CUSTOMER ENGINEERING TESTS
FOR THE 1401 DATA PROCESSING SYSTEM

Block No. 0320A

RECOMPLEMENT

Purpose of Test

To test the Recomplement circuitry by subtracting algebraically the A Field from the B Field and comparing the positive or negative result with the Result Should Be Field. For unequal conditions the machine either stops to permit console checking or prints the results depending upon the setting of Sense Switch E.

The Flow Chart and Program Instructions for this test are exactly the same as those for the Complement Add Test (Block No. 0310A). The detail cards differ, however, in that the absolute values in the A Field are always larger than those in the B Field. Thus, when the A Field is complemented and added to the absolute values in the B Field, the result produced is a complement figure. The absence of the high-order carry automatically recomplements the result with an appropriate sign in the units position.