An equal comparison at this time is then followed by another compare operation, this time comparing the totals developed in Sense Switch counters B, C, D, E, F and G with the six totals in the COUNTERS SHOULD BE field - 99 99 99 99 99 99. If the comparison is now equal, the test with all switches ON was executed correctly and the program branches to a correct print routine if the printer is to be used ("1" in S52 manually set up at the start of the test). If the printer is not used the machine stops at Location 696 (Storage Address Display 700), which indicates the end of the first operation. If the comparison is unequal the program branches to an error print routine. If there is a "1" in S52 an error print-out occurs, following which the machine stops at Location 696. The absence of the "1" in S52 stops the machine at Location 665 (Storage Address Display 669). To repeat the program for the first operation or continue with the second operation, see instructions on the Flow Chart (page 3).

The second operation is started (1) by setting all switches OFF; (2) by pressing the Start Key. The program now loads 99 00 00 00 00 00 00 in the COUNTERS SHOULD BE field and 00 00 00 00 00 00 00 in the COUNTERS ARE field. From this point on the program is executed in a manner similar to the first operation except that with all switches OFF the "add 1" operations in Sense Switch counters B, C, D, E, F and G are by-passed. Thus, the result in the six Sense Switch counters for the second operation should be 00 00 00 00 00 00. Correct print or error print routines are similar to those described for the first operation, except that the end of the second operation is signalled by a stop at Location 896 (Storage Address Display 900) and error stop at Location 865 (Storage Address Display 869). To repeat the program for the second operation or continue with the next test, see instructions on the Flow Chart (page 4).

Checking Procedure

"1" in S52 - Machine prints correct results as follows:

Switches	COUNTERS SHOULD BE	COUNTERS ARE						
ON - first operation	99 99 99 99 99 99 99	99 99 99 99 99 99 99						
OFF - second operation	99 00 00 00 00 00 00	99 00 00 00 00 00 00						
		Cyc. Ctr.	B	C	D	E	F	G
- Machine prints error results. Examples:								
ON - first operation	99 99 99 99 99 99 99	99 89	99	46	99	99	99	ERROR
OFF - second operation	99 00 00 00 00 00 00	99 00	00	05	00	23	00	ERROR

No "1" in S52 - No printing for correct results. For error results, machine stops at the following locations:

ON - first operation	665 (Storage Address Display 669)
OFF - second operation	865 (Storage Address Display 869)

Procedure for Running Sense Switch Test from Tape

1. Press Tape Load Key - machine stops to permit manual entering of selection codes.
2. Enter "1" in S55 and in other locations to select optional features tests as desired (see pages 12-13).
3. Press Start Key to start loading program.
4. Machine stops when Storage Address Display is 400.
5. Set all Sense Switches ON and proceed as indicated on the two Flow Charts.
   NOTE: This is normally the first test written on tape. To continue with the next test, press Start Key.