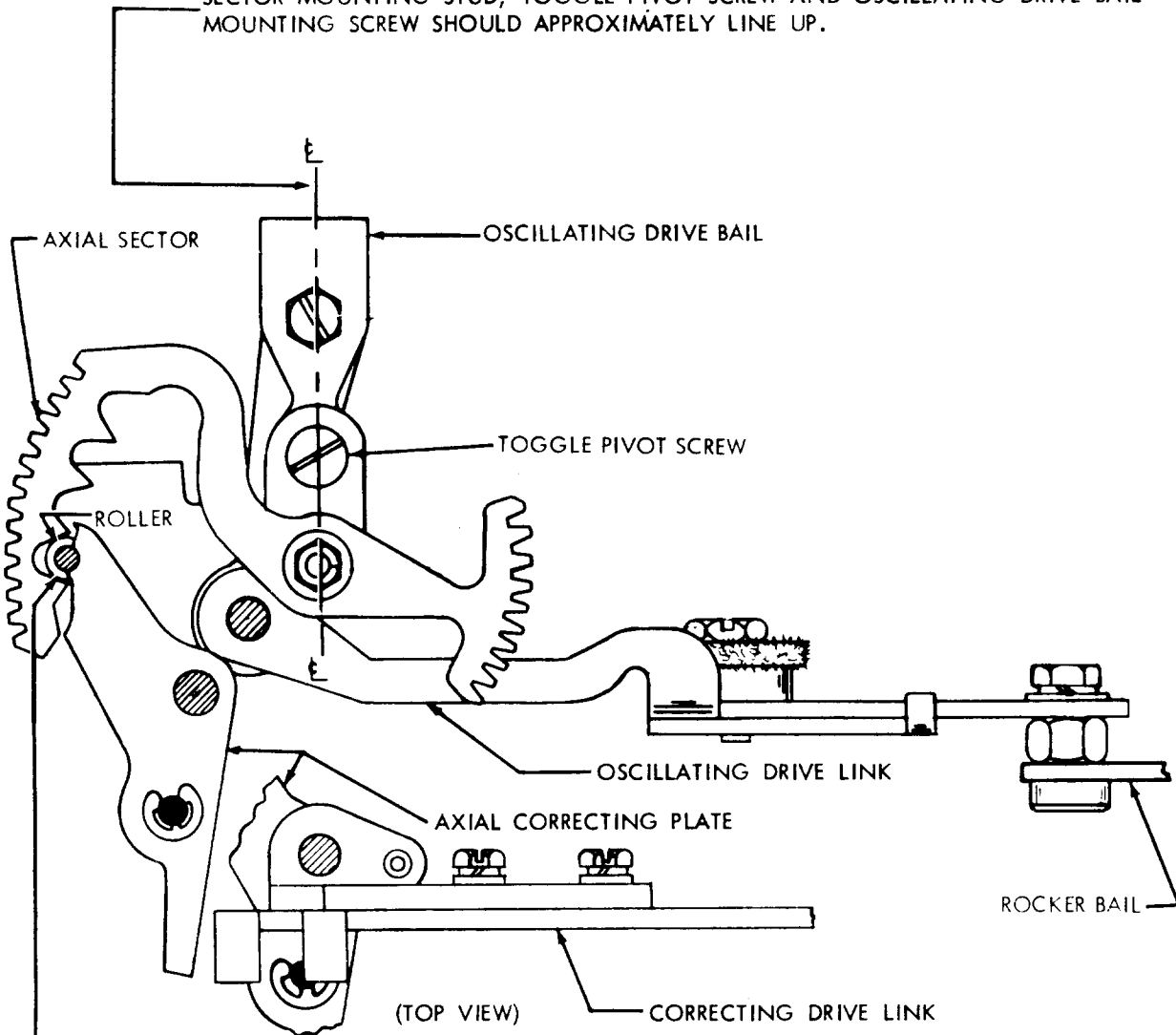
OSCILLATING DRIVE LINK

TO CHECK

POSITION ROCKER BAIL TO ITS EXTREME LEFT.

REQUIREMENT

SECTOR MOUNTING STUD, TOGGLE PIVOT SCREW AND OSCILLATING DRIVE BAIL MOUNTING SCREW SHOULD APPROXIMATELY LINE UP.

CORRECTING DRIVE LINK

TO CHECK

SELECT ALL SPACING. TRIP FUNCTION CLUTCH
AND MOVE ROCKER BAIL TO EXTREME LEFT.

REQUIREMENT

ROLLER ON AXIAL CORRECTING PLATE FIRMLY SEATED
IN FIRST NOTCH OF AXIAL SECTOR.

TO CHECK

SELECT ALL MARKING. TRIP FUNCTION CLUTCH AND
MOVE ROCKER BAIL TO EXTREME LEFT.

REQUIREMENT

ROLLER ON AXIAL CORRECTING PLATE FIRMLY SEATED
IN FOURTH NOTCH OF AXIAL SECTOR.

To Adjust:

28 Type B. S. P. 573-118-700

35 Type B. S. P. 574-233-700