## TRS-80 Pocket Computer QUICK REFERENCE CARD

		1121		TOL V	שוחט
In- struc- tion	Abbre- viation	Usability in RUN and DEF modes	Pro- gram- mabil- ity	Example	Note
_		Yes	Yes	A=10	
١.		Yes	Yes	A=B+C	l
1 -	ł	Yes	Yes	A=B-C	
		Yes	Yes	A=B+C	
$\perp$		Yes	Yes	A=B/C	
'^		Yes	Yes	A=B∧C	
$\perp$		Yes	Yes	A=(B+C)/	
				D	
-		Yes	Yes	IF A≖B	
>		Yes	Yes	IF A>B	
>=		Yes	Yes	IF A>=B	
<		Yes	Yes	IF A <b< td=""><td></td></b<>	
<=		Yes	Yes	IF A<=B	
<>		Yes	Yes	IF A<>B	≠(Not equal)
SIN	SI.	Yes Yes	Yes	A=SIN B	
COS	TA.	Yes	Yes	A≃COSB A≕TANB	
ASN	AS.	Yes		A=ASN B	
ACS	AC.	Yes	Yes	A=ACS B	
ATN	AT.	Yes	Yes	A=ATN B	
LOG	LO.	Yes	Yes	A=LOG B	
					logarithm
LN '		Yes	Yes		Natural logarithm
EXP	EX.	Yes	Yes	A=EXPB	A=eB
√	ĺ	Yes	l	A=\	
DMS	DM.	Yes	Yes		Conversion to sexagesi- mal notation
DEG		Yes	Yes	A=DEG B	Conversion to decimal notation
INT		Yes	Yes	A≈INT B	Obtains integer with- in a range does not ex- ceed integer portion of B.
ABS	AB.	Yes	Yes	A=ABSB	Obtains the absolute value A =  B .
SGN	SG.	Yes	Yes	A≃SGN B	If B>0, A=1 B=0, A=0 B<0, A=1
AREAD	<b>A</b> .	No	Yes	AREAD A	Display (shown be- fore execu- tion) is read into A Only when used in the

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In- struc- tion	Abbre- viation	Usability in RUN and DEF modes	Pro- gram- mabil- ity	Example	Note
					first line of the execut- ing program in the DEF mode).
BEEP	В.	No	Yes .	BEEPA	Sound buz- zer as many times as A.
CLEAR	CL.	Yes	Yes	CLEAR	Clears all data variables.
DE- GREE	DEG.	Yes	Yes	DEGREE	Sets the angle mode to DEG (decimal notation).
END	E.	No	Yes	END	Terminates the program execution,
FOR	F.	No	Yes	100	Increments by 2 from A= 0 to A=10, during which time pro- gram lines up to NEXT A are repeated. Repeats the lines 10 through 100 for 6 times as A=0 ad- vances to
бото	G.	No	Yes	NEXT A 10 GOTO	2, 4,, 10 . Jumps to line
GO- SUB	GOS.	No	Yes	10 GO- SUB 100	number 100. Jumps to subroutine in line number 100
GRAD		Yes	Yes	GRAD	Sets the angle mode to GRAD.
(F		No	Yes	10 IF A=B	Decision in- struction, successive statement is executed when the IF statement is statisfied, or executes the next line when the IF statement is not statisfied.
INPUT	1.	No	Yes	INPUT A	Data input through the keyboard
LET	LE.	No		LET A= 10 LET A\$= "TRS-80"	Substitute instruction (can be omitted except immediately after the IF statement).
NEXT	N.	No -		NEXTA	Used with FOR (see FOR).
PAUSE	PA.	No	Yes	PAUSE A	Holds the

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In- struc- tion	Abbre- viation	Usability in RUN and DEF modes	Pro- gram- mabil- ity	Example	Note
					display for a period of 0.85 second.
PRINT	P.	No /	Yes	PRINT A, B PRINT A, B, C	Display A. Displays A and B at left and right Displays A, B and C in succession from the left.
RADI- AN	RA.	Yes .	Yes	RADIAN	Set the angle mode to RAD (radian).
REM		No	Yes	REM "INTER- EST"	A comment statement (is not executed)
RE- TURN	RE.	No	Yes	RETURN	End of sub- routine. The program ex- ecution re- turns to ex- ecute the statement next to the GOSUB in- struction
STEP	STE.	No	Yes		See FOR.
STOP	S.	No	Yes	STOP	Suspends program ex- ecution.
THEN ,	т.	No.	Yes	THEN 60	Written after the IF in- struction to indicate jump line number.
USING	U,	No	Yes	PRINT USING "###_# #"; A	Designates the format in relation with PRINT instruction. In this example, A is designated with 3 digits of integer and 2 digits after the decimal point.
CONT	c.	Yes	No	CONT	Use to continue execution after a STOP instruction, BREAK key, or in debug mode.
		Yes	No	DEBUG	Direct the
DEBUĞ	D.	Yes			program ex- ecution under the Debugmode.
DEBUĢ LIST	D.	Only applicable for PRO mode.		LIST LIST 100	ecution

<b>a.</b> (5.					
In- struc- tion	Abbre- viation	Usability in RUN and DEF modes	Pro- gram- mabil- ity	Example	Note
		(Executable also in PRO mode.)			tion of the flexible me mory dis played (number of steps and data memo ries).
NEW		Yes (Execut- able also in PRO mode.)	No	NEW	Clears the program and data memo ries.
RUN	R.	Yes	No	RUN	Starts pro- gram execu tion
				RUN 100	Starts pro- gram execu- tion from line number 100.
CSAVE	CS.	Yes (Execut- able also in PRO mode.)	No	CSAVE "File name"	Stores com puter progra on tape with its file name.
CLOAD	CLO.	Yes (Execut- able also in PRO mode.)	No	CLOAD "File name"	Program re corded on tape with the file name is transferred to the Com- puter.
CLOAD?	CLO.?	Yes (Executable also in PRO mode.)	No	CLOAD? "File name"	Verifies pro- gram on tape with the pro- gram in the Computer (with same file name).
CHAIN	сн.	No .	Yes	CHAIN "File name" CHAIN "File name" 10	The program on tape specified by the file name is transferred to the Computer and executed. In 2nd exemple program is trans ferred after line number 10 and executed.
PRINT#	P. #	Yes	Yes	PRINT# "File name" PRINT# "File name", C	The contents of the data memory (after C) is recorded or the tape with its file name.
INPUT#	l.#	Yes	Yes	INPUT # "File name" INPUT # "File name", C	The data stored on tape corresponding to the file name is transferred to the data memory are in the Computer (after C).

## **Control Keys**

moves cursor right.

- · executes playback instruction.
- recalls cursor, when program is displayed in PRO or RESERVE mode.

moves cursor left.

- executes playback instruction.
- · recalls cursor, when program is displayed

in PRO or RESERVE mode.

SHFT INS • inserts space ( : symbol) between the address (N) indicated by cursor and the preceding address (N-1).

- SHFT DEL deletes character indicated by cursor.
  - Ti displays the preceding program line in PRO mode.
  - T . displays the next program line in PRO mode.

ON • turns power on.

- breaks (temporarily interrupts) program being executed. e clears the Computer completely (resets
- after error message) MODE • changes the mode (DEF, RUN, PRO,

RESERVE). SPC • space key.

## **Error Messages**

Error code	Kinds of error	Description
	Syntax error     Arithmetic operation error     Memory designation error	When the absolute value of the result exceeds 1 × 10 <sup>100</sup> or when the divisor is 0.  When the numerical value has been defined in the memory designated as a character variable, and vice versa.
2	Line error	<ul> <li>When the line or label specified by GOTO, GOSUB, RUN, DEBUG, or LIST statement does not exist.</li> </ul>
3	Level error	When level exceeds 4 in a GOSUB or FOR/ NEXT statement. RETURN instruction without GOSUB state- ment. NEXT statement with- out FOR.
	Out-af-memory	Entering a program longer than available memory space.  When a non-existing dimensioned memory location is designated.
5	Magnetic tape control error	When an error is generated during the execution of the magnetic tape control instruction (such as verify error, check-sum error).
6	Format error	When data can not be displayed with the given format by the PRINT or PAUSE statement during execution of the program.

RADIO SHACK A DIVISION OF TANDY CORPORATION

U.S.A., FORT WORTH, TEXAS 76102 CANADA: BARRIE. ONTARIO L4M 4W5 TANDY CORPORATION

AUSTRALIA 280 316 VICTORIA ROAD RYDALMERE, N.S.W. 2116

BELGIUM PARC INDUSTRIEL DE NANINNE 5140 NANINNE BILSTON ROAD WEDNESBURY WEST MIDLANDS WS10 7JN