SYSTEMS ENGINEERING LABORATORIES PROGRAM LIBRARY

SOFTWARE DESCRIPTION

	CATALOG NO. 303005B
	DOCUMENTATION REV*
	DATEJune 15, 1970
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PROGRAM TITLE:	810A/B Load/Store/Register Change Test (LSRCT)
PURPOSE:	LSRCT uses each of the load, store and registe change instructions except the LCS and CSB
in the second of	instruction. The data used is a counter, so all bit combinations are used. Errors are indicated by a type-out, as are successful cycles.
CONFIGURATION:	Basic SYSTEMS 810A/B Computer
SOFTWARE ENVIRONMENT:	Stand-Alone
PROGRAM LANGUAGE:	SYSTEMS 810A/B Assembly Language
SIZE: 2000 - 2710	TIMING. Approx 2 5MS/Crale

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REASON FOR CHANGE:

Changes were made to allow this program to run with the KeyTran System and output all messages to the selectric typewriter by setting sense switch 13.

USE:

Start at location 20008, the program will run until manually halted.

When running under the KeyTran System the diagnostic number for this program is six (6). The program will automatically be started at location 2000₈ and will continuously run until the Index key is depressed on the selectric typewriter at which time control will be returned to the KeyTran Diagnostic Loader.

If a halt occurs, consult the listing or halt log using the P-Counter location to find the instruction that failed.

Sense Switchs Settings:

SSW 0 up - The cycle count will not be typed.

SSW 1 up - Errors are ignored.

SSW 2 up - No error type-out will occur, the machine will halt. The A-Accumulator will contain the error location and locations 26038, 26048 and 25768 will contain the A&B Accumulators and the counter respectively.

SSW 13 up - Indicates program being run with the KeyTran System and that all output will be via the selectric typewriter.

Type-Out Formats:

Successful Cycles - NNNN
NNNN = The number of cycles completed without error.

Machine Error Preceeding Loc XXXXX AAAAAA BBBBBB CCCCCC

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XXXXX = The location plus one form which an SPB occurred following an error condition.

AAAAAA = The contents of the A-Accumulator.

BBBBBB = The contents of the B-Accumulator.

CCCCCC = The contents of the counter.

HALT LOG:

P-Counter	Instruction In Error
2041	CLA
2045, 2047	LBA, TBA
2052, 2054	IAB
2057, 2061	LAA
2065, 2067	TAB, STB
2072, 2074	STA