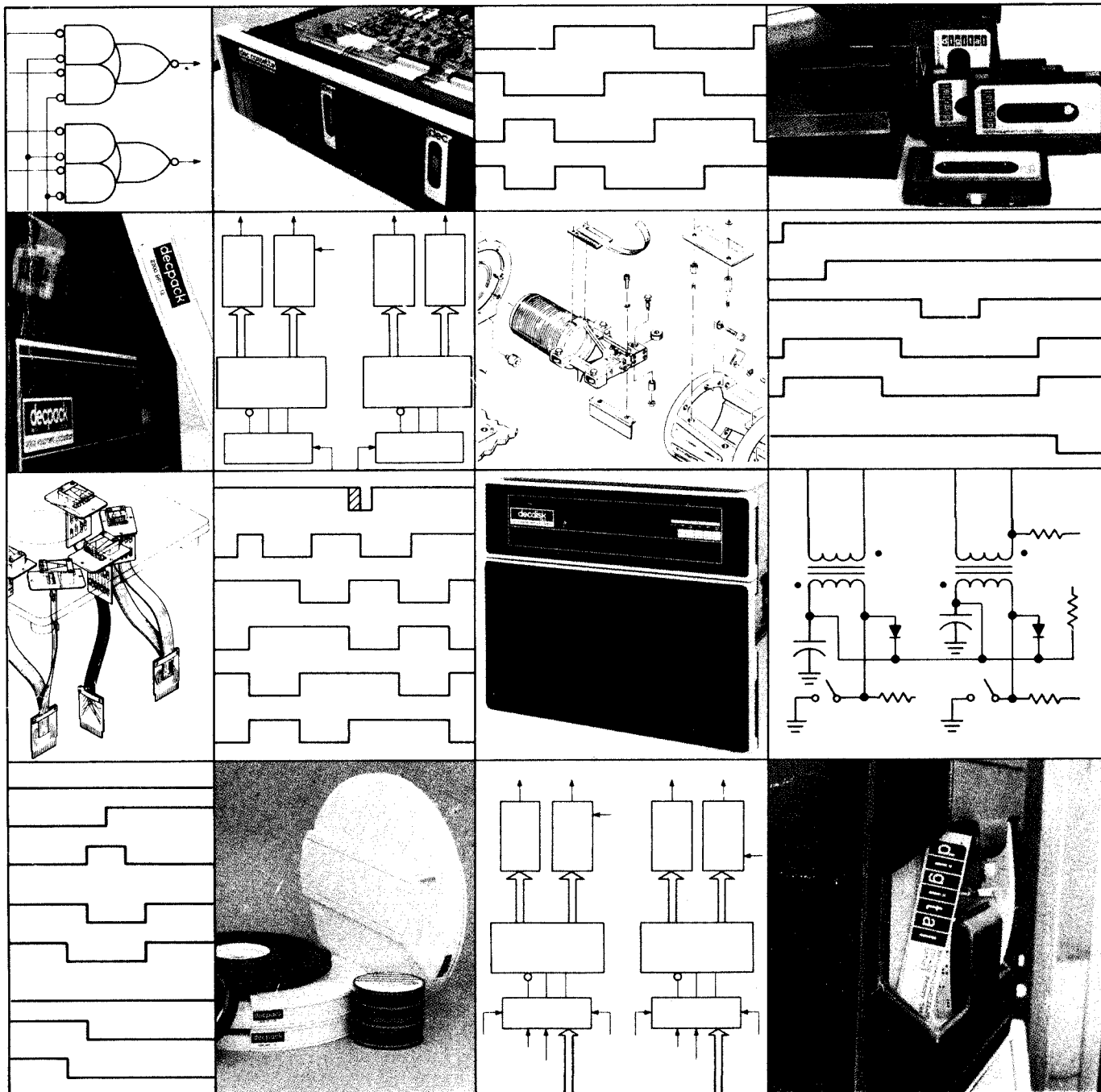


# digital





**TU56DECtape  
transport  
maintenance manual**

DEC-00-HRTC-D

1st Edition, June 1970  
2nd Printing (Rev) March 1971  
3rd Printing, October 1971  
4th Printing, March 1972  
5th Printing, June 1972  
2nd Edition, July 1972  
7th Printing, January 1973  
8th Printing, September 1973

Copyright © 1970, 1971, 1972, 1973 by Digital Equipment Corporation

The material in this manual is for informational purposes and is subject to change without notice.

The following are trademarks of Digital Equipment Corporation, Maynard, Massachusetts:

FLIP CHIP	DECtape
UNIBUS	DECsystem-10
PDP	DECmagtape

## CONTENTS

	Page
<b>CHAPTER 1 GENERAL INFORMATION</b>	
1.1	Introduction 1-1
1.2	Specifications 1-1
1.3	Options 1-3
1.4	Major Assemblies and Systems 1-4
1.4.1	Controls and Indicators 1-4
1.4.2	Tape Motion System 1-5
1.4.3	Power Supply 1-7
<b>CHAPTER 2 INSTALLATION</b>	
2.1	Unpacking and Inspection 2-1
2.2	Mechanical Installation 2-3
2.2.1	Mounting Support Plate Bracket and Spacer Block Installation 2-3
2.2.2	Spacer Support Bracket Installation 2-3
2.2.3	Transport Installation 2-4
2.3	Electrical Installation 2-6
2.4	Operation 2-8
2.4.1	Tape Loading and Unloading 2-8
2.4.2	On-Line Operating Procedures 2-8
<b>CHAPTER 3 THEORY OF OPERATION</b>	
3.1	Interface 3-1
3.1.1	Input Interface Lines -- Command Cable -- A06/A07 3-2
3.1.1.1	Select 0-7 3-2
3.1.1.2	CON STOP 3-2
3.1.1.3	CON GO 3-2
3.1.1.4	CON REV REM 3-2
3.1.1.5	CON FWD REM 3-2
3.1.1.6	CON ALL HALT 3-2
3.1.1.7	CON PWR UP DLY 3-2
3.1.2	Output Interface Lines -- Command Cable -- A06/A07 3-2
3.1.2.1	Select Echo 3-2
3.1.2.2	Write Echo 3-3
3.1.3	Bi-Directional Interface Lines -- Information Cable -- AB10/AB11 3-3
3.1.3.1	Timing Track (TT) 3-3
3.1.3.2	Mark Track (MT) 3-3
3.1.3.3	Data Tracks (D0-D2) 3-3
3.2	Functional Information 3-3
3.2.1	Read/Write Head 3-3
3.2.2	DEctape Format 3-3
3.3	Local (off-line) Operation 3-5
3.3.1	Forward Tape Motion 3-5