OPERATION OF COMET TELETYPESETTER SAFETIES (DISTRIBUTOR STOP, TIGHT LINE, ASSEMBLER BELT STOP AND LAST MAT KICKER) USING A STANDARD TELETYPESETTER OPERATING UNIT

Sales-Service Mergenthaler Linotype Company Brooklyn 5, N.Y.

December 12, 1951 Service Instruction No. 10

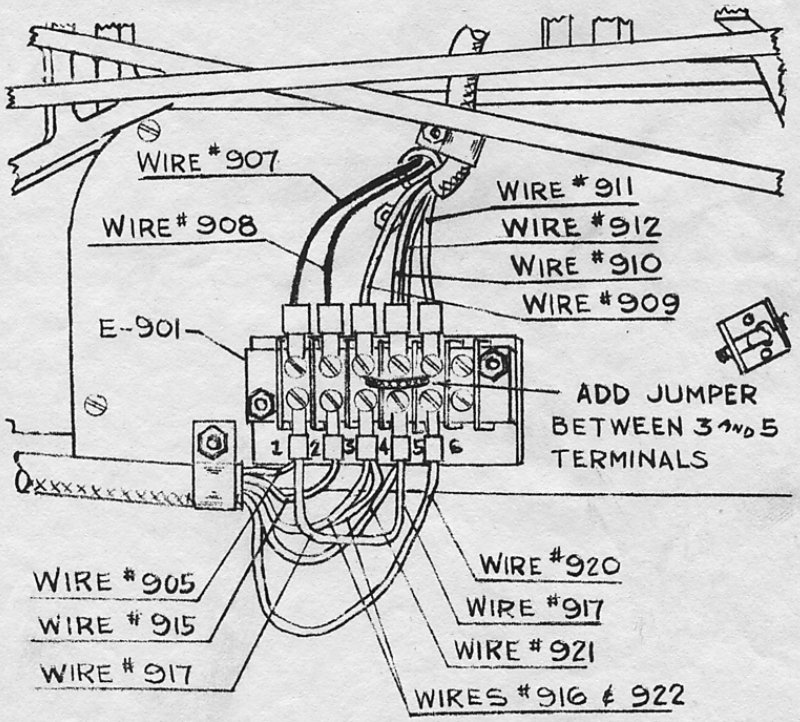
To make use of the Teletypesetter safeties using a standard operating unit, only two changes have to be made. These are:

(1) Placing a small jumper wire between terminals 3 and 5 of terminal block E-901 located on rear of swinging front, to operate distributor stop, tight line and assembler stop safeties.

(2) Addition of a normally open snap-action switch to operate assembler slide brake release solenoid (last mat kicker).

Distributor Stop, Tight Line and Assembler Stop Safeties

By connecting a jumper wire between terminals 3 and 5 of terminal block E-901, the solenoid L-902, located at the left of the keyboard, will be actuated whenever there is a distributor stop, tight line or if the assembler belt shifter rod is pushed in to stop the assembler. When the solenoid is energized, the latch prevents the assembling elevator from rising. This breaks the Teletypesetter yield handle mechanism which disengages the Teletypesetter clutch, stopping the operating unit.



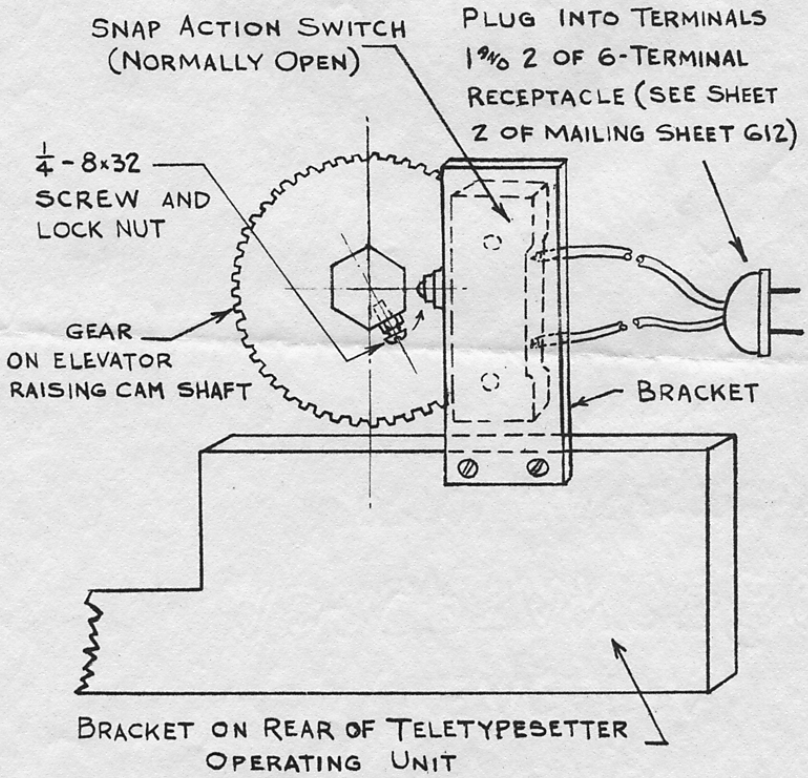
VIEW OF REAR SIDE OF SWINGING FRONT

The tight line safety operates exactly the same under this arrangement as when the Comet type operating unit is in use. The distributor clutch and assembler stop safeties, however, instead of stopping the operating unit instantly by means of stop magnets, energize the L-902 or tight line solenoid which prevents the assembling elevator from rising, thus stopping the operating unit.

With this arrangement of the Teletypesetter safeties, the distributor stop and tight line safeties will operate satisfactorily. The assembler stop safety, however, will not be as effective since it does not stop the operating unit instantly and, therefore, will not prevent the pile-up of matrices on the assembler belt. Under these conditions, however, the assembling elevator cannot rise because the L-902 solenoid is energized and the operating unit will stop before the next line can start assembling. To prevent the piling-up of matrices on the assembler belt, the Teletypesetter starting and stopping lever should be turned to "off" position by the monitor or operator simultaneously with the stopping of the assembler belt when he pushes in the assembler belt stop lever.

Assembler Slide Brake Release (Last Mat Kicker)

By the application of a small snap-switch to a standard operating unit, it is possible to operate the L-901 solenoid on the assembler front to jog the assembler slide brake release to insure the last matrix in the line getting inside of the assembling elevator pawls before the elevator rises. To make this application proceed as follows:



(continued on page 3)

1. With Comet and Teletypesetter Unit in normal position, drill and tap a hole for a $\frac{1}{4}$"-8 x 32 screw in the hexagon-head combination lock nut and oil reservoir which is located on end of Assembling Elevator Elevating Cam Shaft at rear of Teletypesetter Operating Unit. This tapped hole should be located approximately as shown in sketch.

2. Fasten a normally-open snap-action switch (F-8412 will do) to the back base of the Teletypesetter Unit in such a way that the head of the 8 x 32 screw in the hexagon nut will depress the switch plunger within the first 1/6 revolution of the Teletypesetter Unit Assembling Elevator Elevating Cam Shaft. A small, flat piece of metal approximately 1" wide x 2" long x 3/32" thick will serve as a bracket for mounting the snap-action switch.

3. Connect the wires from the "O" and "A" terminals of the snap-action switch to terminals 1 and 2 of plug P-909 (marked "to Teletypesetter" on Sheet 2 of Mailing Sheet #612).

4. When the Assembling Elevator Elevating Cam Shaft starts to revolve, the head of the 8 x 32 screw should depress the switch plunger within the first 1/6 revolution of the shaft. Closing the switch energizes rotary solenoid L-901 on the face plate which trips the assembler slide brake release just before the assembling elevator starts to rise.

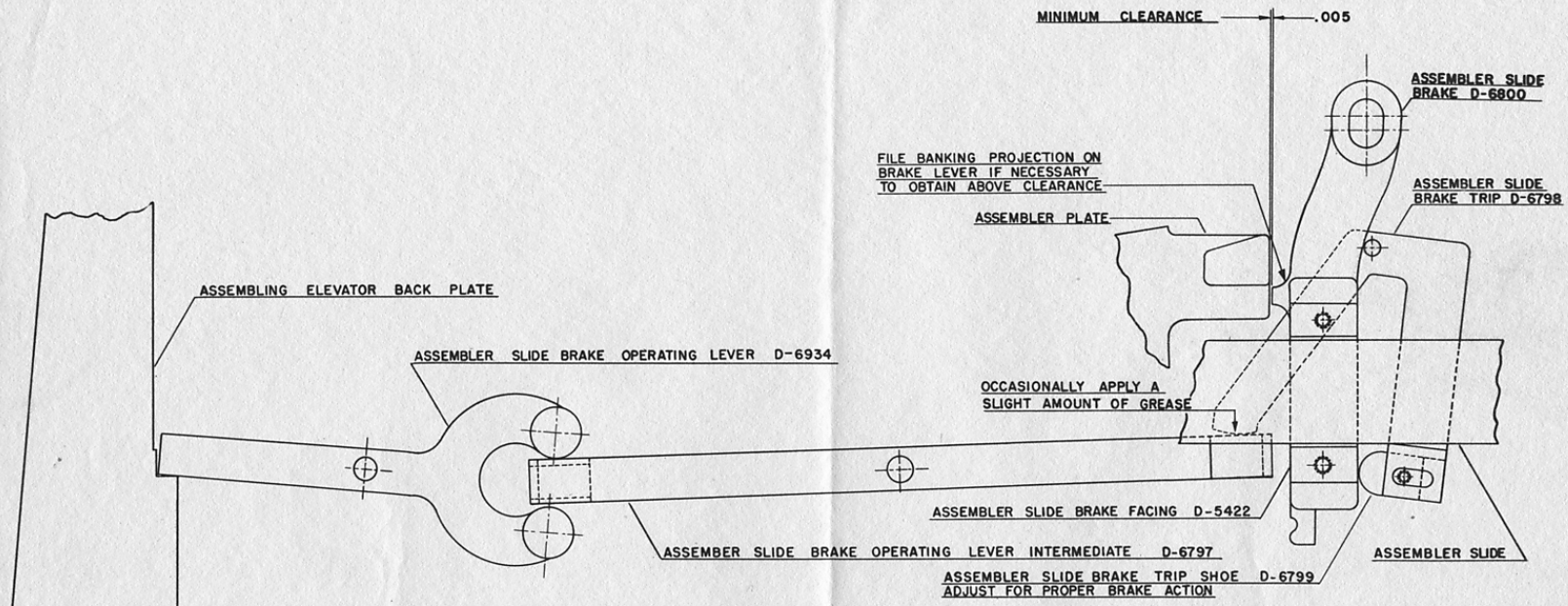


DIAGRAM OF ASSEMBLER SLIDE BRAKE RELEASE MECHANISM SHOWING POSITION OF PARTS WHEN ASSEMBLER BRAKE IS RELEASED. (ASSEMBLING ELEVATOR IS FULLY RAISED).

FIG. 6

The originals from which this digital version were created were collected in a three-ring binder with other service documents. Sometimes, therefore, the precise association and order of the source material was not clear.

In the original binder, the single sheet
"Diagram of Assembler Slide Brake Release Mechanism"
["Fig. 6"]
appeared in close proximity to both

"Operation of Comet Teletypesetter Safeties (Distributor Stop, Tight Line, Assembler Belt Stop and Last Mat Kicker) Using a Standard Teletypesetter Operating Unit"
[Service Instruction No. 10 (1951-12-12)]

and to

"Instructions for the Operation, Adjustment and Maintenance of the M. L. Co. Electric Quadder (Teletypesetter Operated)."
[Service Instruction No. 11 (1951-02-01)]

It doesn't appear to be a part of either,
but it is not irrelevant to them and probably was inserted by a previous owner of the binders.

I have, in any case, included it here.