



**CUSTOMIZE:
INTERFACE ADDRESS
MODIFIER PROGRAM
062-4581-00**

INSTRUCTION MANUAL

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Product Group 70

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PREFACE

CUSTOMIZE allows system software configuration to be modified by the user for use with system options. This manual instructs the user how to use CUSTOMIZE.

It is assumed that the user has a knowledge of TEKTEST III Test Language and knows the necessary information for updating the system (device address block, FNC file, etc.).

This information can be obtained from Tektronix, Inc.

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GENERAL INFORMATION

When a customer purchases from Tektronix, Inc. an instrument for installation in an existing system, changes are sometimes necessary in the device address block of the software driver. This address block is located in the instrument's Function (FNC) file. The software is modified to fit into the present system configuration using the CUSTOMIZE program.

Some systems contain optional instruments that also must be initialized by the formatter (F03260). CUSTOMIZE will not perform the necessary modifications to the formatter for initializing these options. A modified formatter must be obtained from Tektronix, Inc.

Information on Unibus address assignments is found in the S-3200 Unibus Address Assignments manual, Tektronix Part No. 070-3360-00.

OPERATION

CUSTOMIZE is run from the Executive (\$). A log of all prompts and responses is printed on the terminal and, if ready, on the line printer. To run CUSTOMIZE, type CUSTOM (the computer recognizes only the first six characters of the title). The program will prompt with the following:

ENTER SYSTEM JOB NUMBER:

The job number is stored in user words 3 and 4¹ if all symbols are properly defined. If not, these words are cleared to inhibit the use of the function. The job number must be 1 to 6 legal RAD50 characters. Illegal characters are treated as blanks.

INPUT DEVICE:

Valid input devices are:

- CR — card reader
- PR — paper tape reader
- KB — keyboard
- RETURN — defaults to keyboard

Any other characters result in a list of valid devices and **INPUT DEVICE:** displayed on the terminal. If the device is not available, a message and the prompt **INPUT DEVICE:** are displayed.

Input Formats

For CR and PR, each card (or line) consists of three fields, separated by spaces or tabs.

1. The name of the function file
2. The symbol, as defined in the device address entry of the function
3. The bus address of the symbol

The maximum input line length is 40 characters. Information after column 40 is ignored.

If column one is blank or a tab, the file name on the previous line or card is used. If there is no previous line, the error message **MISSING FILE NAME** is displayed, and the next line is read. The format of the function file name should be: **name [.FNC][:uid]**. If the name is invalid, **SYNTAX ERROR** is displayed, and the next line is read. If the file is busy or not found, the respective error message is displayed and the next line is read.

When the PR or CR becomes not ready, or the CR reads an EOF card, an EOF message is displayed, and CUSTOMIZE terminates normally.

If the input device is the keyboard, the program prompts with **FILE NAME (FNC):**. Enter the name of the function file to be updated in the format: **name [.FNC][:uid]**. CUSTOMIZE prompts for the device address with the symbol found in the function file header. Enter either the octal address or the box and jack number as described on the following page.

¹ For user word information, see *Command Language Reference Guide*, page 4-28 (062-3315).

Bus Addresses

Bus addresses can be specified as the actual octal address¹, which must be an even number in the range $0 \leq n \leq 177776$, or as

$$\text{BOX } n, \text{ JACK } m \quad \begin{matrix} 1 \leq n \leq 9 \\ 4 \leq m \leq 12 \end{matrix}$$

where: n is the number of the 1340 Multi-Interrupt Interface, and
 m is the card slot number within the box.

NOTE

PLUG is accepted, as well as JACK. Only the first letter of BOX, JACK or PLUG is required.

For the 1340 Controller Interface, the octal address must be specified, as the 1340 address is strappable. For information on finding addresses, refer to the Controller Interface manual, *PDP-11 Interface*, 070-3093-00.

Sample:

```
CUSTOM
ENTER SYSTEM JOB NUMBER: LMM
INPUT DEVICE: KB

ENTER FILE NAME (FNC): FLUKE
DVMPR : 164520
DONE, BUS ADDRESS = 164520
DVMDR : 164530
DONE, BUS ADDRESS = 164530
ALL SYMBOLS DEFINED IN FLUKE.FNC:SYS

ENTER FILE NAME (FNC): ^C

CUSTOM
ENTER SYSTEM JOB NUMBER: LMM
INPUT DEVICE: KB

ENTER FILE NAME (FNC): FLUKE
DVMPR : B2,J10
DONE, BUS ADDRESS = 166270
DVMDR : B2,P2
ILLEGAL BOX OR JACK NUMBER2
DVMDR : B2,P6
DONE, BUS ADDRESS = 166230
ALL SYMBOLS DEFINED IN FLUKE.FNC:SYS

ENTER FILE NAME (FNC): ^C
```

¹The octal address must be of the A word of a 1340 slot (e.g., for the hardware interface in multi-interrupt 1340 #2, slot 4, enter 166210 for the bus address).

²P2 (same as J2) is illegal because P2 is occupied by the PDP-11 Interface (021-0105-00).

Multiple Stations

In the event a device such as a handler is to be used on a station that is **not** station #1, the function file must be customized accordingly; e.g., if a handler is to be used on both station 1 and station 2, the file would be customized as follows:

```
CUSTOM
ENTER SYSTEM JOB NUMBER: X00X
INPUT DEVICE: KB

ENTER FILE NAME (FNC): HANDLR
    HAND1: 164650
DONE, BUS ADDRESS = 164650
    HAND2: 164650
DONE, BUS ADDRESS = 164650
    HAND3: 0
DONE, BUS ADDRESS = 0
    HAND4: 0
DONE, BUS ADDRESS = 0
    ASTATN: 166020
DONE, BUS ADDRESS = 166020
    ENDFLG: 2
DONE, BUS ADDRESS = 000002
ALL SYMBOLS DEFINED IN HANDLR.FNC:SYS

ENTER FILE NAME (FNC): ^C
```

If separate handlers are to be used on stations 1 and 2, the addresses assigned for HAND1 and HAND2 would have to be different.