

IDENTIFICATION  
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PRODUCT CODE: MAINDEC-08-DHLQA-B-D  
PRODUCT NAME: LQP-8 PRINTER DIAGNOSTIC  
PRODUCT DATE: JULY 1977  
MAINTAINER: DIAGNOSTIC GROUP  
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## 1.0 ABSTRACT

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THE LQP-8 PRINTER DIAGNOSTIC WILL TEST ALL THE LOGIC ON THE LQP-8 PARALLEL INTERFACE MODULE (M8366) THAT CAN BE TESTED VIA PROGRAM INSTRUCTION. IN ORDER TO TEST BOTH THE INTERFACE LOGIC AND PRINTER LOGIC COMPLETELY, BOTH THE LOGIC AND DYNAMIC TESTS MUST BE RUN.

THIS DIAGNOSTIC CAN ALSO BE USED ON THE VT78 SYSTEM TO TEST THE PARALLEL INTERFACE AND PRINTER LOGIC.

A CONSOLE PACKAGE WITH SOFTWARE CONTROLLED SWITCH REGISTER HAS BEEN INCORPORATED INTO THIS DIAGNOSTIC TO ALLOW THE PROGRAM TO RUN WITH OR WITHOUT A HARDWARE SWITCH REGISTER, TO INHIBIT ALL HALTS WITHIN THE PROGRAM, AND TO HAVE COMMUNICATIONS WITH THE DIAGNOSTIC VIA A TERMINAL. IF THE CONSOLE SWITCH REGISTER PACKAGE IS NOT ACTIVE, THEN THE PROGRAM WILL RUN WITH OR WITHOUT THE HARDWARE SWITCH REGISTER. ALL ERRORS AND END OF PASS INDICATIONS WILL RESULT IN A HALT.

THE INFORMATION NECESSARY TO INTERPRET ERROR HALTS OR MESSAGES IS CONTAINED IN SECTION 5 UNDER ERRORS.

## 2.0 REQUIREMENTS

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### 2.1 HARDWARE

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THE FOLLOWING HARDWARE IS REQUIRED FOR EXECUTION OF THIS PROGRAM:

PROCESSOR:	PDP-8A, 8E, 8F, 8M; VT78
MEMORY:	MINIMUM OF 4K R/W MEMORY IN FIELD 0
OPTIONS:	LQP-8 PARALLEL INTERFACE (M8366) CONSOLE SERIAL INTERFACE WITH TERMINAL (OPTIONAL)
SPECIAL:	DIABLO HYTYPE II PRINTER

### 2.2 STORAGE

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THE PROGRAM MUST BE LOADED INTO FIELD 0 CONTAINING AT LEAST 4K OF READ/WRITE MEMORY. THE PROGRAM OCCUPIES LOCATIONS 0000 TO 7577.

### 2.3 PREREQUISITE SOFTWARE

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ALL OF THE BASIC PDP-8A, E, F, M OR VT78 CPU AND MEMORY TESTS MUST HAVE BEEN RUN SUCCESSFULLY.

## 3.0 RESTRICTIONS

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- A. RUNNING OF THE INTERNAL LOGIC/DATA TEST REQUIRES THAT THE LQ PRINTER BE PLACED OFF LINE BY