

August 9, 1963

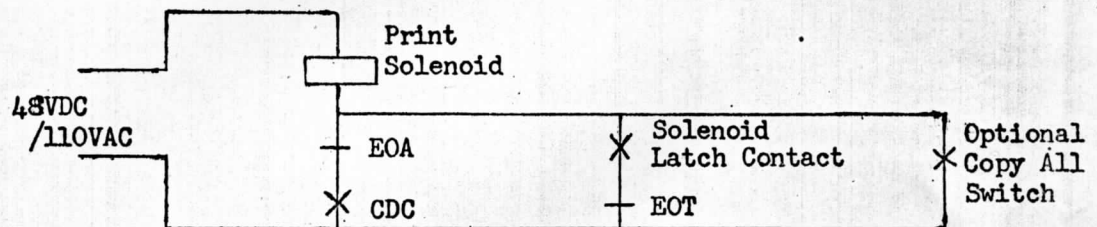
**Subject: Application of the Model 35 Page
Printer to Selective Calling**

The means of operating the Model 35 eight level printer in selective calling applications is substantially different from the Model 28. The Model 28 operates mechanically whereas the Model 35 operates electrically. This memo describes various ways to use the Model 35 in such systems.

In general, the Model 35 can provide the same operating modes as the Model 28. These are: Select-non print; select-print; non select-non print and non select-print. Also the Model 35 can respond to individual, regional or broadcast call directing codes, end of address and end of message codes as the Model 28.

To provide for selective calling, all Model 35 printers are equipped with a print suppression bar and print suppression link. In addition, a solenoid mechanism 198463 (to operate the print suppress bar and link) equipped with a self-latching contact and required stunt box levers and contacts must be provided.

Basic Selective Calling



In the normal rest condition (shown above), the printer is in the select-non print. It is in the select condition since it is waiting for a CDC (call directing code) and is in the non print condition since the solenoid is de-energized (when the solenoid is not energized both printing and format effectors are inhibited).

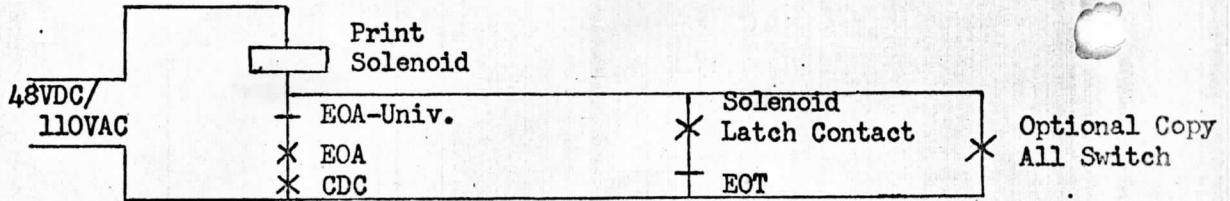
When a CDC is received, the CDC contact operates energizing the solenoid. The solenoid then latches thru the latch and EOT contacts. This provides the select-print mode.

When an EOA (end of address) code is received the EOA contact latches in the operate condition. Those units which have not yet received a CDC, therefore, can no longer respond to one.

At the completion of a message an EOT (end of transmission) code is detected which operates the EOT contact. This releases the print solenoid. The EOA contact is also dumped mechanically on the EOT. The printer is now back to the select-non print mode.

It should be noted that this operation is equivalent to the Model 28 approach where, after receipt of a CDC to turn on the printer, the printer goes to the print condition and records all subsequent CDC's which address other printers on the line. If operation where subsequent CDC's are not recorded is needed, the following approach may be used.

Selective Calling With Printing Only Between EOA and EOT



This operation is similar to the basic approach except that EOA is now operated on the first character after EOA (universal) and a normally open momentary EOA contact is added. Also the CDC is made to latch until receipt of EOT.

The rest condition again is the select-non print mode. When a CDC is received, the CDC contact operates and latches mechanically. The printer remains in the select-non print mode.

When an EOA code is received the momentary contact operates and energizes the solenoid. The solenoid latches thru the latch and EOT contacts. This provides the select-print mode.

On the subsequent character, the EOA-universal contact operates and latches in the operate condition. This provides the non select-non print mode for those units which have not previously received a CDC.

At the completion of the message the EOT code operates the EOT contact to release the print solenoid. Both the EOT-universal and CDC contacts are mechanically dumped. This returns the printer to the select-non print mode.

In both systems an optional copy all switch may be added to permit the operator to over-ride the selective calling operation in order to monitor all traffic. In the Model 28 line this copy all feature was provided by the stunt shift solenoid.

Original Material: J. G. Murglin Memo of 8/09/63