TEXAS INSTRUMENTS  
Calculator Products Division

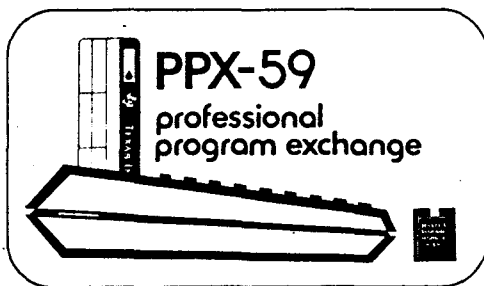
## Submission Abstract

Program Title LARGE ALPHANUMERICS				Rev.	
Abstract of Program  This program will print 47 different, one-inch-high alphanumeric characters. Each character is called by a SBR. The SBR name has been chosen for a specific association with the character it stands for. This to facilitate memorizing by the user.					
User Benefits:  Can be used to make banners, signs and nameplates, smaller in size than the ones made with program 908010A. Besides the alphabet, it prints all digits, the arithmetic signs and some punctuation marks.					
Category Name <u>90</u>	Required Progs. _____	Prog. Steps <u>592</u>	Card Sides <u>4</u>	PC-100A Needed <input checked="" type="checkbox"/> Library Module ID <input type="checkbox"/>	
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## IMPORTANT

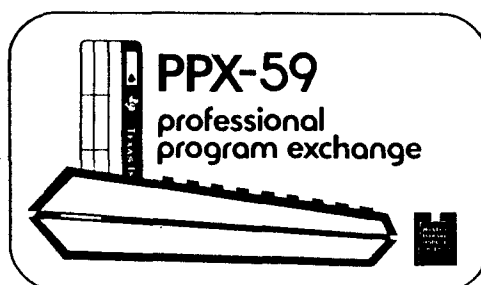
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TEXAS INSTRUMENTS  
Calculator Products Division

## Program Description

Program Title: Large alphanumerics	Rev.
Method, Equations, Sketches, Limitations, References, Error Recovery:	
<p>Because of the large number of SBRs that can be called from the keyboard, it was decided to assign an SBR to each character. Most SBRs have a definite association with the character. Either the begin letter, or some other prominent letter in the SBR word will remind you of the letter to be formed.</p> <p>Some characters pose a real problem: H for example, until it was found IxI (absolute x) resembles H a little. J also was difficult. So it had to do with 2nd INV, meaning: a second meaning of I. (through the ages and the several languages I and J have been used interchangeably, anyway)</p> <p>K gets SBR CLR (of course) , Q had to do with "square root"(why not ?), and for Z I couldn't find anything. I could have used 2nd Dsz, but that would have meant to give up a "2nd Digit", the 2nd 0, and for "zero" I still needed a Z. So...</p> <p>Using 2nd Exc for the exclamation mark and 2nd Int for the interrogation mark, in my humble opinion, is clever.</p> <p>In all, I hope it will help you in memorizing the SBRs. It sure beats trying to memorize a code or long number.</p>	
<input type="checkbox"/> See Continuation Sheet	



## User Instructions

Program Title				
Large Alphanumerics				
Partition (OP 17) Parenthesis Levels				
799 .19				t Register <input type="checkbox"/>
Angular Mode (if applicable)	SBR Levels		Absolute Addresses <input type="checkbox"/>	
Library Module ID		Disturbs Pending Operations <input type="checkbox"/>		

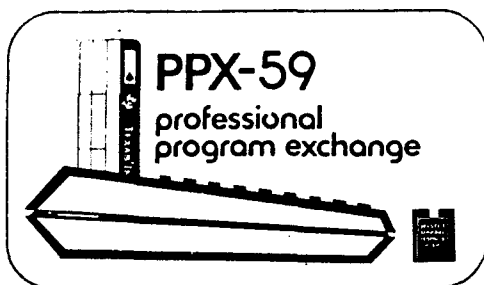
LABELS (Op 08) All used									
INV	Inx	CE	CLR	CE	x <sup>2</sup>				
√	1/x	STO	RCL	SUM	Y <sup>n</sup>				
EE	(	)	+	GTO	X				
SBR	-	RST	+	R/S	.				
+/-	=	CLR	INV	log	CP				
tan	Pgm	P=1	sin	cos	CMS				
Exc	Pid	1x1	Eng	fix	Int				
Dep	Pause	x=1	Mod	Op	Reg				
1bl	x=1	I+	x	Grid	St.Hg				
11lg	EMS	π	List	Write	Usr				
Adv	Pit								

## USER DEFINED KEYS

A  
B All used as  
C labels.  
D  
E  
A'  
B'  
C'  
D'  
E'

FLAGS	0	1	2	3	4	5	6	7	8	9
-------	---	---	---	---	---	---	---	---	---	---

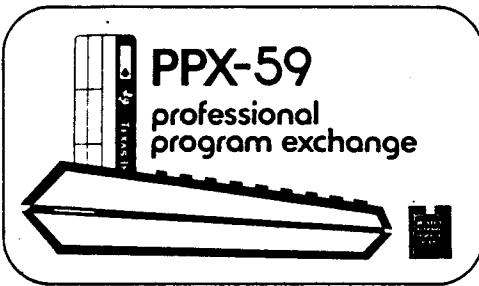
STEP	PROCEDURE	ENTER	PRESS			OUTPUT/MODE (see legend below)	DATA REGISTERS (INV) List
1	Read 2 cards, all 4 sides.	2	2nd	OP	17	(partition)	0
2	To produce an alphanumeric character		SBR	x	x		1 Registers 00 to
	SEE LIST OF ALL SBRs AND THE CORRESPONDING CHARACTERS ON THE REVERSE SIDE OF THIS PAGE.						2 17 used to store
3	To produce a space between words		SBR	2nd	Adv		3 print codes.
	NOTE: BE SURE THE CALCULATOR IS IN FREE FLOATING POINT FORMAT. PRESS INV 2nd Fix. ( if needed press INV EE and INV 2nd Eng)						4
							5
							6
							7
							8
							9
							0
							1
							2
							3
							4
							5
							6
							7
							8
							9



# TEXAS INSTRUMENTS Calculator Products Division

Continued From: ☐ Program Description ☒ User Instructions ☐ Stmt. of Example

Program Title: LARGE ALPHANUMERICS				Rev.	
CHARACTER	PRESS	CHARACTER	PRESS	CHARACTER	PRESS
A	SBR 2nd Rad	V	SBR 2nd log	:	SBR x:t
B	SBR SBR	W	SBR 2nd Write	!	SBR 2nd Exc
C	SBR CE	X	SBR $x^2$	?	SBR 2nd Int
D	SBR 2nd Deg	Y	SBR $Y^x$	(	SBR (
E	SBR EE	Z	SBR RST	)	SBR )
F	SBR 2nd Fix	1	SBR 2nd 1	Space between words	
G	SBR GTO	2	SBR 2nd 2		
H	SBR 2nd 1xI	3	SBR 2nd 3		SBR 2nd Adv
I	SBR INV	4	SBR 2nd 4		
J	SBR 2nd INV	5	SBR 2nd 5		
K	SBR CLR	6	SBR 2nd 6		
L	SBR 1nx	7	SBR 2nd 7		
M	SBR 2nd CMs	8	SBR 2nd 8		
N	SBR 2nd Eng	9	SBR 2nd 9		
O	SBR STO	0	SBR 2nd 0		
P	SBR 2nd Prd	.	SBR .		
Q	SBR $\sqrt{x}$	+	SBR +		
R	SBR RCL	X	SBR X		
S	SBR SUM	+	SBR +		
T	SBR 2nd tan	-	SBR -		
U	SBR 2nd Pause	=	SBR =		



# TEXAS INSTRUMENTS Calculator Products Division

## Sample Problem

### Statement of Example

Let's write the word "TEXAS".

See also the reverse of this page and the Continuation Sheet for all characters that can be formed by means of the SBRs typed under each one.

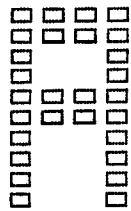
☐ See Continuation Sheet

ENTER	PRESS	OUTPUT/MODE (see legend below)	COMMENT
	SBR 2nd tan	<pre>       00       00 0000000000       00       00 </pre>	
	SBR EE	<pre> 0000000000 00  00  00 00  00  00 00      00 </pre>	
	SBR X <sup>2</sup>	<pre> 00      00   000000     00   000000 00      00 </pre>	
	SBR 2nd Rad	<pre> 0000000000       00  00       00  00 0000000000 </pre>	
	SBR SUM	<pre> 00  000000 00  00  00 00  00  00 000000 </pre>	
	Mo	use )	

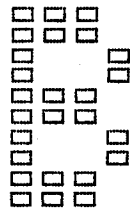
PPX-59 Professional Program  
Exchange  
Sample Problem (cont'd)

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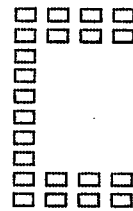
9.08.045  
For TI use only



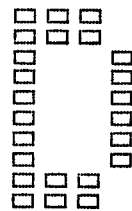
2nd Rad



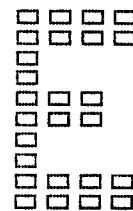
SBR



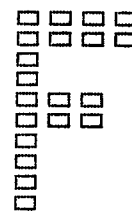
CE



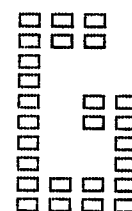
2nd Deg



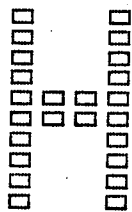
EE



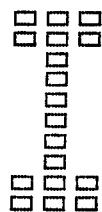
2nd Fix



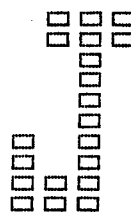
GTO



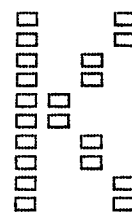
2nd IxI



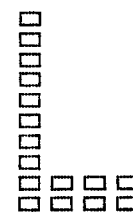
INV



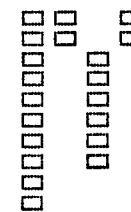
2nd INV



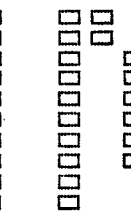
CLR



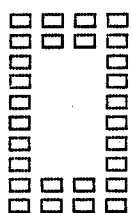
1nx



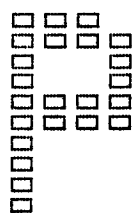
2nd CMs



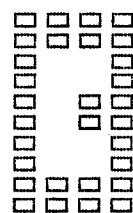
2nd Eng



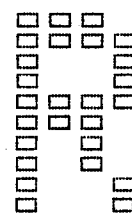
STO



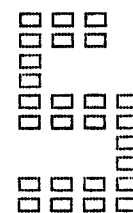
2nd Prd



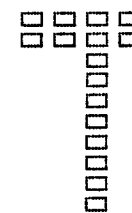
Vx-



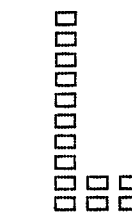
RCL



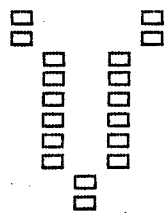
SUM



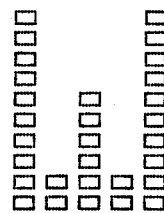
2nd tan



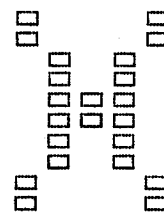
2nd Pause



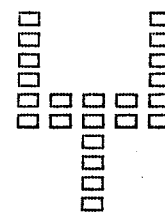
2nd log



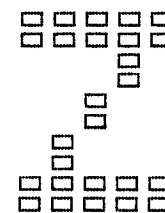
2nd Write



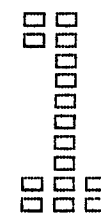
$x^2$



$y^x$

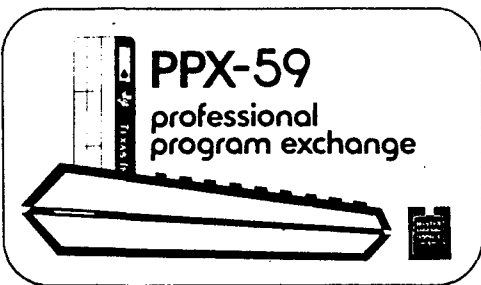


RST



2nd 1

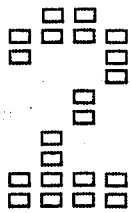
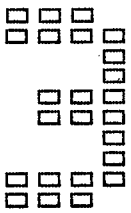
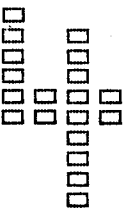
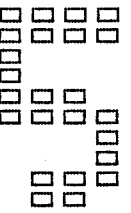
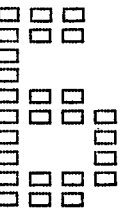
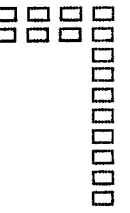
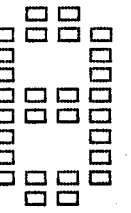
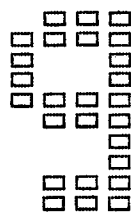
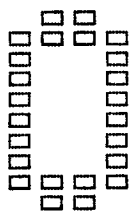

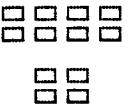
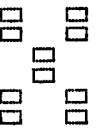
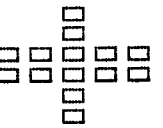
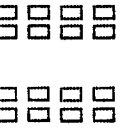
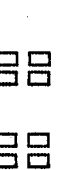
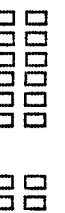
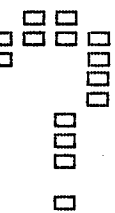
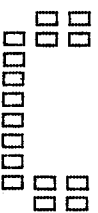
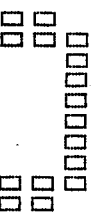
Modes: (n) - Printed only (n) - Displayed Briefly (Pause)  
n - Printed and displayed



# TEXAS INSTRUMENTS Calculator Products Division

## Continuation Sheet

Continued From:   ☐ Program Description   ☐ User Instructions   ☒ Stmt. of Example

Program Title: <b>Large Alphanumerics</b>						Rev.	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%; text-align: center;">   2nd 2 </div> <div style="width: 33%; text-align: center;">   2nd 3 </div> <div style="width: 33%; text-align: center;">   2nd 4 </div> <div style="width: 33%; text-align: center;">   2nd 5 </div> <div style="width: 33%; text-align: center;">   2nd 6 </div> <div style="width: 33%; text-align: center;">   2nd 7 </div> <div style="width: 33%; text-align: center;">   2nd 8 </div> </div> <div style="display: flex; flex-wrap: wrap; margin-top: 20px;"> <div style="width: 33%; text-align: center;">   2nd 9 </div> <div style="width: 33%; text-align: center;">   2nd 0 </div> <div style="width: 33%; text-align: center;">   . </div> <div style="width: 33%; text-align: center;">   ÷ </div> <div style="width: 33%; text-align: center;">   X </div> <div style="width: 33%; text-align: center;">   + </div> <div style="width: 33%; text-align: center;">   = </div> </div> <div style="display: flex; flex-wrap: wrap; margin-top: 20px;"> <div style="width: 33%; text-align: center;">   x:t </div> <div style="width: 33%; text-align: center;">   2nd Exc </div> <div style="width: 33%; text-align: center;">   2nd Int </div> <div style="width: 33%; text-align: center;">   ( </div> <div style="width: 33%; text-align: center;">   ) </div> </div>							

# PPX-59 Professional Program Exchange

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908045

For TI use only

LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS
000	98	ADV	<i>SUBROUTINES OFTEN CALLED BY THE PROGRAM ITSELF. SITUATED IN THE BEGINNING OF THE PROGRAM, FOR SPEED.</i>	054	12	B		108	92	RTN	
001	91	R/S		055	92	RTN		109	76	LBL	
002	76	LBL		056	76	LBL		110	36	PGM	
003	11	A		057	18	C		111	43	RCL	
004	69	DP		058	43	RCL		112	14	14	
005	02	02		059	09	09		113	11	A	
006	92	RTN		060	11	A		114	43	RCL	
007	76	LBL		061	25	CLR		115	00	00	
008	12	B		062	12	B		116	12	B	
009	69	DP		063	92	RTN		117	92	RTN	
010	03	03		064	76	LBL		118	76	LBL	
011	69	DP		065	19	D		119	35	1/X	
012	05	05		066	43	RCL		120	43	RCL	
013	92	RTN		067	06	06		121	06	06	
014	76	LBL		068	11	A		122	11	A	
015	13	C		069	43	RCL		123	43	RCL	
016	43	RCL		070	13	13		124	00	00	
017	00	00		071	12	B		125	12	B	
018	11	A		072	92	RTN		126	92	RTN	
019	12	B		073	76	LBL		127	76	LBL	
020	92	RTN		074	10	E		128	86	STF	
021	76	LBL		075	43	RCL		129	43	RCL	
022	14	D		076	10	10		130	02	02	
023	43	RCL		077	11	A		131	11	A	
024	09	09		078	43	RCL		132	43	RCL	
025	11	A		079	11	11		133	08	08	
026	43	RCL		080	12	B		134	12	B	
027	08	08		081	92	RTN		135	92	RTN	
028	12	B		082	76	LBL		136	76	LBL	
029	92	RTN		083	38	SIN		137	90	LST	
030	76	LBL		084	43	RCL		138	43	RCL	
031	15	E		085	01	01		139	00	00	
032	43	RCL		086	11	A		140	11	A	
033	14	14		087	43	RCL		141	43	RCL	
034	11	A		088	02	02		142	04	04	
035	43	RCL		089	12	B		143	12	B	
036	13	13		090	92	RTN		144	92	RTN	
037	12	B		091	76	LBL		145	76	LBL	
038	92	RTN		092	39	CDS		146	99	PRT	
039	76	LBL		093	43	RCL		147	43	RCL	
040	16	A		094	03	03		148	16	16	
041	43	RCL		095	11	A		149	11	A	
042	06	06		096	43	RCL		150	43	RCL	
043	11	A		097	05	05		151	17	17	
044	43	RCL		098	12	B		152	12	B	
045	04	04		099	92	RTN		153	92	RTN	
046	12	B		100	76	LBL		154	76	LBL	
047	92	RTN		101	76	LBL		155	70	RAD	
048	76	LBL		102	43	RCL		156	13	C	
049	17	B		103	09	09		157	19	D	
050	25	CLR		104	11	A		158	19	D	
051	11	A		105	43	RCL					
052	43	RCL		106	01	01					
053	08	08		107	12	B					

LETTER A

## MERGED CODES

62	Pgm	Ind	72	STO	Ind	83	GTO	Ind
63	Exc	Ind	73	RCL	Ind	84	Op	Ind
64	Prg	Ind	74	SUM	Ind	92	INV	SBR



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LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS
159	13	C		213	22	INV		267	81	RST	
160	81	RST	LETTER B	214	14	D		268	76	LBL	P
161	76	LBL		215	13	C		269	49	FRD	
162	71	SBR		216	14	D		270	13	C	
163	13	C		217	81	RST		271	19	D'	
164	15	E		218	76	LBL		272	19	D'	
165	15	E		219	27*	INV	J	273	43	RCL	
166	10	E'		220	43	RCL	*press	274	11	11	
167	81	RST		221	02	02	2nd	275	43	RCL	
168	76	LBL	LETTER C	222	11	A		276	02	02	
169	24	CE		223	25	CLR		277	12	B	
170	13	C		224	12	B		278	81	RST	
171	14	D		225	14	D		279	76	LBL	Q
172	14	D		226	13	C		280	34	FX	
173	14	D		227	17	B'		281	13	C	
174	81	RST		228	81	RST	K	282	14	D	
175	76	LBL		229	76	LBL		283	15	E	
176	60	DEG	LETTER D	230	25	CLR		284	13	C	
177	13	C		231	13	C		285	43	RCL	
178	14	D		232	16	A'		286	08	08	
179	14	D		233	10	E'		287	11	A	
180	71	SBR		234	14	D		288	25	CLR	
181	39	CDS		235	81	RST		289	12	B	
182	81	RST		236	76	LBL	L	290	81	RST	
183	76	LBL	E	237	23	LNK		291	76	LBL	R
184	52	EE		238	13	C		292	43	RCL	
185	13	C		239	18	C'		293	13	C	
186	15	E		240	18	C'		294	19	D'	
187	15	E		241	18	C'		295	43	RCL	
188	14	D		242	81	RST		296	03	03	
189	81	RST		243	76	LBL	M	297	11	A	
190	76	LBL	F	244	47	CMS		298	43	RCL	
191	58	FIX		245	13	C		299	13	13	
192	13	C		246	17	B'		300	12	B	
193	19	D'		247	71	SBR		301	43	RCL	
194	19	D'		248	39	CDS		302	09	09	
195	17	B'		249	17	B'		303	11	A	
196	81	RST		250	13	C		304	43	RCL	
197	76	LBL	G	251	81	RST		305	02	02	
198	61	GTO		252	76	LBL	N	306	12	B	
199	13	C		253	57	ENG		307	81	RST	
200	14	D		254	13	C		308	76	LBL	S
201	15	E		255	17	B'		309	44	SUM	
202	71	SBR		256	71	SBR		310	43	RCL	
203	90	LST		257	39	CDS		311	14	14	
204	81	RST		258	18	C'		312	11	A	
205	76	LBL	H	259	13	C		313	43	RCL	
206	50	IXI		260	81	RST		314	00	00	
207	13	C		261	76	LBL	O	315	12	B	
208	16	A'		262	42	STD		316	15	E	
209	16	A'		263	13	C					
210	13	C		264	14	D					
211	81	RST	I	265	14	D					
212	76	LBL		266	13	C					

## MERGED CODES

62	Pgm	Ind	72	STO	Ind	83	GTO	Ind
63	Exc	Ind	73	RCL	Ind	84	Op	Ind
64	Pro	Ind	74	SUM	Ind	92	INV	SBR

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LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS
317	15	E		371	00	00		425	35	1/X	
318	71	SBR		372	11	A		426	16	A'	
319	90	LST		373	43	RCL		427	43	RCL	
320	81	RST		374	04	04		428	00	00	
321	76	LBL	LETTER T	375	12	B		429	11	A	
322	30	TAN		376	16	A'		430	43	RCL	
323	17	B'		377	71	SBR		431	02	02	
324	17	B'		378	35	1/X		432	12	B	
325	13	C		379	81	RST		433	16	A'	
326	17	B'		380	76	LBL	2	434	81	RST	
327	17	B'		381	81	RST		435	76	LBL	DIGIT 5
328	81	RST		382	14	D		436	78	Σ+	
329	76	LBL	u	383	71	SBR		437	71	SBR	
330	66	PAU		384	86	STF		438	35	1/X	
331	13	C		385	15	E		439	15	E	
332	18	C'		386	71	SBR		440	15	E	
333	18	C'		387	76	LBL		441	43	RCL	
334	13	C		388	14	D		442	01	01	
335	81	RST		389	81	RST		443	11	A	
336	76	LBL	V	390	76	LBL	DIGIT 1	444	43	RCL	
337	28	LOG		391	87	IFF		445	08	08	
338	17	B'		392	14	D		446	12	B	
339	71	SBR		393	13	C		447	81	RST	
340	39	CDS		394	18	C'		448	76	LBL	DIGIT 6
341	18	C'		395	81	RST		449	79	X	
342	71	SBR		396	76	LBL	DIGIT 2	450	13	C	
343	39	CDS		397	88	DMS		451	15	E	
344	17	B'		398	43	RCL		452	15	E	
345	81	RST		399	09	09		453	43	RCL	
346	76	LBL	W	400	11	A		454	01	01	
347	96	WRT		401	43	RCL		455	11	A	
348	13	C		402	10	10		456	25	CLR	
349	18	C'		403	12	B		457	12	B	
350	71	SBR		404	71	SBR		458	81	RST	
351	90	LST		405	86	STF		459	76	LBL	DIGIT 7.
352	18	C'		406	15	E		460	67	EQ	
353	13	C		407	43	RCL		461	17	B'	
354	81	RST		408	09	09		462	17	B'	
355	76	LBL	X	409	11	A		463	17	B'	
356	33	X²		410	43	RCL		464	13	C	
357	14	D		411	07	07		465	81	RST	
358	71	SBR		412	12	B		466	76	LBL	DIGIT 8
359	39	CDS		413	81	RST		467	68	NOP	
360	16	A'		414	76	LBL	DIGIT 3	468	71	SBR	
361	71	SBR		415	89	π		469	38	SIN	
362	39	CDS		416	14	D		470	15	E	
363	14	D		417	15	E		471	15	E	
364	81	RST		418	15	E		472	71	SBR	
365	76	LBL	y	419	71	SBR		473	38	SIN	
366	45	YX		420	38	SIN		474	81	RST	
367	71	SBR		421	81	RST					
368	35	1/X		422	76	LBL	DIGIT 4				
369	16	A'		423	77	GE					
370	43	RCL		424	71	SBR					

## MERGED CODES

62	Pgm	Ind	72	STO	Ind	83	GTO	Ind
63	Exc	Ind	73	RCL	Ind	84	Op	Ind
64	Pd	Ind	74	SUM	Ind	92	INV	SBR

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LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS	LOC	CODE	KEY	COMMENTS
475	76	LBL	<i>DIGIT 9</i>	529	16	A		583	14	D	
476	69	OP		530	81	RST		584	14	D	
477	25	CLR		531	76	LBL	=	585	71	SBR	
478	11	A		532	95	=		586	38	SIN	
479	43	RCL		533	10	E		587	81	RST	
480	02	02		534	10	E		588	76	LBL	<i>SPACE</i>
481	12	B		535	10	E		589	98	ADV	
482	15	E		536	10	E		590	98	ADV	
483	15	E		537	81	RST		591	81	RST	
484	13	C		538	76	LBL					
485	81	RST		539	32	XIT					
486	76	LBL	<i>DIGIT 0</i>	540	10	E					
487	97	DSZ		541	10	E					
488	71	SBR		542	81	RST	!				
489	38	SIN		543	76	LBL					
490	14	D		544	48	EXC					
491	14	D		545	71	SBR					
492	71	SBR		546	36	PGM					
493	38	SIN		547	71	SBR					
494	81	RST		548	36	PGM					
495	76	LBL		549	81	RST	?				
496	93	.		550	76	LBL					
497	18	C		551	59	INT					
498	18	C		552	25	CLR					
499	81	RST		553	11	A					
500	76	LBL	÷	554	43	RCL					
501	55	÷		555	10	10					
502	16	A		556	12	B					
503	71	SBR		557	25	CLR					
504	99	PRT		558	11	A					
505	71	SBR		559	43	RCL					
506	99	PRT		560	08	08					
507	16	A		561	12	B					
508	81	RST		562	43	RCL					
509	76	LBL	X	563	15	15					
510	65	X		564	11	A					
511	10	E		565	43	RCL					
512	16	A		566	08	08					
513	10	E		567	12	B					
514	81	RST		568	25	CLR					
515	76	LBL		569	11	A					
516	75	-	-	570	43	RCL					
517	16	A		571	02	02					
518	16	A		572	12	B					
519	16	A		573	81	RST					
520	16	A		574	76	LBL	(				
521	81	RST		575	53	(					
522	76	LBL		576	71	SBR					
523	85	+	+	577	38	SIN					
524	16	A		578	14	D					
525	16	A		579	14	D					
526	71	SBR		580	81	RST					
527	39	CDS		581	76	LBL					
528	16	A		582	54	)	)				

These print codes, on the left, should be stored in the data registers, on the right.

3232323232.	00
3232323232.	01
3232323200.	02
32323232.	03
3200000000.	04
3232320000.	05
32.	06
32323200.	07
3232.	08
3232000000.	09
323200.	10
32320000.	11
3232003232.	12
3200003232.	13
3232000032.	14
3200323232.	15
32320032.	16
3200323200.	17
0.	18
0.	19

## MERGED CODES

62	Pgm	Ind	72	STO	Ind	83	GTO	Ind
63	Exc	Ind	73	RCL	Ind	84	Op	Ind
64	Prt	Ind	74	SUM	Ind	92	INV	SBR