CUSTOMER ENGINEERING TESTS
FOR THE 1401 DATA PROCESSING SYSTEM

Block No. 0050A

TEST CHARACTER AND BRANCH

Purpose of Test

To test the Test Character and Branch circuitry by using characters 1, 2, 4, 8, /, -, ǂ, and "blank" as d Modifiers. These characters are compared one at a time with similar characters in the B address of the instruction to test for equal. They are also compared with unlike characters in various combinations to test for unequal. When errors are detected the machine will either stop or print the results depending upon the setting of Sense Switch E.

Units Required

1401 Processing Unit
1402 Card Reader or 729 Tape Drive
1403 Printer (optional)

Operations Used	Code
Clear	(/)
Set Word Marks	(,)
Load	(L)
Move	(M)
Branch	(B)
Test Character and Branch	(B------?)
Print	(2)
Stop (error)	(.)

Method of Test

The complete test block consists of the following cards:

1. Title Card (0A)
2. Two Program Chaining Routine Cards (02-03)
3. Three Title and Headings Print Routine Cards (04-06)
4. Four special program cards to set up instructions that are effective only when tests are run from tape (07-10)
5. Program Instruction Cards (11-54)
6. Detail Cards to test for Equal Characters (55-62)
7. Detail Cards to test for Unequal Characters (63-76)