NOVICE SUBSET OF TECO

These commands allow you to do most common editing jobs on all versions of TECO.

MAKE file

Creates a new file (under RT-11, use CREATE command)

Edits an existing file (under RT-11, use EDIT command)

J Moves pointer to beginning of buffer Advances pointer to beginning of next

Advances pointer to end of buffer

Advances pointer to beginning of next
line

Advances pointer n lines

nL Advances pointer n lines
-nL Moves pointer back n lines

OL Moves pointer to beginning of current line
C Advances pointer across one

character
nC Advances pointer across n characters
-nC Moves pointer backwards across n

- nC Moves pointer backwards across n characters
T Types text from current pointer

position to end of current line
nT Types n lines on terminal
HT Types entire content of text buffer

Types current line
Inserts text before current pointer
position

OTT

nK

HK

Itext\$

K Deletes text from current pointer position to end of line

Deletes n lines of text
Deletes entire content of text buffer

D Deletes the character following the pointer

nD Deletes n characters after the pointer

-nD Deletes n characters before the pointer
P Outputs the current page and reads in
the next page

nP Executes the P command n times
A Append the next input page to the

end of the buffer

EX Moves the remainder of the input file
to the output file, closes the output

file, and exits from TECO

Stext\$ Beginning at the current pointer position, searches for the specified text on the current page. The buffer pointer

the current page. The buffer pointer is positioned after the specified text if it is found. If the text is not found, an error message is given and the buffer pointer is left at the beginning of the

Ntext\$ Same as Stext\$ except that the search continues across page boundaries, if necessary, until the string or the end

necessary, until the string or the end of the input file is encountered FStext1\$text2\$ Searches for text1 and, if found, replaces it with text2 pocket guide

NOTATION

TECO-8
TECO-10
TECO-11
TECO-12
TECO-12
TECO-12
TECO-12
TECO-13
TECO-14
TECO-14
TECO-15
TECO-15
TECO-16
TECO-17

↑x represents either (↑x) or the two-character sequence CARET-x (^x)

n represents a numeric value specified by a digit string or TECO command that returns a value

Color Coding

black represents features of all DEC TECO's
[exceptions noted in brackets]
red represents features of TECO-10 only
blue represents features of TECO-11 only

Order No. AV-D530A-TK

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INVOKING TECO

Effective Initial Command

OS/8

R TECO

RUN dev:TECO
MAKE filespec
TECO filespec
EBfilespec\$Y

TECO filespec 1 < filespec 2 ERfilespec2\$EWfilespec1\$Y

TECO [note 1]
MUNG filespec ERfilespec\$YHXYHKMY
MUNG filespec,text ERfilespec\$YHXYHKItext\$MY

RT-11

R TECO RUN dev:TECO

EDIT/TECO filespec EBfilespec\$Y [note 2]

Switches on EDIT Command:

/CREATE EWfilespec\$ /INSPECT ERfilespec\$Y

RSTS/E

TECO [note 1]

RUN \$TECO

RUN dev:TECO[p,pn]

TECO filespec EBfilespec\$Y
TECO filespec1=filespec2 ERfilespec2\$EWfilespec1\$Y

TECO/INSPECTfilespec ERfilespec\$Y
MAKE filespec
MUNG filespec Elfilespec\$
Elfilespec\$

RSX-11

TECO TECO filespec EBfilespec\$Y

TECO filespec1=filespec2 ERfilespec2\$EWfilespec1\$Y

MAKE filespec
MUNG filespec
MUNG filespec,text
MUNG filespec,text
Ltext\$Elfilespec\$

TOPS-10

R TECO

RUN dev:TECO [p,pn] [note 3]
MAKE filespec EWfilespec\$
TECO filespec EBfilespec\$Y
TECO filespec1=filespec2

MAKE filespec1=filespec2 ERfilespec2\$EWfilespec1\$Y

TECO [note 1] MAKE [note 4]

IMMEDIATE MODE EDITING COMMANDS

\$\$ Executes command string <rubout> Deletes last character in command string Exits from TECO [note 5] Deletes current line in command string Deletes the entire command string Types current line of command string <space>

Types entire command string

[not in TECO-10]

IMMEDIATE MODE AIDS

You must type these immediate mode commands as the first command after TECO's prompt.

Types command string up to command that caused an error [note 6]

Types detailed explanation of error

Stores previous command string in Q-register a [note 7] [not in TECO-8]

EXECUTION-TIME COMMANDS

Stops command execution [note 8]

(10 Turns off type out; nullified by a second (+ O)

(†S Freezes terminal output; nullified by a (10) [note 9]

FILE SPECIFICATION COMMANDS

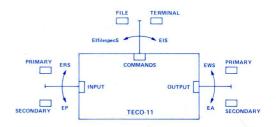
ERfilespec\$ Opens file for input EWfilespec\$ Opens file for output [note 10] EBfilespec\$ Opens file for input and output with backup protection EZfilespec\$ Zeros (non-disk) directory and opens

file for output

nEM Positions Magtape: **EM** Rewinds 1EM Rewinds 3EM Writes EOF Skips one record 6EM 7EM Backspaces one record 8EM Skips to EOT 9EM Rewinds and unloads Writes 3 inches blank tape 11EM Advances one file 14FM 15EM Backspaces one file Sets up wildcard file specification ENfilespec\$ [not in RT-11] Gets next wildcard match into filespec EN\$ buffer. [not in RT-11] :ERfilespec\$ Same as ERfilespec\$ but returns value: - 1 if file found, 0 if file not found :EBfilespec\$ Same as EBfilespec\$ but returns value: - 1 if file found, 0 if file not found :EN\$ Same as EN\$ but returns value: - 1 if next file found, 0 if no more files match FILE TERMINATION COMMANDS AND EXIT FF Closes the output file FC Moves the remainder of the input file to the output file, then closes the out-[not in TECO-10] put file EX Same as EC but exits from TECO ΕK Kills the output file [not in TECO-10] EG\$ Same as EX but re-executes the last compile-class command [note 11] EGcommand\$ Same as EX but executes the operating system command specified [not in TECO-10] **↑C** Exits from TECO [note 12] [not in TECO-10] 1Z Closes output file and exits from TECO **AUXILIARY FILE SUPPORT** [not in RT-11] Switches to secondary input stream

(See illustration below)

EP ER\$ Switches to primary input stream FA Switches to secondary output stream FW\$ Switches to primary output stream Elfilespec\$ Opens file for command input; effective at end of current command string EI\$ Switches command input to terminal and discards remainder of command file after current command string



FILE SPECIFICATIONS [note 3]

System	Input	Output
OS/8	dev:name.ex	dev:name.ex
TOPS-10	dev:name.ext[p,pn]	dev:name.ext[p,pn] <prot></prot>
RT-11	dev:name.ext	dev:name.ext[len]
RSTS/E	dev:[p,pn] name.ext	dev:[p,pn] name.ext <prot></prot>
RSX-11	dev: [p,pn] name.ext;ver	dev:[p,pn] name.ext;ver

FILE SPECIFICATION SWITCHES			
TOPS-10	/GENLSN	Generates line sequence numbers	
	/SUPLSN	Suppresses line sequence numbers	
RSTS/E	/MODE:n	Uses nonstandard open mode	
	/CLUSTERSIZE:n	Specifies output file cluster size	
	/B+	Edits a BASIC-PLUS file	
	/B2	Edits a BASIC-PLUS-2 file (same as /72)	
	/n	Handles BASIC-PLUS continuation character (&) in column n	
RSX-11	/RW	Rewinds before opening file [magtape only]	
	/CR	Implied carriage control	
	/- CR	No (internal) carriage control	
	/FT	FORTRAN carriage control	

INVOCATION SWITCHES

RSTS/E	/SIZE:n /SIZE:+n	starts with nK word editing are starts with extra nK words of
RSX-11	/INC=n	editing area starts with extra nK words of
		editing area

PAGE MANIPULATION COMMANDS

Α	Appends next page of input file to text buffer
:A	Appends next line of input file to text buffer
Y	Same as HKA
PW nPW	Outputs current page and appends a form feed Same as n < PW >
m,nPW	Outputs the characters between text buffer pointer positions m and n (without a form feed)
Р	Outputs the text buffer, clears the buffer, and reads the next page of the input file into the buffer; a form feed is appended to the output file if the last read was terminated with a form feed
nP	Same as n <p></p>
m,nP	Same as m,nPW

BUFF	BUFFER POINTER POSITIONING COMMANDS		
nJ	Moves pointer to immediately following the nth character in the text buffer		
OJ	Moves pointer to beginning of buffer		
J	Same as 0J		
nC	Advances pointer n positions		
C	Same as 1C		
- C	Same as – 1C		
nR	Backs up pointer n positions (same as - nC)		

R	Same as 1R
- R	Same as - 1R

nL Moves pointer to beginning of nth line from

current pointer position

Same as 1L -L Same as - 1L

INSERTION COMMANDS

The pointer is positioned after the inserted text.

Itext\$ Inserts the text specified nI\$ Inserts character whose ASCII code is n <tab>text\$ Inserts specified text preceded by a tab Inserts specified text preceded by a tab ↑Itext\$

Inserts current radix representation of n in n\ text buffer (signed if current radix is deci-

mal, unsigned if octal) [note 13] Same as †SDItext\$

FRtext\$

ARITHMETIC OPERATORS

Operators are evaluated from left to right.

Same as n
Negative of n
Addition [note 14]
Subtraction
Multiplication
Division, remainder discarded
Bitwise logical AND

Bitwise logical OR m#n Performs enclosed operations first (m)

One's complement of n nt_

ARITHMETIC PRECISION

TECO-8	1-2 ¹² ≤n≤2 ¹² -
TECO-11	$-2^{15} \le n \le 2^{15} - 1$
TECO-10	$-2^{35} \le n \le 2^{35} - 1$

1 L

TYPE-OUT COMMANDS		
Types out all the tex pointer position to t nth line from the cur		
Same as 1T		
Same as - 1T		
Types the characters	between pointer	
positions m and n		
Same as (1-n)TnT		
Same as OTT		
Types the text speci-	fied	
Types value of n in decimal (signed)		
followed by < CR>	<lf></lf>	
Types value of n in o	octal [note 15]	
followed by < CR>	<lf></lf>	
Types value of n in o	lecimal (signed)	
	[not in TECO-10]	
Types value of n in o	octal (unsigned)	
	[not in TECO-10]	
Types out the charac	cter whose ASCII	
code is n	[not in TECO-10]	
	Types out all the tex pointer position to tonth line from the cursame as 1T Same as -1T Types the characters positions m and n Same as (1-n)TnT Same as OTT Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR > Types value of n in confollowed by < CR >	

Types a form feed

[not in TECO-8]

DELETION COMMANDS

nD Deletes n characters following the current pointer position -nDDeletes n characters preceding the current pointer position D Same as 1D

- D Same as - D m,nD Same as m.nK nK

Deletes all characters in the text buffer from the current pointer position to the beginning of the nth line from the current pointer position.

K Same as 1K - K Same as - 1K

Deletes all characters in the text buffer m.nK between pointer positions m and n; the

pointer moves to position m

BUFFER POSITIONS

В First pointer position; same as 0

Z Last pointer position; equal to number of

characters in text buffer

Current pointer position; equal to number of characters to the left of the pointer

(m+1)st through nth characters in the text

buffer Н Same as B, Z

m,n

Same as .++S,. 1 Y

SEARCH COMMANDS

Searches that fail leave the pointer at position 0 Successful searches leave pointer after text found

nStext\$ Searches for the nth occurrence of the

specified text (following the pointer), but does not go beyond the end of the

current text buffer

Stext\$ Same as 1Stext\$

-nStext\$ Same as nStext\$ but the search pro-

ceeds backwards

nNtext\$ Same as nStext\$, except that if the

text is not found on the current page. pages are input and output until it is

found

Ntext\$ Same as 1Ntext\$

n_text\$ Same as nNtext\$, except that it does

input only, no output

Same as 1 text\$ text\$

nFStext1\$text2\$ Executes the nStext1\$ command, then deletes text1 and replaces it with text2

FStext1\$text2\$ Same as 1FStext1\$text2\$

nFNtext1\$text2\$

Executes the nNtext1\$ command, then deletes text1 and replaces it with text2

FNtext1\$text2\$ Same as 1FNtext1\$text2\$

nF text1\$text2\$

Executes the n_text1\$ command, then deletes text1 and replaces it with text2

F_text1\$text2\$ Same as 1F_text1\$text2\$

BOUNDED SEARCH

Bounded searches that fail leave the pointer unchanged

m,nStext\$ Same as nStext\$, but the search does not

continue across more than |m|-1

characters.

0.nStext\$ Same as nStext\$, but the pointer position

remains unchanged on search string failure

Same as m,1Stext\$ m.Stext\$ Same as m,-1Stext\$ m.-Stext\$

Same as 1,1:Stext\$ (anchored search) ::Stext\$

COLON MODIFIED SEARCHES

Any search command preceded by a colon (:) modifier returns a value as follows:

- 1 If the search succeeds
- 0 If the search fails

NUMERIC QUANTITIES

0A ASCII code for character following pointer

ASCII code for the (.+n+1)th character in the nA [not in TECO-10] buffer [note 16]

Equal to the value of the digit string (if any) that follows the pointer in the text buffer (interpreted in the current radix [note 13], and optionally signed); pointer is positioned after the digit string. Equal to 0 if no digit string is present.

Operating-system dependent encoding of current ↑B

> RT-11: (((month*32)+day)*32)+year-1972 RSTS/E: ((year-1970)*1000)+day within year RSX-11: ((year-1900)*16+month)*32+day

- 1F Value of console switch register
- ↑H Operating system dependent encoding of time of day

OS/8: 0

RT-11: 0

RSTS/E: minutes until midnight RSX-11: (seconds since midnight)/2

TOPS-10: 60ths of a second since midnight

- Number of characters stored in Q-register q :Qq
- n†Q Number of characters between the buffer pointer and the nth line separator from the current pointer position
 - 1O Same as 11Q
- 1S Negative of length of last insert, string found, or string inserted with G command, whichever occurred last
- **↑T** ASCII code for the next character typed at the terminal
- ASCII code for the character (x) specified 11x

ITERATION AND FLOW CONTROL

-n < commands > Performs the enclosed command string n times: skips the commands if n≤0

< commands> Performs the enclosed command string an indefinite number of times

If n≥0, jumps out of the current n;

iteration field

Jumps out of the current iteration field if the last search executed failed

[note 17]

Defines a position in the command !tag! string with the name, tag

Otag\$ Jumps to the position defined by !tag!; must be in same macro level [note 18]

@ MODIFIER

@ Modifies the next command that takes a text argument to use the delimiter form; text is surrounded by a delimiter (shown here as /) that cannot appear inside the text

The format of the commands becomes:

@nS/text/ @nN/text/ @n /text/ @nFS/text1/text2/ @nFN/text1/text2/ @I/text/ @n1//

@ER/filespec/ [not in TECO-10] [not in TECO-10] @EW/filespec/ [not in TECO-10] @EB/filespec/ @†Ua/text/ [not in TECO-10] @EG/text/ [not in TECO-10] @EG// [not in TECO-10]

@EN/filespec/ @EI/filespec/ @FR/text/ @†A/text/ @!/tag/ @O/tag/ @n†Ua//

CONDITIONAL COMMANDS

n"Acommands" Executes the commands if n is the ASCII code for an alphabetic char-

acter (A-Z or a-z)

[not in TECO-8]

n"Ccommands Executes the commands if n is the ASCII code for a symbol constituent

TECO-8: A-Z, a-z, 0-9 TECO-11: A-Z, a-z, 0-9, . , \$ TECO-10: A-Z, a-z, 0-9, . , \$, %

n"Dcommands" Executes the commands if n is the ASCII code for a digit (0-9)

[not in TECO-8] Executes the commands if n=0

n"Ecommands" n"Fcommands" Executes the commands if n represents FALSE; same as n"Ecommands" n"Gcommands Executes the commands if n>0

n"Lcommands' Executes the commands if n<0 n"Ncommands' Executes the commands if n≠0 n"Rcommands" Executes the commands if n is the

> ASCII code for an alphanumeric (A-Z, a-z, 0-9) [not in TECO-10]

Executes the commands if n repren"Scommands" sents SUCCESS; same as

n"Lcommands"

Executes the commands if n repren"Tcommands" sents TRUE; same as n"Lcommands'

Executes the commands if n repren"Ucommands" sents UNSUCCESSFUL; same as

n"Fcommands"

n"Vcommands" Executes the commands if n is the ASCII code for a lower case alpha-[not in TECO-8] betic (a-z)

n"Wcommands" Executes the commands if n is the ASCII code for an upper case alpha-[not in TECO-8] betic (A-Z)

Same as n"Lcommands" n"<commands' [not in TECO-10]

n">commands' Same as n"Gcommands'

[not in TECO-10]

Q-REGISTER LOADING [note 19]

Stores integer n in Q register q nUa Adds 1 to the number in Q-register q %q and returns this value

Adds n to the number in Q-register q n%q and returns this value [note 20]

[not in TECO-10] Stores, in Q-register q, all characters from

nXq the current pointer position to the beginning of the nth line from the current pointer position

m.nXa Stores, in Q-register q, all characters between text buffer pointer positions m

> and n Same as 1Xq

Xq Same as - 1Xq - Xa

Same as nXq, but appends to Q-register n:Xq m,n:Xq Same as m,nXq, but appends to Q-register

:Xq Same as 1:Xq -: Xq Same as - 1: Xq

:]q

†Uqtext\$ Stores the specified text in Q-register q [not in TECO-10]

Same as † Ugtext\$, but appends to

:†Uqtext\$ Q-register

Stores character whose ASCII code is n n†Ua\$

in Q-register q Appends character whose ASCII code is n:†Uq\$

n to contents of Q-register q Pops from the Q-register push-down list] q

into Q-register q [note 21] [not in TECO-8]

Same as] q, but returns value (-1 if

successful, 0 if push down stack was empty)

Q-REGISTER RETRIEVAL [note 19]

Returns the numeric value stored in Qq Q-register q

Places the text in Q-register q into the text Gq buffer before the current pointer position Types the contents of the text stored in :Gq

Q-register a on the terminal

[not in TECO-10]

Executes the text in Q-register q as a Mq command string

nMq Executes the text in Q-register q as a command string and uses n as a numeric argument for the first command executed

m,nMq	Executes the text in Q-register q as a command string and uses m,n as a pair of numeric arguments for the first command executed
[q	Pushes the contents of Q-register q onto the Q-register push-down list [note 21]
G*	Places the text from the filespec buffer into the text buffer before the current pointer position
:G*	Types the contents of the filespec buffer on the terminal
G_	Places the text from the search string buffer into the text buffer before the current pointer position
:G_	Types the contents of the search string buffer on the terminal

RETRIEVING MODE CONTROL FLAGS

Flag	Name		Initial Value
↑E	Form feed flag	0	
↑N	End-of-file flag	0	
ΛX	Search Mode Flag	0	
ED	Edit level flag	0	[RT-11]
		0	[RSTS/E]
		1	[RSX-11]
EH	Help level flag	2	[TECO-10]
		0	[other systems]
EO	Version number flag	2	[TECO-10]
		5	[TECO-8]
		29	[TECO-11]
ES	Search verification flag	0	
ET	Terminal mode flag		

TECO-10:	0				
TECO-8:	0 if SET TTY NOSCOPE				
	2 if	SET TTY SCOPE			
TECO-11:					
Bit Value		Initial Value			
1	0				
2	1	if terminal is a scope			
	0	if terminal is not a scope			

4	1	if terminal has lower case
	0	if terminal does not have lower case input
8	0	
16	0	
32	0	
64	0	
128	1	before TECO's prompt
	0	after TECO's prompt
256	0	i i i i i i i i i i i i i i i i i i i
512	1	if terminal is VT52 and VT52 support is available
	0	if VT52 support is not available
1024	1	if VT11 is present and
		VT11 support is available
	0	if VT11 support is not

available

EU Upper/lower case flag

EV

-1 if terminal supports lower case

0 if terminal does not support lower case [note 22]

Edit verify flag

SETTING MODE CONTROL FLAGS

Command	Bit Value		Meaning
nED	1	0	† in search arguments means next character is CTRL
		1	↑ in search arguments means ↑
	2	0	disables Y or if data
		1	would be lost no Yank protection
nEH	1,2	0	same as 2
		1	types 3-letter error code only
		2	types error code and shor message
		3	types error code and long
	4	1	Simulates ? after error
nEO		Allo to w	ws EO version n features ork

m*256+nES

if n=0, nothing is typed out after searches; if n=-1, an effective mV command is executed when a search is completed. If n is between 1 and 31, < LF> represents the pointer; if n is between 32 and 126, it is ASCII code for character to represent the pointer. [TECO-10 ignores m] . If m \leq 0, m is treated as 1.

[-	7

Bit Value

Sets terminal characteristics [note 23]

Meaning if 1

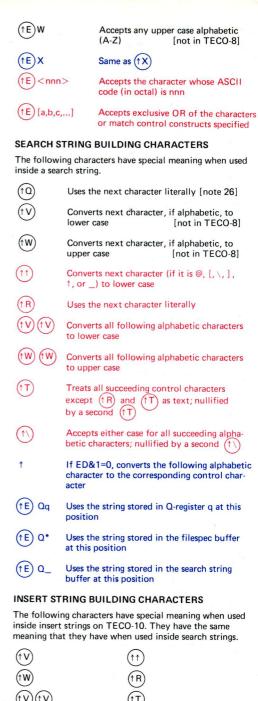
no case flagging on output

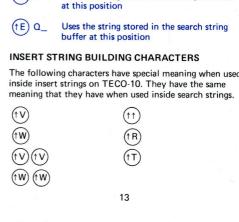
[note 22]

		Wicarining II I
	1	type-out is in image mode
	2	terminal is a scope
	4	reads lower case
	8	↑T reads with no echo
	16	cancels (†O) on type-out
	32	↑T reads with no wait
		(↑T returns - 1 if no input)
	64	detached flag
	128	aborts on error
	256	truncates output to terminal width
	512	terminal is VT52 and VT52 suppor
		is available
	1024	VT11 is present and VT11 support
		is available
	32768	Traps (C)'s (Reset if (C) typed)
nEU		0 flags lower case characters
		>0 flags upper case characters

nEV		Same as nES but lines to be viewed appear before TECO's prompt				
n↑X	0 1	either case matches in searches exact case matches required [not in TECO-8]				
RADIX CONTROL [note 13]						
↑O Switches to octal radix [note 24] ↑D Switches to decimal radix [not in TECO-10						
TRACE CONTROL						
?	Enters trace m	node; nullified by a 2nd ?				
VT52	SCOPE CONTI	ROL				
- 1W OW nW	W Resets cursor line to default position					
VR12,	VR12, VT11, or VS60 SCOPE CONTROL [not in TECO-10]					
W nW	The second secon					
CASE CONTROL						
↑V ↑W						
MATCH CONTROL CONSTRUCTS						
(Match control constructs are valid inside search strings)						
(† X)	A	Accepts any character				
(†S)		Accepts any non-alphanumeric eparator [note 25]				

(TX)	Accepts any character
(†S)	Accepts any non-alphanumeric separator [note 25]
(† N)	Accepts any character except a character matched by the following character (or match control construct
↑E A	Accepts any alphabetic character (A-Z or a-z)
(†E)C	Accepts any symbol constituent TECO-11: A-Z, a-z, 0-9, . , \$
(†E)D	Accepts any digit (0-9) [not in TECO-8]
↑E Gq	Accepts any character in Q-register q
↑E) L	Accepts any line terminator (<lf>, <vt>, <ff>) [not in TECO-8]</ff></vt></lf>
↑E R	Accepts any alphanumeric (A-Z, 0-9)
(†E)S	Accepts any non-null string of spaces and/or tabs [not in TECO-8]
(†E)V	Accepts any lower case alphabetic (a-z) [not in TECO-8]





ERROR MESSAGES

ERROR	MESSAGES
Code	Explanation
?ARG	Improper arguments
?BAK	Cannot delete old backup file
?BNI	> not in an iteration
?COR	Same as ?MEM
?CCL	CCL not found or EG argument too big
?COS	Contradictory output switches
?CPQ	Cannot pop Q-register
?DEV	Invalid device
?DIO	Directory I/O error
?DTB	Delete too big
?EBD	Bad EB device Bad EB filename
?EBF ?EBO	Same as ?OFO
?EBP	EB illegal because of protection
PEEE	Unable to read error message file
?EMA	EM with illegal argument
?EMD	EM with no input device open
?ENT	Enter error
?EOA	Bad argument to EO
?ERR	RSTS/E monitor call failed
?FER	File error
?FNF	File not found
?FUL	Output command would have overflowed
21.45	device (In TECO-10, same as ?NRO)
?IAB	Invalid nesting of < > or ()
?ICE	Illegal CTRL/E command in search argument
?ICT ?IDV	Illegal control character in text argument Bad input device
?IEC	Illegal character after E
?IEM	Re-init failure after EM
?IFC	Illegal character after F
?IFN	Bad filename
?IIA	Illegal insert argument
?ILL	Illegal command
?ILN	Same as ?OCT
?ILR	Cannot lookup input file to rename it
?INP	Input error
?10S	Illegal character in I/O switch
?IQC	Illegal Character after "
?IQN ?IRB	Illegal Q-register name
?IRN	Cannot rename input filename Failure in rename process
?ISA	Illegal search argument
?ISS	Illegal search string
?MAP	Missing '
?MEE	Macro ending with E
?MEF	Macro ending with F
?MEM	Storage capacity exceeded
?MEO	Macro ending with O
?MEQ	Macro ending with "
?MEU	Macro ending with U
?MFN	Missing filename
?MIQ ?MLA	Missing Q-register name Same as ?BNI
?MLP	Missing (
?MRA	Missing >
?MRP	Missing)
?MUU	Macro ending with ↑↑
?NAB	No argument before ↑_
?NAC	TECO-11: No argument before ,
	TECO-8: Negative argument to ,
?NAE	No argument before =
?NAI	No altmode after nI

ERROR MESSAGES (Cont.)

ERROR MESSAGES (Cont.)						
Code	Explanation					
?NAP	TECO-11: Same as ?MLP TECO-8: Negative or 0 argument to P					
?NAQ	No argument before "					
?NAS	TECO-11: No argument before ; TECO-8: Negative or 0 argument to search					
?NAU	No argument before U					
?NAY	Numeric argument with Y					
?NCS	No command string seen prior to *q					
?NFI	No file for input					
?NFO	No file for output					
?NNQ	No number in Q-register					
?NRO	No room for output					
?NTQ	No text in Q-register					
?NYI	Command not yet implemented					
?OCT	8 or 9 in octal digit string					
?ODV	Output device not available					
?OFO	Output file already open					
?OLR	Cannot lookup output file to rename it					
?OUT	Output error					
?PAR	Confused use of parentheses					
?PDO	Push-down list overflow					
?POP	Attempt to move pointer off page					
?PPN ?QMO	Illegal PPN					
?RNO	Q-register memory overflow					
?SAL	Cannot rename output file Second argument less than first					
?SNA	Initial search with no argument					
?SNI	; not in an iteration					
?SRH	Search failure					
?STC	Search string has too many characters					
?STL	Search string too long					
?TAG	Missing tag					
?TAL	Two arguments with L					
?TTL	Tag too long					
?TTY	Illegal TTY device					
PUCA	Unterminated ↑A command					
PUEA	Unimplemented EA					
?UEI	Unimplemented EI					
PUEN.	Unimplemented EN					
PUEP	Unimplemented EP					
PUFS	Macro ending with unterminated file select					
PUIN	Unterminated insert command					
PUIS	Undefined I/O switch					
PUSR	Unterminated search command					
PUTC	Unterminated command					
PUTG	Unterminated tag					
MTUS	Unterminated macro					
OUUS	Illegal UUO					
WLO	System device is write locked					
YAB	Execution aborted by ↑C					
YCA	Y command aborted					
nnn	RSX-11 monitor call failed					

OCTAL AND DECIMAL ASCII CODES

OCTAL AND DECIMAL ASCII CODES							
chr	OCT	DEC	chr	OCT	DEC		
nul	000	000	@	100	064		
↑A	001	001	Α	101	065		
↑B	002	002	В	102	066		
↑C	003	003	С	103	067		
↑D	004	004	D	104	068		
↑E	005	005	E	105	069		
↑F	006	006	F	106	070		
↑G	007	007	G H	107 110	071 072		
↑H tab	010 011	008 009	7	111	072		
If	012	010	j	112	074		
vt	013	011	K	113	075		
ff	014	012	L	114	076		
cr	015	013	M	115	077		
↑N	016	014	N	116	078		
↑O	017	015	0	117	079		
↑P	020	016	Р	120	080		
tΩ	021	017	Q	121	081		
↑R	022	018	R	122	082 083		
↑S	023 024	019 020	S T	123 124	083		
↑T ↑U	024	020	ΰ	125	085		
↑V	026	022	V	126	086		
↑W	027	023	w	127	087		
tΧ	030	024	X	130	088		
†Y	031	025	Y	131	089		
↑Z	032	026	Z	132	090		
esc	033	027	[133	091		
fs	034	028	1	134	092		
gs	035	029]	135	093		
rs	036	030	1	136	094		
us	037	031	_	137 140	095 096		
sp	040	032 033		141	096		
!	041 042	033	a b	142	098		
#	042	035	c	143	099		
\$	044	036	ď	144	100		
%	045	037	е	145	101		
&	046	038	f	146	102		
,	047	039	g	147	103		
(050	040	h	150	104		
*	051	041	į	151	105		
	052	042	j	152	106		
+	053 054	043 044	k I	153 154	107 108		
_	055	045	m	155	109		
	056	046	n	156	110		
/ 0	057	047	0	157	111		
Ó	060	048	р	160	112		
1	061	049	q	161	113		
2	062	050	r	162	114		
3	063	051	S	163	115		
4	064	052	t	164	116		
5	065	053	u	165	117		
6	066	054	٧	166	118		
7 8	067	055	w	167 170	119 120		
9	070 071	056 057	X	170	121		
	071	058	y 7	172	122		
	073	059	z {	173	123		
<	074	060	j	174	124		
=	075	061	}	175	125		
: ; < = > ?	076	062	~	176	126		
?	077	063	del	177	127		

NOTES

- Re-executes last TECO command. Ignores filespec2, if present on previous command
- [2] /TECO switch not necessary if SET EDITOR TECO command has been previously specified
- [3] SFD's allowed in TOPS-10
- [4] Re-executes last MAKE command
- [5] TECO under RSTS/E and OS/8 requires two

 (tC) s. (tC) is not an immediate mode
 command in RT-11 and RSX-11
- [6] TECO-10 types the last 10 characters of the command string before the error occurred
- [7] Not an immediate mode command in TECO-10 (execution is deferred until next wake-up character). In TECO-8, the immediate mode command (15) is the same as *Z
- [8] Two (†C) s may be necessary on systems that support type-ahead
- [9] Only if feature is enabled in the operating system
- [10] TECO-10 closes any previous file.
- [11] Not in RSTS. TECO-10 does not require \$
- [12] On TECO-11, ↑C in a macro returns control to TECO's prompt
- [13] TECO-10 has no general octal radix mode
- [14] In TECO-10, a space between two numbers also acts as an addition
- [15] TECO-10 prints signed result; TECO-8 and TECO-11 print unsigned result
- [16] On TECO-10, nA is the same as 0A
- [17] Must immediately follow search in TECO-11
- [18] Cannot jump to before start of current iteration in TECO-8 or TECO-11
- [19] TECO-10 stores either text or numeric data (but not both simultaneously) in a single area within the Q-register
- [20] Same as 1%q in TECO-10
- [21] Arguments "pass through" this command in TECO-11
- [22] On TECO-10, no case flagging occurs if the terminal supports lower case, regardless of state of EU flag
- [23] TECO-10 uses only bit value 1, TECO-8 uses only bit values 1, 2, and 8
- [24] In TECO-10, †O must be followed by a digit string and the octal radix mode applies only to this string
- [25] TECO-10 allows begin of buffer, ., \$, and % to match
- [26] Cannot quote \$ on TECO-10