The program is executed in the following manner:

The divisor (A Field - columns 1-4), the dividend (B Field - columns 21-25), and the Result Should Be Field (columns 41-50) are loaded into the print area for printing purposes. Column 4 is then tested for a blank. If no blank the program proceeds to develop a 5-position quotient and a 5-position remainder in Locations 261-270. If blank the program branches to another set of instructions to develop a 1-position quotient and a 2-position remainder in Locations 261-263. The result is then compared with the Result Should Be Field. If the comparison is unequal, the program branches to the Error Print Routine. The position of Sense Switch E then determines whether the machine stops to permit console checking or prints the results with an "ERROR" indication.

Checking Procedure

SENSE SWITCH E ON - Machine stops for errors.

1. Remove the last card in the stacker.
2. Visually check A Field (divisor), B Field (dividend) and the Result Should Be (quotient and remainder) in the card with Locations 201-204, 221-225, and 241-250 respectively; then check Locations 241-250 with Locations 261-270.
3. Check B ≠ A logic light. Should be OUT if Result Should Be and Result Is Fields are the same; should be ON if not.

SENSE SWITCH E OFF - Machine prints error results. Examples of error print-out:

A Field	B Field	Result Should Be	Result Is	
065D	1549Q	0002L00450 Letter O (Quot.) (Remainder)	0002300456	ERROR (Zone bits in units position of quotient and remainder dropped)
3210	1518E	0000D0234E	0000E0234E	ERROR
2	G	30A	301	ERROR

SENSE SWITCH C ON - Machine prints correct results. Examples:

065D	1549Q	0002L00450	0002L00450
3210	1518E	0000D0234E	0000D0234E
2	G	30A	30A

Procedure for Running Divide Test from Tape

1. Manually enter "1" in Location S58.
2. Set Sense Switch "F" to the OFF position.
   NOTE: This will allow the Divide Test to be executed with all other tests that may be chained.

Procedure for Running ONLY Divide Test from Tape

1. Manually enter Block No. 3210 in Locations S73-S76 and "1" in S58.
2. Set Sense Switch "F" to the ON position.
   NOTE: This will allow only the Divide Test to be executed, by-passing all the others.