ELECTRONIC CASH REGISTER

PCR-1000

GROCERY
DAIRY
H.B.A.

FROZEN
FOOD
DELICATESSEN

10.00

USER'S MANUAL

CASIO®

Unpacking the register

Welcome to the CASIO PCR-1000!

Congratulations upon your selection of a CASIO Electronic Cash Register, which is designed to provide years of reliable operation.

Operation of a CASIO cash register is simple enough to be mastered without special training. Everything you need to know is included in this manual, so keep it on hand for reference.

If you need programming assistance, please call 1-800-638-9228. In Canada, Call 1-800-661-2274.

Journal spool

Roll paper

User's Manual

Mode keys

Drawer keys

Ink ribbon cassette
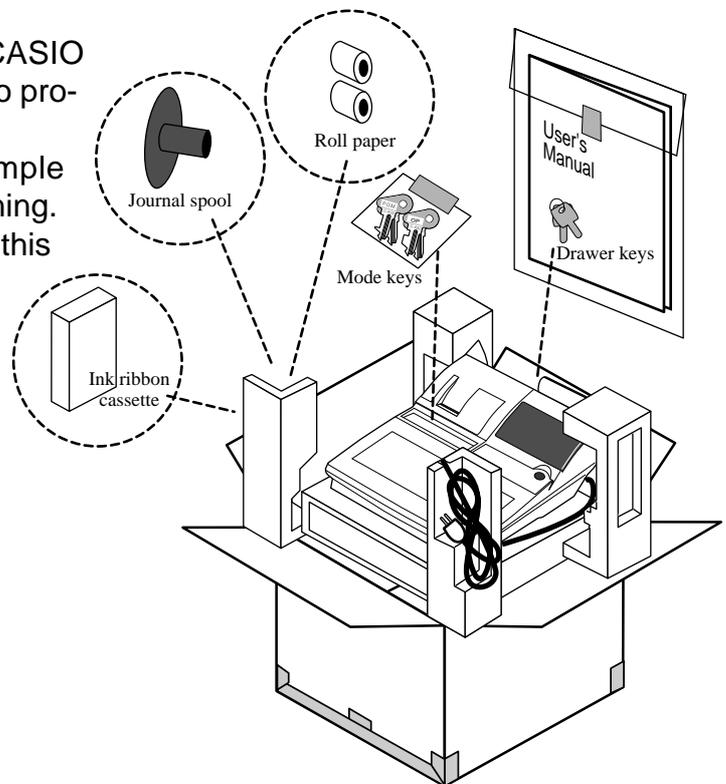
CASIO AUTHORIZED SERVICE CENTER

If your Casio product needs repair, or you wish to purchase replacement parts, please call 1-800-YO-CASIO for the authorized service center nearest your home.

If for any reason this product is to be returned to the store where purchased, it must be packed in the original carton/package.

**GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A.
(Not applicable to other areas)**

WARNING: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.


The main plug on this equipment must be used to disconnect mains power.
Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

*Please keep all information for future reference.*

Important!

Your new cash register has been carefully tested before shipment to ensure proper operation. Safety devices eliminate worries about breakdowns resulting from operator errors or improper handling. In order to ensure years of trouble-free operation, however, the following points should be noted when handling the cash register.

Do not locate the cash register where it will be subjected to direct sunlight, high humidity, splashing with water or other liquids, or high temperature (such as near a heater).
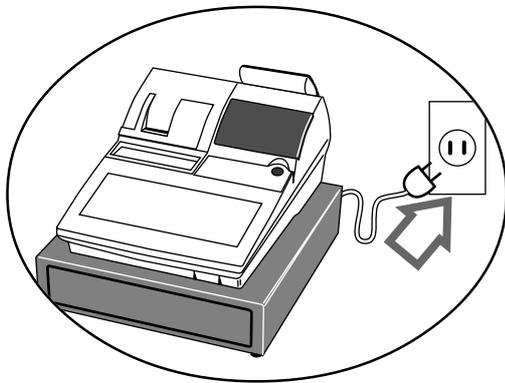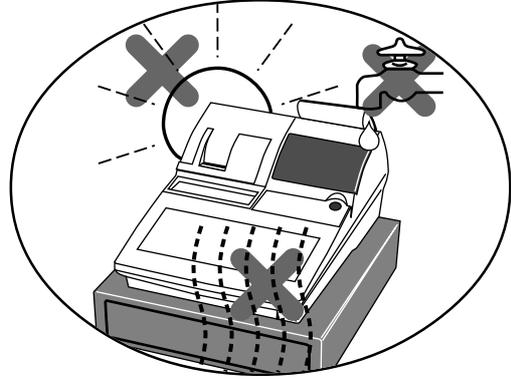
Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in the area.

Never operate the cash register while your hands are wet.
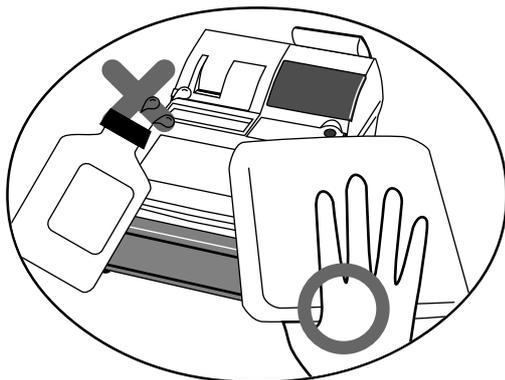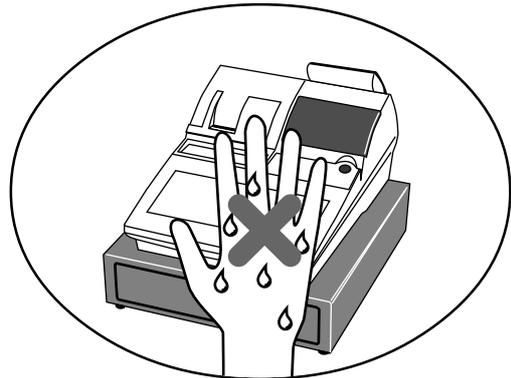
Use a soft, dry cloth to clean the exterior of the cash register. Never use benzene, thinner, or any other volatile agent.

Never try to open the cash register or attempt your own repairs. Take the cash register to your authorized CASIO dealer for repairs.

Introduction & Contents

Introduction & Contents

Getting Started

This section outlines how to unpack the cash register and get it ready to operate. You should read this part of the manual even if you have used a cash register before. The following is the basic set up procedure, along with page references where you should look for more details.

1. Remove the cash register from its box.
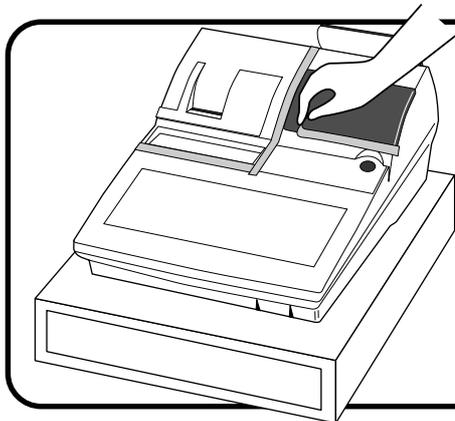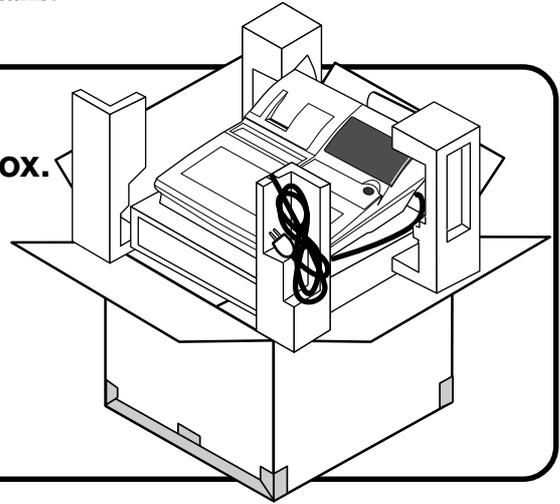
2. Remove the tape holding parts of the cash register in place.

Also remove the small plastic bag taped to the printer cover. Inside you will find the mode keys.
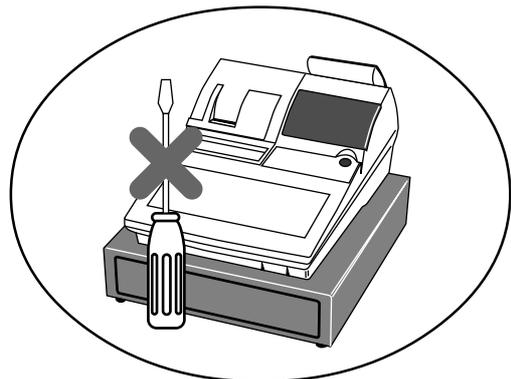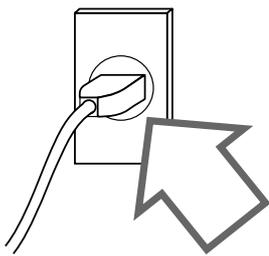
3. Plug the cash register into a wall outlet.

Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in your area. The printer will operate for a few seconds. Please do not pass the power cable under the drawer.

4. Insert the mode key marked "PGM" into the mode switch.

CAL
REG
OFF
RF
PGM
Z
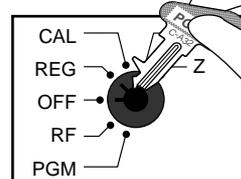
5. **Install receipt/journal paper.**

Loading journal paper

The same type of paper (45 mm × 83 mm i.d.) is used for receipts and journal. Load the new paper before first operating the cash register or when red paper appears from the printer.
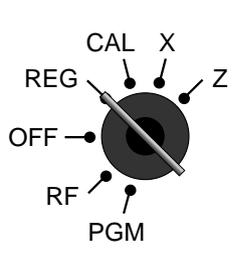
① Use a mode key to set the mode switch to REG position.
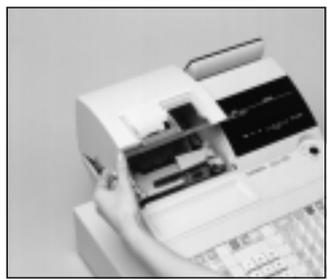
② Open the printer cover.

③ Cut off the leading end of the paper so it is even.

④ Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.

⑤ Drop the paper roll gently and insert paper to the paper inlet.

⑥ Press the [JOURNAL FEED] key until about 20 cm to 30 cm of paper is fed from the printer.

⑦ Slide the leading end of the paper into the groove on the spindle of the take-up reel and wind it onto the reel two or three turns.

⑧ Place the take-up reel into place behind the printer, above the roll paper.

⑨ Press the [JOURNAL FEED] key to take up any slack in the paper.

⑩ Close the printer cover.

Loading receipt paper

Follow steps ① through ③ under "Loading journal paper" on the previous page.

④ Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.

⑤ Drop the paper roll gently and insert paper to the paper inlet.

⑥ Press the [RECEIPT FEED] key until about 20 cm to 30 cm of paper is fed from the printer.
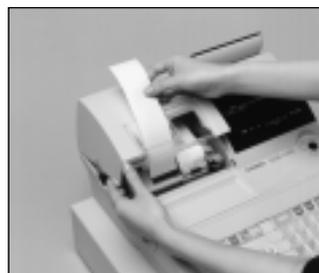
⑦ Set the printer cover, passing the leading end of the paper through the paper outlet. Close the printer cover and tear off the excess paper.

Important!

Never operate the cash register without paper. It can damage the printer.

6. **To set the ink ribbon**

① Open the printer cover.

② Remove the printer sub cover.

Important!

Use ERC-32 ink ribbon.

③ Load a new ink ribbon cassette into the unit.

④ Turn the knob on the right side of the cassette to take up any slack in the ribbon.

Knob

⑤

Replace the printer cover and printer sub cover.

7. Machine initialization

Machine initialization and program auto loading

You must perform the following procedure to initialize the cash register before using it for the first time.

Important

This procedure clears all of the totalizers and programs currently contained in the memory, and reload the standard program into memory.
This operation should be performed before using the cash register for the first time only.

(1) Plug the power code into an AC outlet.

(2) Set the Mode Switch to OFF.
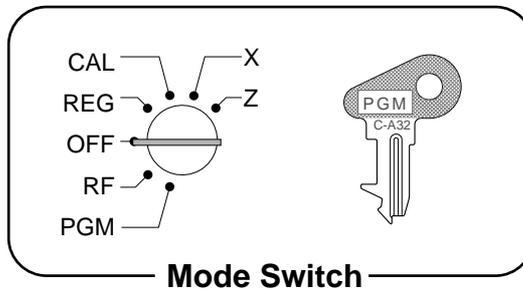
Mode Switch

(3) While holding down the JOURNAL FEED,

turn the Mode Switch to PGM.

PGM
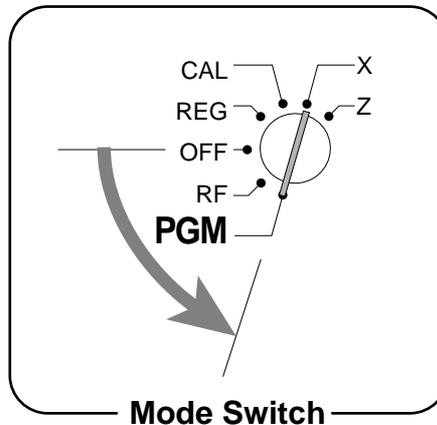
(4) Release the JOURNAL FEED

Mode Switch

PLU	AMOUNT
DEPT RPT	

$$0000000000$$

RCT REG CAL X Z T/S1 T/S2 T/S3 TOTAL CHANGE

+ – × ÷
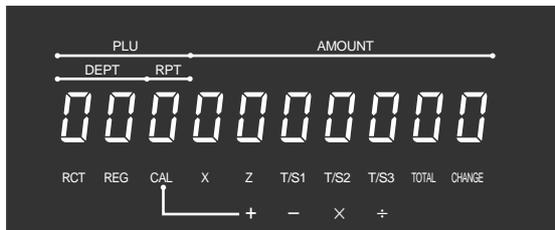
You should see "0000000000" on the display.

If another character is shown, immediately set the Mode Switch to OFF and start the beginning of this procedure.

and enter **2 3 0 1 0** SUB TOTAL

Initialization and program auto loading are complete, and initialization receipt issued.

8. Set the date.

Mode Switch

→ **1** [SUB TOTAL] → ☐☐☐☐☐☐ → [X/FOR DATE TIME] → [C C/AC]

Current date
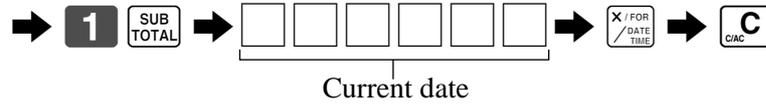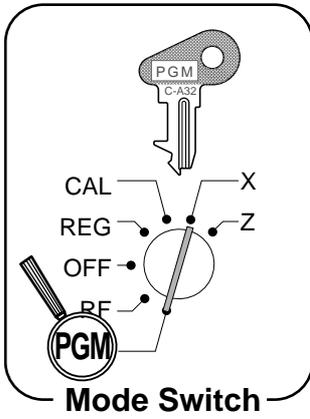
Example:

March, 4, 2001 ⇨ **0** **1** **0** **3** **0** **4**

Year Month Day

9. Set the time.

Mode Switch

→ **1** [SUB TOTAL] → ☐☐☐☐ → [X/FOR DATE TIME] → [C C/AC]

Current time
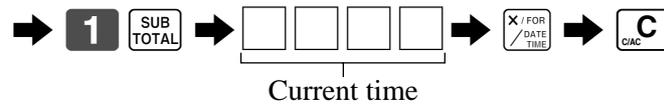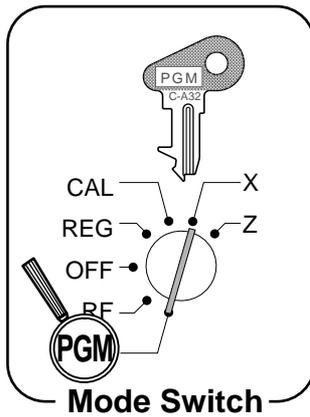
Example:

08:20 AM ⇨ **0** **8** **2** **0**

09:45 PM ⇨ **2** **1** **4** **5**

(24-hour military time)

10. Tax table programming

Programming automatic tax calculation

Important!

After you program the tax calculations, you also have to individually specify which departments (page 32) and PLUs (page 35) are to be taxed.

For this cash register to be able to automatically register state sales tax, you must program its tax tables with tax calculation data from the tax table for your state. There are three tax tables (U.S.) and four tax tables (Canada) that you can program for automatic calculation of three separate sales taxes.

Programming for the U.S. Tax Tables Procedure

Find your state in the table (page 15 ~ 18) and input the data shown in the table.
State sales tax calculation data tables for all of the states that make up the United States are included on the following pages.

Important!

Be sure you use the state sales tax data specifically for your state. Even if your state uses the same tax rate percentage as another state, inputting the wrong data will cause incorrect result.

Programming procedure

Example 1 (Alabama 6% sales tax to Tax Table 1)

					ALABAMA		
4%	5%	6%	6%	6% (4+1+1)		7%	8%
0	0	0	0	0		0	0
1	1	1	1	1		1	1
1	1	1	1	1		1	1
10	10	8	9	10		7	6
30	29	24	20	20		21	18
54	49	41	40	36		35	31
73	69	58	55	54		49	43
110	89		70	70		64	56
	110		90	85		78	68
			109	110		92	81
						107	93
							106

Assign Tax Table 1 ⇨ 0 1 2 5 [CA/AMT =/TEND]

0 ⇨ 0 [CA/AMT =/TEND]

1 ⇨ 1 [CA/AMT =/TEND]

1 ⇨ 1 [CA/AMT =/TEND]

8 ⇨ 8 [CA/AMT =/TEND]

24 ⇨ 2 4 [CA/AMT =/TEND]

41 ⇨ 4 1 [CA/AMT =/TEND]

58 ⇨ 5 8 [CA/AMT =/TEND]

Press [CA/AMT =/TEND] ⇨ [CA/AMT =/TEND]

Terminate program ⇨ [SUB TOTAL]
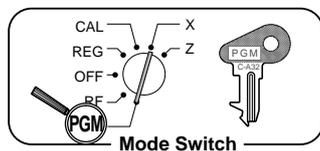
Example 2 (Colorado 5.25% sales tax to Tax Table 2)

			COLORADO LOVELAND		
4.5%	5%	5%	5.25%	5.5%	
0	211	0	0	5.25	0	172
1	233	1	1	5002	1	190
5	255	2	1		6	209
17	277	17	18		17	227
33	299	29	18		27	245
55		49	51		45	263
77			68		63	281
99			84		81	299
122			118		99	
144					118	
166					136	
188					154	

Assign Tax Table 2 ⇨ 0 2 2 5 [CA/AMT =/TEND]
(Tax Table 3: 0 3 2 5)
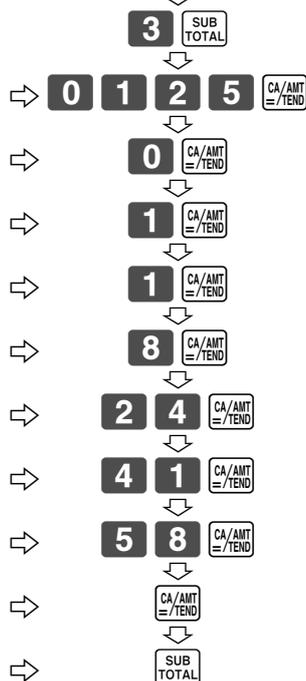
5.25 ⇨ 5 . 2 5 [CA/AMT =/TEND]

5002 ⇨ 5 0 0 2 [CA/AMT =/TEND]

Press [CA/AMT =/TEND] ⇨ [CA/AMT =/TEND]

Terminate program ⇨ [SUB TOTAL]

Mode Switch
CAL — X
REG — Z
OFF
RF
PGM

3 [SUB TOTAL]
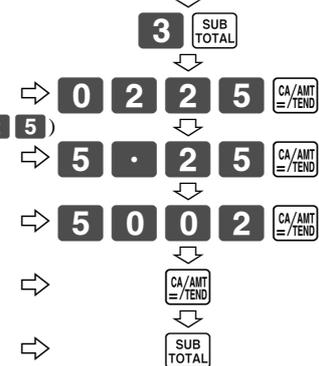
U.S. TAX TABLES

A — ALABAMA

4%	5%	6%	6%	6% (4+1+1)	7%	8%
0	0	0	0	0	0	0
1	1	1	1	1	1	1
1	1	1	1	1	1	1
10	10	8	9	10	7	6
30	29	24	20	20	21	18
54	49	41	40	36	35	31
73	69	58	55	54	49	43
110	89	70	70	64	56	56
	110		90	85	78	68
			109	110	92	81
					107	93
						106

ALASKA

KENAI 2%	3%	HOMER/SELDOVIA 3%	HAINES 4%	JUNEAU 4%	KENAI 5%	KENAI,SEWARD & SOLDOTNA 5%	
0	0	0	0	0	0	0	177
1	1	1	1	1	1	1	184
1	4	4	2	1	6	1	218
25	34	25	19	12	13	09	
75		34	37	37	25	29	
		75	62		46	49	
		127			75	69	
		155			79	89	
		177			118	109	
		227			127		
					151		

ALASKA

HOMER 5.5%			6%	
0	145	345	6	159
1	163	363	2	179
1	181	381	29	199
8	208	408	29	219
27	227		49	239
45	245		69	259
63	263		89	259
81	281		109	279
99	299		109	300
108	308		129	
127	327		159	

ARIZONA

4%	5%	6%		6.5%		6.7%		6.8%			7%
0	0	0	175	0	161	0	156	0	153	345	0
1	1	1	191	1	176	1	171	1	168	359	1
5	9	9		7	192	7	186	3	183	374	7
12	10	10		7	207	7	201	6	198	389	21
37	27	22		23	223	22	216	21	212	403	35
	39	39		38	238	37	231	36	227	418	49
	56	56		53	253	52	246	50	242	433	64
	73	73		69	269	67	261	65	256	448	78
	90	90		84	284	82	276	80	271	452	92
	99	107		99	299	97	291	95	286	477	107
	107	125		115		111		109		492	
	125	141		130		126		124		506	
	141	158		146		141		139		330	
	158										

ARKANSAS

3%	4%	5%	6%	6.8%	7%	7.5%
0	0	0	0	0	0	0
1	1	1	1	1	1	1
14	12	10	8	6	7	2
44	37	20	24	19	21	6
74	40	40	33	35	35	19
114	58	60	46	49	49	33
		80		64	64	46
		110		78	78	
				92	92	
				107	107	

C — CALIFORNIA

6%		6.25%	6.5%			6.75%				7%			7.25%		7.25%	7.5%	7.75%	8.25%	8.5%		LOS ANGELES 10% Parking	
0	141	0	0	130	299	6.75	121	278		0	121		7.25	117	7.25	7.5	7.75	8.25	0	99	0	99
1	158	1	1	146		5002	135	292		1	135		5002	131	5002	1	5002	5002	1	111	1	104
7		7	7	161		0	149	307		8	149		0			3			11	123	11	114
10		10	10	176		10	164			10	164		10			6			5	135	99	124
22		21	20	192		20	178			20	178		20			19			17	147	99	134
39		37	35	207		34	192			33	192		32			33			29	158	99	144
56		54	51	223		48	207			47	207		46			46			41	170	99	154
73		70	67	238		64	221			62	221		60			59			52	182	99	
90		86	83	253		80	235			76	235		74			73			64	194	99	
108		103	99	269		96	249			91	249		88						76	205	99	
124		119	115	284		111	264			107	264		103						88		99	

COLORADO (LOVELAND)

1.5%	2%	2.5%	3%	3.5%	3.6%		3.85%	4%	4.5%		5%	5%	5.25%	5.5%		5.6%		5.75%		6%	6.1%	6.35%	6.4%
0	0	0	0	0	0	264	0	0	0	211	0	0	5.25	0	172	0	168	0	165	0	6.1	6.35	6.4
1	1	1	1	1	1	291	1	1	1	233	1	1	5002	1	190	1	186	1	182	1	5002	5002	5002
1	1	1	3	2	5	319	2	2	5	255	2	1		6	209	7	204	8	199	2	0		0
33	24	19	17	17	17	347	16	17	17	277	17	18		17	227	25	222	17	217	17	17		17
99	74	59	49	42	41	375	37	37	33	299	29	18		27	245	43	240	26		24			
166		83	71	69	63		62		55		49	51		45	263	61		43		41			
233		116	99	97					77			68		63	281	79		60		58			
		149	128	124					99			84		81	299	97		78		74			
		183	157	152					122			118		99		115		95					
			185	180					144					118		132		113					
			214	208					166					136				130					
			242	236					188					154		150		147					

COLORADO

6.45%	6.5%		6.6%	7%		7.01%	7.1%	7.2%		7.25%	7.3%		7.5%	8%
6.45	0	146	6.6	0	135	7.01	7.1	0	131	7.25	0	130	0	0
5002	1	161	5002	1	149	5002	5002	1	145	5002	1	143	1	1
0	2	176		4		0		2	159		3	157	3	1
17	17	192		17		17		17	173		6	171	17	6
	23	207		21		21		20	187		20		19	18
	38	223		35		35		34	201		34		33	31
	53			49		49		48	215		47		46	43
	69			64		64		62	229		61		59	56
	84			78				76	243		75		73	68
	99			92				90	256		89			81
	115			107				104			102			93
	130			121				118			116			106

CONNECTICUT

5.25%		6%	7%	7.5%	8%
0	198	0	0	0	0
1	218	1	1	1	1
2		2	1	3	1
16		8	7	6	6
27		24	21	19	18
46		41	35	33	31
65		58	49	46	
84		74	64	59	
103		91	78	73	
122		108	92		
141		124	107		
160					
179					

D — DISTRICT OF COLUMBIA

D.C. 5%	D.C. 5.75%	D.C. 6%	D.C. 6%	D.C. 8%	D.C. 9%	
0	5.75	0	0	0	0	105
1	5002	1	1	1	1	116
1	0	1	1	6	6	127
10	8	12	8	12	6	138
22		17	24	16	16	149
42		35	41	27	27	161
82		53	58	39	38	
62		71	74	50	49	
110		89	91	62	61	
		112	108	75	72	
				90	83	
				112	94	

F — FLORIDA

4%		5%	Combined 5.25%	6%	6.2%	PANAMA CITY BEACH 6.5%		7%		7.5%	
0	175	0	5.25	0	6.2	0	107	0	109	0	93
1	209	1	5002	1	5002	1	123	1		1	106
5		1	1	9	1	1	138	9		9	120
9		9	9		9	9	153	14		13	133
25		20	16	16	15	15	169	28		26	146
50		40	33	33	30	30	184	42		40	160
75		60	50	50	46	46	209	57		53	173
109		80	66	66	61	61		71		66	186
125		109	83	83	76	76		85		80	209
150			109		92	92					

G — GEORGIA

3%	4%	5%	6%
0	0	0	0
1	1	1	1
1	1	1	1
10	10	10	10
35	25	20	20
66	50	40	35
110	75	60	50
	110	80	67
		110	85
			110

H — HAWAII

4%
0
1
1
12
37

IDAHO (I)

3%	4%	4.5%		5%
0	0	0	→227	0
1	1	1		1
1	2	2		2
15	11	15		11
42	32	27		25
72	57	49		45
115		71		
		93		
		115		
		137		
		160		
		183		
		205		

ILLINOIS

1%	1.25%	2%	5%	6%	6.25%	6.5%		6.75%	7%	7.5%	7.75%	8%	8.75%
0	0	0	0	0	0	0	161	6.75	0	0	7.75	0	8.75
1	1	1	1	1	1	1	176	5002	1	1	5002	1	5002
1	1	1	1	1	1	1	192		1	1	0	1	0
49	39	24	12	8	7	7	207		8	6	6	6	5
148	119	74	25	24	23	23			22	19	18		
			46	41		38			36	33	31		
			67	58		53			50	46			
			88			69			65				
			109			84			79				
			129			99			93				
						115			108				
						130							
						146							

INDIANA

1%	4%	5%	MARION County 5%	RESTAURANT 6%
0	0	0	0	0
1	1	1	1	1
1	2	1	2	1
49	15	9	15	9
148	37	29	37	29
	62		49	49
			62	49
			87	69
			112	89
			137	109

IOWA

4%	5%	6%
0	0	0
1	1	1
3	1	1
12	9	8
37	29	24
50		41
75		58
		74
		91
		108

KANSAS (K)

2.5%	3%	3.1%	3.25%		3.5%	3.75%		4%	4.1%	4.5%	4.9%				5%	5.25%	5.4%			5.5%	5.65%
0	0	3.1	0	323	0	0	279	0	4.1	0	214	479	744	1010	0	5.25	0	194	435	0	5.65
1	1	5002	1	353	1	1	306	1	5002	1	234	499	765		1	5002	1	212	453	1	5002
1	1	0	1	384	1	1	333	1	0	1	255	520	785		1		1	231	472	1	0
19	16	16	15	415	14	13	359	12	12	11	275	540	806		9		9	249	490	9	8
59	49		46		42	39	386	37		33	295	561	826		29		27	268	509	27	
99	83		76		71	66	413	62		55	316	581	846				46	287		45	
139	116		107		99	93		87		77	336	602	867				64	305		63	
179			138		128	119		112		99	357	622	887				83	324		81	
			169		157	146				122	377	642	908				101	342		99	
			199		185	173				144	397	663	928				120	361		118	
			230			199				166	418	683	948				138	379		136	
			261			226				188	438	704	969				157	398		154	
			292			253				211	459	724	989				175	416		172	

KANSAS

5.9%	6%	6.15%	6.4%	6.5%	9.5%		10%
5.9	0	6.15	6.4	6.5	0	110	0
5002	1	5002	5002	5002	1	121	1
0	7	0	0	0	1	131	1
8	8	8	7	7	5	142	4
	24				15	152	14
	41				26	163	24
	58				36	173	34
	74				47	184	44
	91				57	194	54
	108				68		64
	124				78		74
	141				89		84
	158				99		94

KENTUCKY

5%	6%
0	0
1	1
6	2
10	8
25	24
46	41
67	58
88	74
109	
129	

LOUISIANA (L)

2%	3%	4%	4.5%	5%	6%	6%		7%	7.5%	8%	9%
0	0	0	0	0	0	0	161	0	0	0	0
1	1	1	1	1	1	1	176	1	1	1	1
2	2	2	1	1	2	17	192	1	2	1	1
24	16	12	11	10	8	7	207	7	6	4	5
74	49	37	33	27	24	23	223	21	19	16	16
124	82	62	55	47	41	38	238	35	33	29	27
174	116	87	77	67	58	53	253	49	46	42	38
224	149	112	99	87	74	69	269	64	59	55	49
			122	109		84	284			67	61
			144	129		99	299			80	72
			166			115	315			93	83
			188			130	330			106	94
			211			146					105

MAINE (M)

5%	6%	7%
0	0	7
1	1	2
1	1	0
10	9	7
20	16	21
40	33	35
60	50	49
80	66	64
110	83	78
	109	92
		100

MARYLAND

4%	5%	Meals Tax 5%
0	0	0
1	1	1
2	2	7
24	19	99
25	20	99
50	40	99
		99
		100
		120
		140

MASSACHUSETTS

4.625%		5%
0	227	0
1	248	1
13	270	1
10	291	9
32	313	29
54	335	
75	356	
97	378	
118	399	
140	421	
162	443	
183		
205		

MICHIGAN

4%	6%
0	0
1	1
7	2
12	10
31	24
54	41
81	58
108	74
135	91
162	108
187	124

MINNESOTA

6%	6.5%		7%	8.5%	
0	0	161	0	0	123
1	1	176	1	1	135
1	1	192	1	1	147
8	7	207	7	5	158
24	23		21	17	170
41	38		35	29	182
58	53		49	41	194
	69		64	52	205
	84		78	64	
	99		92	76	
	115		107	88	
	130			99	
	146			111	

MISSISSIPPI

5%	6%	7%	7.25%			8%	8.5%		9%	9.25%
0	0	0	0	144	324	0	0	123	0	9.25
1	1	1	1	158	337	1	1	135	1	5002
6	1	1	1	172	351	1	1	147	1	0
11	8	7	6	186	365	6	5	158	5	5
26	24	20	21	199	379	18	17	170	16	
47	41	35	34	213	393	31	29	182	27	
68	58	48	48	227	406	43	41	194	38	
88	74	62	62	241		56	52	205	49	
109	91	75	75	255		68	64		61	
129	108	89	89	268		81	76		72	
		103	103	282		93	88		83	
		117	117	296		106	99		94	
		131	131	310			111		105	

MISSOURI

4.225%	4.6%	4.625%		4.725%	4.75%	4.8%	4.975%		5.05%	5.1%	5.225%	5.6%		5.625%	5.725%	5.975%		6.1%	6.225%		6.3%	6.425%	
0	0	0	227	0	0	0	0	211	0	0	5.225	0	187	0	5.725	0	175	392	0	168	0	166	0	163
1	1	1	248	1	1	1	1		1	1	5002	1	205	1	5002	1	192	410	1	184	1	182	1	178
1	1	13	270	4	3	3	1		5	1		15	223	1		2	209		1	200	1	198	1	194
11	10	10	291	10	10	10	30		9	9		8	241	8		8	225		8	216	7	214	7	210
35	32	32	313	31	22	31	50		19	29		26	258	26		25	242		24	232	23	230	23	225
59	54	54	335	52	43	52	70		39	49		44	276	44		41	259		40	248	39	246	38	241
82	76	75	356	74	65	72	90		59	68		62	294	62		58	276		57	265	55		54	256
		97	378	95	86	93	110		79	88		80	312	79		75	292		73		71		70	272
		118	399	116	107	114	130		98	107		98	330	97		92	309		90		87		85	287
		140	421	137	128	135	150		118			115	348	115		108	326			104		103		101
		162	443	158	149	156	170		138			133	366	133		125	342			120		119		116
		183		179	170	177	190		158			151	383	151		142	359			136		134		132
		205		201					178			169		168		158	376			152		150		147

MISSOURI

6.475%		6.55%		6.725%	7.225%
0	162	0	160	6.725	7.225
1	177	1	175	5002	5002
13	193	9	190		
7	208	7			
23	223	22			
38	239	38			
54	254	53			
69	270	68			
84	285	83			
100	301	99			
115	316	114			
131	332	129			
146		145			

NEBRASKA (N)

3%	3.5%	4%	4.5%	5%		5.5%	6%	6.5%	
0	0	0	0	233	0	0	190	0	161
1	1	1	1	255	1	1	209	1	176
3	3	2	6	277	2	2	227	1	192
16	14	14	14	299	14	14		8	207
49	42	37	33	322	29	27		24	23
83	71	62	55		49	45		41	38
116	99		77			63		53	
149	128		99			81		69	
183	157		122			99		84	
	185		144			118		99	
	214		166			136		115	
	242		188			154		130	
	271		211			172		146	

NEVADA

3%	3.5%		5.75%	6%	6.25%		6.5%		6.75%	7%
0	0	299	5.75	0	0	167	0	161	6.75	0
1	1	326	5002	1	1	183	1	176	5002	1
2	6	357		1	2	199	1	192	0	1
14	14			8	7	215	7	207	7	7
49	38			24	23		23			21
83	64			41	39		38			35
116	88			58	55		53			49
149	118			74	71		69			64
					87		84			78
					103		99			92
					119		115			107
					135		130			
					151		146			

N — NEW HAMPSHIRE

7%		7% Rooms & Meals		8% Rooms & Meals
0	129	0	128	0
1	143	1	142	1
8	158	8	157	4
14	172	35	171	35
26	186	35	185	35
39	201	38	200	35
51		50		37
63		62		50
75		74		62
88		87		
101		100		
115		114		

NEW JERSEY

3%	3.5%	6%	7%	
0	0	0	0	150
1	1	1	1	164
1	1	1	8	178
17	14	10	10	192
41	42	22	21	207
71	71	38	35	
117	100	56	50	
	128	72	64	
	157	88	78	
	185	110	92	
	214		107	
			121	
			135	

NEW MEXICO

3.75%		4.25%		4.375%		4.5%	4.875%	5.175%	5.25%		5.375%	5.575%	5.75%
0	280	0	247	0	239	0	4.875	5.175	0	199	5.375	5.575	5.75
1	306	1	270	4		1	5002	5002	1	217	5002	5002	5002
6	333	1	294	11		1			11				
13	359	11	317	34		11			9				
40		35	341	57		33			28				
67		58	364	79		55			47				
93		82	388	102		78			66				
120		105	411	125		100			85				
146		129		148		122			104				
173		152		171		144			123				
200		176		194		167			142				
226		199		217		189			161				
253		223				211			180				

NEW MEXICO

6.187%	6.1875%	
0	6.1875	
1	5002	
4	0	
9	8	
23		
40		
56		
72		
88		
104		
120		
136		
153		

NEW YORK

4%	5%	5.25%	5.75%	6%		6.25%	6.5%		6.75%	7%		7.25%	7.5%		ERIE 8%		SUFFOLK County 8%		8.25%	8.5%
0	0	5.25	5.75	0	141	0	0	130	6.75	0	121	7.25	0	113	0	105	0	106	8.25	8.5
1	1	5002	5002	1	158	1	1	146	5002	1	135	5002	1	126	10	119	9	118	5002	5002
5	6			7		7	7	161		8	149		8	139	10	131	10	131		
12	10			10		10	23	176		10	164		10		17	144	17			
33	27			22		22	38	192		20	178		18		29		29			
58	47			38		38	53	207		33	192		31		42		42			
83	67			56		54	69			47	207		45		55		54			
112	87			72		70	84			62			58		67		67			
137	109			88		86	99			76			71		80		79			
	129			108		103	115			91			85		92		92			
				124		119				107			99							

NORTH CAROLINA

3%	4%	4.5%		5%	CHEROKEE Reservations 6%	6%
0	0	0	188	0	0	0
1	1	1	211	1	1	1
5	5	6	233	8	2	2
9	9	9	255	23	10	8
35	29	25	277	48	24	24
70	59	53	299	67	41	41
116	84	75	322	85	58	58
149	112	95		109	74	74
183	137	122		129		91
216		144				108
		166				124

NORTH DAKOTA

3%	4%	4%	5%	5.5%		6%	6.5%		7%	8%
0	0	0	0	0	182	0	0	170	0	0
1	1	1	1	1	200	1	1	185	1	1
3	5	2	2	2	219	3	2	200	2	3
15	15	15	15	19		15	15	216	15	15
33	31	25	20	37		17	31	231	15	25
67	51	50	40	55		34	47		29	38
100	71	75		73		50	62		43	50
133	100	100		91		67	77		58	63
166	125	125		110		84	93		72	75
200				128			108		86	88
				146			124		100	100
				164			139		115	
							154			

O — OHIO

5%	5.5%		5.75%	6%	MEIGS Co. 6%		6.25%
0	0	146	5.75	0	0	134	0
1	1	164	5002	1	2		1
2	15	182		3	16		2
15	18	200		15	17		15
20	36	218		17	34		16
40	54			34	50		32
	72			50	67		
	90			67	83		
	109			83	100		
	127			100	117		
				117			

OHIO

6.5%		7%		CUYAHOGA Co. 7%		7.75%
0	123	0	115	0	115	7.75
1	138	1	128	1	128	5002
3	153	3		3		
15	169	15		15		
15	184	15		15		
30	200	28		28		
46	215	42		42		
61	230	57		57		
76		71		71		
92		85		85		
107		100		100		

OKLAHOMA

2%	3%	3.25%		4%	4.25%	4.5%	5%	5.25%	6%	6.25%	6.725%	7%	7.25%	7.375%	8%	8.25%	9.25%	10.25%
0	0	0	323	0	4.25	0	0	5.25	0	0	6.725	0	7.25	7.375	0	0	0	0
1	1	1	353	1	5002	1	1	5002	1	1	5002	1	5002	5002	1	1	1	1
1	1	7	384	1		2	1		1	1		6		0	6	6	4	1
24	16	15	415	12		11	9		8	7		8		6	18	6	5	4
74	49	46	446	37		33	29		24	23		22			31	18	16	14
	116	76	476			55			41			37				30	27	24
		107	507			77			58			51				42	37	34
		138	538			99						65				54	48	43
		169	569			121						79				66	59	
		199	599			144						94				78	70	
		230										108				90	81	
		261										122				103	91	
		292																

P — PENNSYLVANIA

6%	7%	
0	0	150
1	1	150
1	5	167
10	10	184
17	17	210
34	34	217
50	50	234
67	67	235
84	84	250
110	110	250
	117	
	134	

R — RHODE ISLAND

6%	7%	
0	0	149
1	1	164
6	5	178
9	7	192
26	21	207
42	35	221
57	49	235
73	64	249
90	78	264
106	92	
123	107	
140	121	
	135	

S — SOUTH CAROLINA

4%	5%	CHARLESTON 6%
0	0	0
1	1	1
5	6	2
10	10	10
25	20	24
50	40	41
75	60	41
112	80	58
137	109	74
	129	91
		108
		124

SOUTH DAKOTA

4%	5%	5.5%		6%		6.5%	7%	
0	0	0	190	0	161	0	0	149
1	1	1	210	1	176	1	1	
1	1	1		1	192	7	4	
12	10	10		9	207	23	7	
37	30	28		26		38	21	
		46		43		53	35	
		64		60		69	49	
		82		76		84	64	
		100		92		99	78	
		118		109		115	92	
		136				130	107	
		154				146	121	
		172					135	

T — TENNESSEE

4.5%		5.5%			6%	6.25%	6.5%		6.75%		7%		COUNTY TAX 7.25%		7.5%	7.75%	8%	8%		8.25%	8.5%		8.75%
0	188	0	154	354	0	0	0	130	0	125	0	121	0	117	0	7.75	0	0	106	8.25	0	99	8.75
1	211	1	172	372	1	1	1	146	1	140	1		1	130	1	5002	1	1	118	5002	1	111	5002
1		11	190	390	2	2	2	161	8	155	2		10	144	2		2	2			2	123	
11		10	209		10	10	10	176	10	170	10		10	158	10		10	10			10	135	
33		27	227		24	23	23	192	22	185	21		20	172	19		18	18			17	147	
55		45	245		41	39	38	207	37	199	35		34	185	33		31	31			29	158	
77		63	263		58	55	53		51	214	49		48		46		43	43			41	170	
99		81	281		74	71	69		66	229	64		61		59			56			52	182	
122		99	299			87	84		81	244	78		75					68			64	194	
144		119	318				99		96	259	92		89					81			76	205	
166		136	336				115		111	274	107		103					93			88	217	

T — TEXAS

4%	4%	4.125%		4.625%	5%	5.125%	5.25%		5.375%	5.5%		5.625%		6%	DALLAS 6%	HOUSTON (Harris County) 6%	6.125%	6.25%	6.25%	6.75%		
0	0	0	206	4.625	0	5.125	0	161	5.375	0	155	0	151	0	0	0	6.125	0	6.25	0	125	288
1	1	1	230	5002	1	5002	1	180	5002	1	173	1	168	1	1	1	5002	1	5002	1	140	303
1	1	1	254				12	199		1	191	1		1	1	1		7		3	155	318
12	12	12	278		9		9	219		9	209	8		8	9	8		23		8	170	333
37	37	36	303		29		28	238		27		26		24	25	24		39		22	185	348
	62	60	327		49		47			45		44		41	42	41		55		37	199	362
	87	84	351		69		66			63		62		58	59	58		71		51	215	377
		109	375				85			81		79				74		87		66	229	392
		133	399				104			99		97				91		103		81	244	407
		157	424				123			118		115				108		119		96	259	422
		181					142			137		133								111	274	437

TEXAS

7%		7.25%	7.5%	7.75%		8%	8.25%
0	107	7.25	0	0	96	0	8.25
1		5002	1	1	109	1	5002
1			1	5	122	1	
7			6	6	135	6	
21			19	19	148	18	
35			33	32	161	31	
49			46	45	174		
64			59	58	187		
78			73	70			
92			86	83			

U — UTAH

4.75%		5%	5.25%		5.375%	5.5%		5.75%	5.875%	6%	6.125%	6.25%	7%	7.25%
0	221	0	0	199	0	0	190	5.75	5.875	0	6.125	0	0	7.25
1	242	1	1	219	1	1	209	5002	5002	1	5002	1	1	5002
1	263	1	1	238	1	1				2		0	4	2
10	284	9	9	257	9	9				8	8	8	7	7
31	305	29	28	276	27	27				24			23	21
52	326		47	295	46	45				41			27	35
73	347		66	314	65	63				58			47	49
94	368		85	333	83	81				74			63	64
115	389		104	352	102	99								78
136	410		123	371		118								92
157			142	390		136								107
178			161	409		154								
199			180			172								

V — VERMONT

3%	4%	5%	8%
0	0	0	0
1	1	1	1
4	2	2	0
13	10	10	18
33	20	20	31
66	50	40	43
100	80	56	56
133	100	68	68
166	120	81	81
200	140	93	93
		100	

VIRGINIA

ARLINGTON COUNTY 4%			4%	4.5%		FAIRFAX 5.5%		FAIRFAX CITY Meals tax 6.5%		HAMPTON Restaurant 7%		LEESBURG Meal tax 7%	RICHMOND Restaurant 7%	ALEXANDRIA 7.5%	NEWPORT NEWS 7.5%		RICHMOND 7.5%	Restaurant 8%	
0	214	484	0	0	188	0	149	0	124	0	114	0	0	7.5	0	116	0	0	114
1	234	512	1	1	211	1	166	1	144	1	134	1	1	5002	1	122	1	1	114
21	259	537	2	5	233	1	188	1	166	13	149	1	1		1	144	2	5	134
14	284		12	15	255	11	211	11	174	14	159	7	14		11	149	6	14	134
34	314		37	33	277	14	233	24	188	29	184	21	14		16	166	19	34	159
59	334		62	55	299	33	249	33	211	34	184	35	34		33	183	33	44	
84	359		87	77		55	255	55		44	214	49	59		49	188	46	44	
114	384		112	99		77		74		59	214	64	59		55	211	59	59	
134	414		137	122		99		77		74	234	78	84		77			59	
159	434			144		122		99		84	249	92	84		83			84	
184	459			166		144		122		114	259	107	114		99			84	

VIRGINIA

ROANOKE CITY VA BEACH 8.5%		9%	NORFOLK CITY Meal tax 9%			CITY OF RICHMOND Food tax 9.5%			9.5%		
0	99	9	0	99	211	0	89	205	0	89	209
1	112	5002	1	99	233	1	99		1	99	
1	122		6	122	233	1	110		1	109	
11	137		11	122		5	121		9	122	
12	144		33	144		15	131		11	129	
33	162		44	144		26	142		29	144	
37	166		44	166		36	152		33	149	
55	187		55	166		47	163		49	166	
62	188		55	188		57	173		55	169	
77	211		77	188		68	184		69	188	
87			77	211		78	194		77	189	

W — WASHINGTON

7%		7.2%	7.3%		7.5%		7.55%	4.125%			7.8%	7.9%	8%	8.1%		Combined 8.1%	8.2%			8.7%
0	131	0	0	129	0	126	0	0	124	282	7.8	0	0	0	117	8.1	0	115	262 408	0
1		1	1	143	1	139	1	1	138		1	1	1	1	129	2	1	128	274 420	1
1		1	1	156	1	153	2	3	151		0	2	1	0	141	0	1	140	286 432	1
7		6	6	170	6	166	7	7	164		7	6	6	6	154	6	6	152	296 445	5
21		20	19	184	19	179	19	19	177		19	18	18	18	166	18	18	164	310 457	17
35		34	33	198	33	193	32	32	190		32	31	31	30	179	30	30	176	323 469	28
49		48	47	211	46	206	46	46	203		44	44		43	191	43	42	189	335 481	
64		62	61	225	59		59	59	217		57	56		55	203	55	54	201	347 493	
78		76	74	239	73		72	72	230		70			67		67	67	213	359 506	
92		90	88	252	86			85	243		83			80		80	79	225	371	
107		104	102		99			98	256					92			91	237	384	
118			115		113			111	269					104			103	249	396	

WEST VIRGINIA

2%	3%	4%	5%	6%
0	0	0	0	0
1	1	1	1	1
2	2	1	2	2
25	5	12	5	5
50	35	37	20	16
100	70	40	33	33
	100		50	50
	135		67	67
			84	84
			100	100
			116	116

WISCONSIN

4%	5%	5.5%		5.6%
0	0	0	190	0
1	1	1	209	1
1	1	1		1
12	10	9		8
37	21	27		26
	41	45		44
	61	63		62
	81	81		80
	110	99		98
		118		116
		136		133
		154		
		172		

WYOMING

3%	4%	5%	6%
0	0	0	0
1	1	1	1
2	2	2	3
24	24	24	24
49	37	29	24
83	62	49	34
116		69	51
149		89	68
		109	84

10. Tax table programming (continued)

Programming for Canadian Tax Tables Procedure

State sales tax calculation data tables for all of the states that make up all Canadian provinces are included on this page. Simply find your province in the tax tables and input the data shown in its table.

Programming Tax Table

Example 1: Federal tax: 7% (Add-on/Round-off)   Example 2: Ontario 10% (Tax-on-tax/Round-off)

MANITOBA/ SASKATCHEWAN 6%	ONTARIO 7%	N.B. & P.E.I. 8%	QUEBEC 9%
6 5002	7 5002	0 1 3 25 25 31 43 56	9 9002
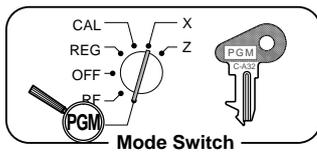
Mode Switch

⇩

3 [SUB TOTAL]

⇩

Assign Tax Table 1 ⇨ 0 1 2 5 [CA/AMT =/TEND]

⇩

7 ⇨ 7 [CA/AMT =/TEND]

⇩

5002 ⇨ 5 0 0 2 [CA/AMT =/TEND]

⇩

Press [CA/AMT =/TEND] ⇨ [CA/AMT =/TEND]

⇩

Terminate program ⇨ [SUB TOTAL]

NOVA SCOTIA 10%	ONTARIO 10%	QUEBEC 10%
10 5004	10 5004	10 5004

Mode Switch

⇩

3 [SUB TOTAL]

⇩

Assign Tax Table 2 ⇨ 0 2 2 5 [CA/AMT =/TEND]
(Table 3: 0 3 2 5)
(Table 4: 0 4 2 5)

⇩

10 ⇨ 1 0 [CA/AMT =/TEND]

⇩

5004 ⇨ 5 0 0 4 [CA/AMT =/TEND]

⇩

Press [CA/AMT =/TEND] ⇨ [CA/AMT =/TEND]

⇩

Terminate program ⇨ [SUB TOTAL]

- **4 tax tables are used for the following purpose:**
  Tax table 1: Used for the federal taxable items.
  Tax table 2: Used for the provincial taxable items.
  Tax table 3: Used for the provincial taxable items for different tax table.
  Tax table 4: Used for the provincial taxable items for different tax table.

CANADA TAX TABLES

* Must be programmed into Tax Table 2, 3 or 4.

CANADA									
NOVA SCOTIA 10% *	ONTARIO 10% *	QUEBEC 10% *	NEWFOUNDLAND 12% *	ONTARIO 12% *	BRITISH COLUMBIA 6% *	MANITOBA/ SASKATCHEWAN 6%	ONTARIO 7%	N.B. & P.E.I. 8% *	QUEBEC 9%
10 5004	10 5004	10 5004	12 5004	0 1 4 25 25 25 29 37 45 54	0 1 2 14 24 41 58 74	6 5002	7 5002	0 1 3 25 25 31 43 56	9 9002

Important!

Be sure you use the federal sales tax data with your provincial sales tax data. Even if your province use the same tax rate as another province, inputting the wrong data will result incorrect tax calculations.

Important!

Also you should select the Canadian sales tax system in the general control file (address 0422) on page 56.

General guide

This part of the manual introduces you to the cash register and provides a general explanation of its various parts.

Pop-up display
Main display
Mode switch
Keyboard

Take-up reel
Roll paper
Printer
Printer ink ribbon

Drawer
Drawer lock

Printer sub cover
Printer cover
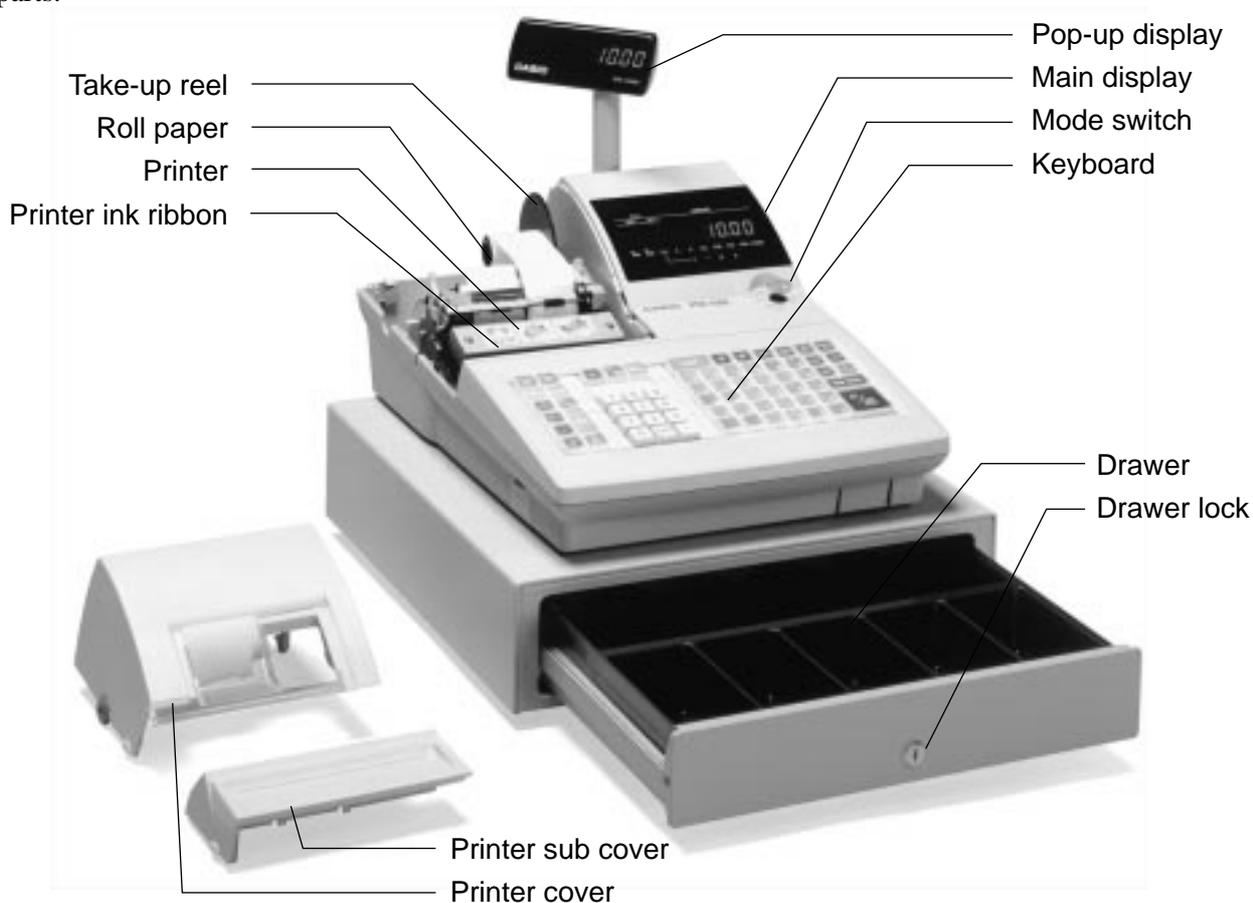
Roll paper

You can use the roll paper to print receipts and a journal (pages 9 ~ 10).

Receipt on/off key

Use the receipt on/off key in REG and RF modes to control issuance of receipts. In other modes, receipts or reports are printed regardless the receipt key setting.
A post-finalization receipt can still be issued after finalization when the key is set to off. The cash register can also be programmed to issue a post-finalization receipt even when the key is set to on.
When the register issues receipts, this indicator is lit.

Indicator
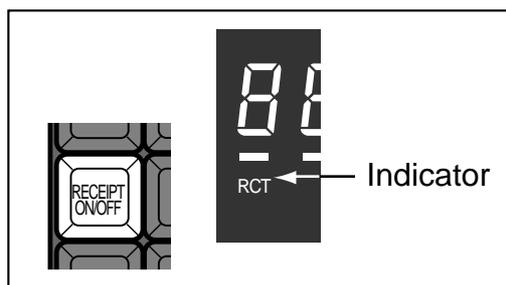
Printer ink ribbon

Provides ink for printing of registration details on the roll paper (page 89).

Mode key

The following two types of mode keys are provided with the unit.
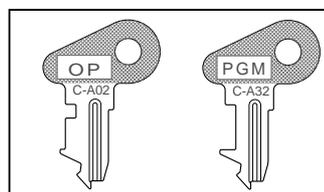
a. OP (Operator) key
   Switches between OFF, REG and CAL.
b. PGM (Program) key
   Switches to any position.

Mode switch

Use the mode keys to change the position of the mode switch and select the mode you want to use.
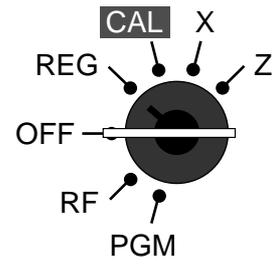
Mode switch	Mode name	Description
OFF	Stand-by	Any of the mode control keys can be inserted and removed from the mode switch in this position.
REG	Register	Used for normal sales transactions. Any of the mode control keys can be inserted and removed from the mode switch in this position.
CAL	Calculator	Used for calculator function.
RF	Refund Reg minus	Used for processing refunds. When the mode switch of the register is in RF position, you can access either the refund mode or the register minus mode.
X	Daily sales read	Used to obtain daily reports without resetting (clearing) all total data.
Z	Daily sales reset	Used to obtain daily reports while resetting (clearing) all total data.
PGM	Program	Used when programming functions and preset data such as unit prices and tax rates. Also used when reading program data.

Drawer

The drawer opens automatically whenever you finalize a registration and whenever you issue a read or reset report. The drawer will not open if it is locked with the drawer key.

Drawer lock

Use the drawer key to lock and unlock the drawer.

When the cash drawer does not open!

In case of power failure or the machine is in malfunction, the cash drawer does not open automatically. Even in these cases, you can open the cash drawer by pulling drawer release lever (see below).
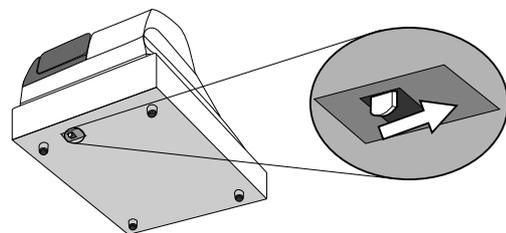
Important!

The drawer will not open, if it is locked with a drawer lock key.

Introducing PCR-1000

Display

Main display

Customer display

Department registration
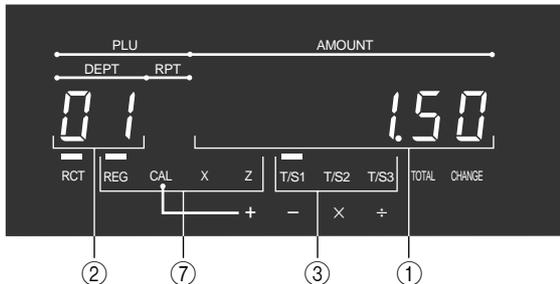
PLU registration
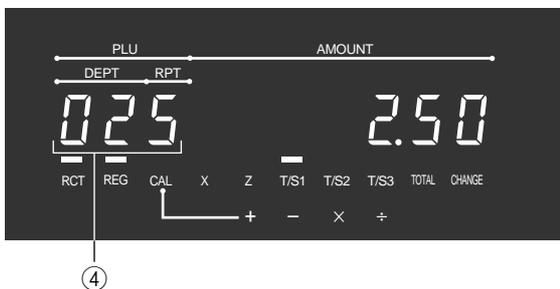
Repeat registration
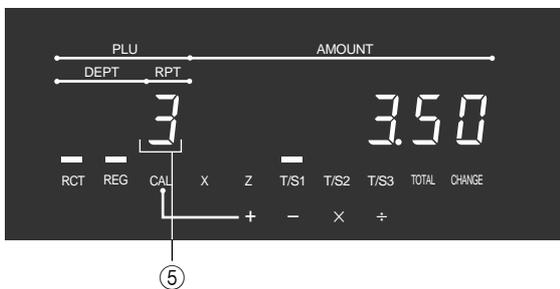
Totalize operation
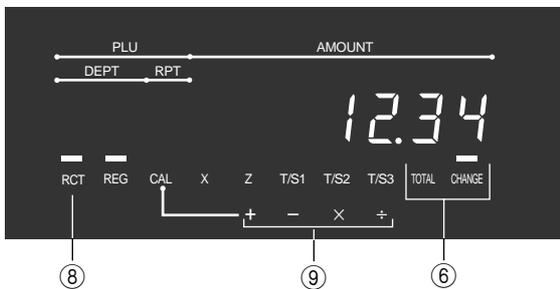
① **Amount/Quantity**

This part of the display shows monetary amounts. It also can be used to show the current date and time.

② **Department number**

When you press a department key to register a unit price, the corresponding department number (01 ~ 60) appears here.

③ **Taxable sales status indicators**

When you register a taxable item, the corresponding indicator is lit.

④ **PLU number**

When you register a PLU item, the corresponding PLU number appears here.
(Only the last digit is displayed on the customer display.)

⑤ **Number of repeats**

Anytime you perform a repeat registration (page 31), the number of repeats appears here.
Note that only one digit is displayed for the number of repeats. This means that a "5" could mean 5, 15 or even 25 repeats.

⑥ **Total/Change indicators**

When the TOTAL indicator is lit, the displayed value is monetary total or subtotal amount. When the CHANGE indicator is lit, the displayed value is the change due.

⑦ **REG, CAL, X, Z indicators**

REG: Indicates register mode
CAL: Indicates calculator mode
X: Indicates daily sales read mode
Z: Indicates daily sales reset mode

⑧ **RCT indicator**

When the register issues receipts, this indicator is lit.

⑨ **Arithmetic operation indicators**

Keyboard
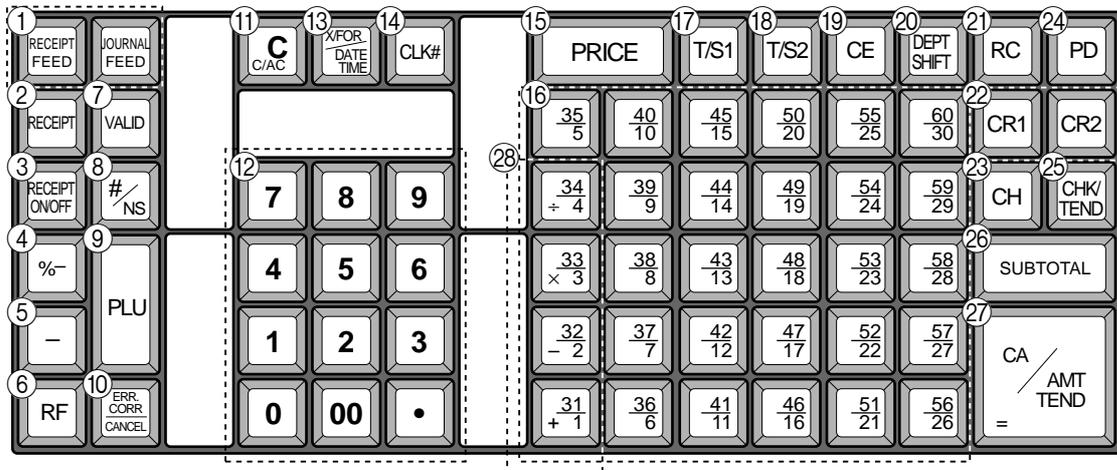
• Register Mode

① **Paper feed key** [RECEIPT FEED], [JOURNAL FEED]

Hold this key down to feed paper from the printer.

② **Post receipt key** [RECEIPT]

Use this key to produce a post-finalization receipt.

③ **Receipt on/off key** [RECEIPT ON/OFF]

Use this key pressing two times to change the status "receipt issue" or "no receipt." In case of "receipt issue", the "RCT" indicator is lit.

④ **Discount key** [%−]

Use this key to register discounts.

⑤ **Minus key** [−]

Use this key to input values for subtraction.

⑥ **Refund key** [RF]

Use this key to input refund amounts and void certain entries.

⑦ **Validation key** [VALID]

Use this key to validate transaction amounts on slip.

⑧ **Non-add/No sale key** [#/NS]

Non-add key: To print reference number (to identify a personal check, credit card, etc.) during a transaction, use this key after some numerical entries.

No sale key: Use this key to open the drawer without registering anything.

⑨ **PLU key** [PLU]

Use this key to input PLU numbers.

⑩ **Error correction/Cancellation key** [ERR CORR/CANCEL]

Use this key to correct registration errors and to cancel registration of entire transactions.

⑪ **Clear key** [C/AC]

Use this key to clear an entry that has not yet been registered.

⑫ **Ten key pad** [0], [1] ~ [9], [00], [·]

Use these keys to input numbers.

⑬ **Multiplication/For/Date/Time key** [X/FOR DATE TIME]

Use this key to input a quantity for a multiplication operation and registration of split sales of packaged items. Between transactions, this key displays the current time and date.

⑭ **Clerk number key** [CLK#]

Use this key to sign clerk on and off the register.

⑮ **Price key** [PRICE]

Use this key to register an amount to an open PLU when a PLU is used as an open PLU.

⑯ **Department keys** [+31], [−32], [×33] ~ [60/30]

Use these keys to register items to departments.

⑰ **Tax status shift 1 key** [T/S1]

Use this key to change the Taxable 1 status of the next item.

⑱ **Tax status shift 2 key** [T/S2]

Use this key to change the Taxable 2 status of the next item.

⑲ **Currency exchange key** [CE]

Use this key to calculate subtotal amounts or paying amount dues in foreign currency.

㉚ **Department shift key** `DEPT/SHIFT`

Use this key to shift the department key number from 1 through 30 to 31 through 60.

`+ 31 1` → Dept. 1		`DEPT/SHIFT` `+ 31 1` → Dept. 31	
`− 32 2` → Dept. 2		`DEPT/SHIFT` `− 32 2` → Dept. 32	
⋮		⋮	
`60 30` → Dept. 30		`DEPT/SHIFT` `60 30` → Dept. 60	

㉑ **Received on account key** `RC`

Use this key following a numeric entry to register money received for non-sale transactions.

㉒ **Credit key** `CR1`, `CR2`

Use this key to register a credit sale.

㉓ **Charge key** `CH`

Use this key to register a charge sale.

㉔ **Paid out key** `PD`

Press this key following a numeric entry to register money paid out from the drawer.

㉕ **Check key** `CHK/TEND`

Use this key to register a check tender.

㉖ **Subtotal key** `SUB TOTAL`

Use this key to display and print the current subtotal (includes add-on tax) amount.

㉗ **Cash/Amount tendered key** `CA/AMT =/TEND`

Use this key to register a cash tender.

• Calculator Mode

④ **Percent key** `%−`

⑧ **Drawer open key** `#/NS`

⑨ **Memory recall key** `RC`

⑪ **Clear key** `C CAC`

⑫ **Ten key pad** `0`, `1` ~ `9`, `00`, `·`

㉗ **Equal key** `CA/AMT =/TEND`

㉘ **Arithmetic operation key** `+ 31 1`, `− 32 2`, `× 33 3`, `÷ 34 4`

How to read the printouts

- The journal and receipts are records of all transactions and operations.
- The contents printed on receipts and journal are almost identical.
- You can choose the journal skip function (page 57).
  If the journal skip function is selected, the cash register will print the total amount of each transaction, and the details of premium, discount and reduction operations only, without printing department and PLU item registrations on the journal.
- The following items can be skipped on receipts and journal.
  - Consecutive number
  - Taxable status
  - Taxable amount
  - Item counter

Receipt Sample

```
**************************
     * THANK YOU *
**      CALL AGAIN     **      — Logo message
**************************

*  COMMERCIAL MESSAGE  *
*  COMMERCIAL MESSAGE  *
*  COMMERCIAL MESSAGE  *      — Commercial message
*  COMMERCIAL MESSAGE  *

REG  03-04-2001 11:58        — Mode/Date/Time
C01    MC#01    000123       — Clerk/Machine No.
                              Consecutive No.

 1 DEPT01    T1    $1.00     — Q'ty/Item
 1 DEPT02    T1    $2.00
 5 DEPT03          $5.00
         7 No                — Item counter
   TA1            $3.00
   TX1            $0.15
   TL            $8.15
   CASH         $10.00
   CG            $1.85

***  BOTTOM MESSAGE   ***
***  BOTTOM MESSAGE   ***
***  BOTTOM MESSAGE   ***    — Bottom message
***  BOTTOM MESSAGE   ***
```

Journal Sample (Item lines Included)

```
REG  07-04-2001 11:58
C01     MC#01     000123
 1 DEPT01    T1    $1.00
 1 DEPT02    T1    $2.00
 5 DEPT03          $5.00
         7 No
   TA1            $3.00
   TX1            $0.15
   TL            $8.15
   CASH         $10.00
   CG            $1.85
REG  03-04-2001 11:59
C02     MC#01     000124
 1 DEPT01    T1    $1.00
 1 DEPT03    T1    $3.00
 1 DEPT02    T1    $2.00
 1 DEPT04    T1    $4.00
 5 DEPT05          $5.00
         9 No
   TA1           $10.00
   TX1            $0.50
   TL           $15.50
   CASH         $20.00
   CG            $4.50
```

Journal Sample (Item lines Skipped)

```
REG  07-04-2001 11:57
C01     MC#01     000123
         7 No
   TA1            $3.00
   TX1            $0.15
   TL            $8.15
   CASH         $10.00
   CG            $1.85
REG  03-04-2001 11:57
C02     MC#01     000124
         9 No
   TA1           $10.00
   TX1            $0.50
   TL           $15.50
   CASH         $20.00
   CG            $4.50
REG  03-04-2001 11:58
C01     MC#01     000125
         7 No
   TA1            $3.00
   TX1            $0.15
   TL            $9.35
   CASH         $10.00
   CG            $0.65
REG  03-04-2001 11:57
```

In the operation examples contained in this manual, the print samples are what would be produced if the roll paper is being used for receipts. They are not actual size. Actual receipts are 45 mm wide. Also, all sample receipts and journals are printout images.

How to use your cash register

The following describes the general procedure you should use in order to get the most out of your cash register.

BEFORE business hours…
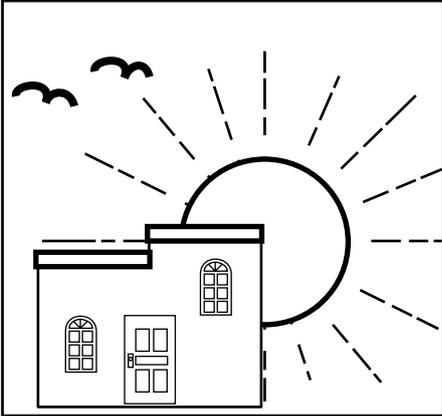
- Check to make sure that the cash register is plugged in securely.   Page 8
- Check to make sure there is enough paper left on the roll.   Pages 9, 10
- Read the financial totals to confirm that they are all zero.   Page 78
- Check the date and time.   Page 29

DURING business hours…

- Register transactions.   Page 30
- Periodically read totals.   Page 77
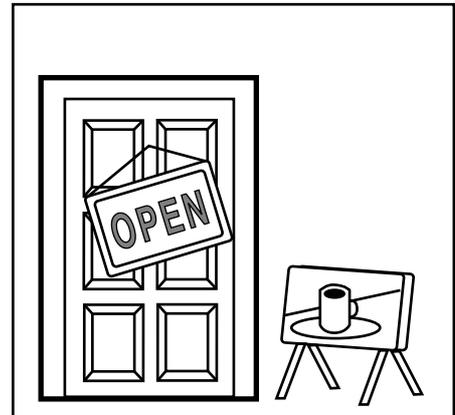
AFTER business hours…
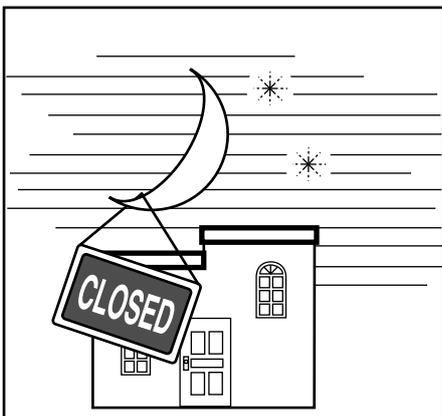
- Reset the daily totals.   Page 48
- Remove the journal.   Page 90
- Empty the cash drawer and leave it open.   Page 21
- Take the cash and journal to the office.

Basic Operations and Setups

Basic Operations and Setups

Assigning a clerk

```
  ALL
── Mode switch ──
```

Clerk secret number key

When the cash register is programmed to use clerk secret numbers for clerk or cashier assignment, the clerk buttons are not functional.

Clerk sign on

OPERATION	RECEIPT

Signing clerk 1 on: **1** ➡ CLK#

Signing clerk 2 on: **2** ➡ CLK#

.
.
.

Signing clerk 30 on: **3** **0** ➡ CLK#

Clerk secret number
(1 ~ 30 is set as default.)

```
*  COMMERCIAL MESSAGE  *

REG  03-04-2001 11:58
C01      MC#01      000123 ── Clerk name/machine No./consecutive No.

  1 DEPT01    T1     $1.00
```

• If you do not want the clerk secret number to be shown on the display, press CLK# before entering the number.

Clerk sign off

OPERATION

Signing clerk off: **0** ➡ CLK#
(except PGM mode)

• The current clerk is also signed off whenever you set the mode switch to OFF position.

Important!

• The error code "E008" appears on the display whenever you try to perform a registration, a read/reset operation without signing on.
• A clerk cannot sign on unless other clerk is signed off.
• The signed on clerk is also identified on the receipt/journal.

Displaying the time and date

REG

Mode switch
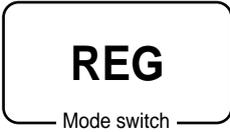
You can show the time or date on the display of the cash register whenever there is no registration being made.

To display and clear the time

OPERATION	DISPLAY
X / FOR / DATE / TIME	`08-30.`
Time appears on the display	Hour Minutes
C / C/AC	`0.00`
Clears the time display	

To display and clear the date

OPERATION	DISPLAY
X / FOR / DATE / TIME	`08-31.`
	(Time is displayed first)
X / FOR / DATE / TIME	`03-04-2001`
Date appears on the display	Month Day Year
C / C/AC	`0.00`
Clears the date display	

Preparing coins for change

REG

Mode switch

You can use the following procedure to open the drawer without registering an item. This operation must be performed out of a sale.
(You can use the [RC] key instead of the [#/NS] key. See page 44.)

Opening the drawer without a sale

OPERATION	RECEIPT
#/NS	REG 03-04-2001 10:00 C01 MC#01 000001 #/NS ·········

Basic Operations and Setups

Preparing and using department keys

Registering department keys

REG

Mode switch

The following examples show how you can use the department keys in various types of registrations.

Single item sale

Example 1

	OPERATION	RECEIPT

Item	Unit price	$1.00
	Quantity	1
	Dept.	1
Payment	Cash	$1.00

1 **00**
Unit price

31 + 1
Department

CA/AMT = /TEND

```
REG  03-04-2001 10:05      — Date/time
C01    MC#01    000002      — Mode/consecutive No.

1 DEPT01          $1.00     — Department No./unit price
   TL        $1.00          — Total amount
   CASH          $1.00
```

Example 2 (Subtotal registration and change computation)

	OPERATION	RECEIPT

Item	Unit price	$12.34
	Quantity	1
	Dept.	1
Payment	**Cash**	**$20.00**

1 **2** **3** **4**
Unit price

31 + 1
Department

SUB TOTAL

2 **0** **00** **CA/AMT - /TEND**
Amount tendered

```
REG  03-04-2001 10:10
C01    MC#01    000003

1 DEPT01         $12.34
   TL       $12.34        — Total amount
   CASH         $20.00    — Amount tendered
   CG            $7.66    — Change
```

Example 3 (Registering department 31 through 60)

	OPERATION	RECEIPT

Item	Unit price	$1.00
	Quantity	1
	Dept.	**31**
Payment	Cash	$1.00

1 **00**

DEPT SHIFT

Designating department 31 to 60, press **DEPT SHIFT**.

31 + 1

CA/AMT = /TEND

```
REG  03-04-2001 10:15
C01    MC#01    000004

1 DEPT31          $1.00
   TL        $1.00
   CASH          $1.00
```

Repeat

OPERATION **RECEIPT**

	Unit price	$1.50
Item	**Quantity**	**3**
	Dept.	1
Payment	Cash	$10.00

`1` `5` `0` `31 +1`
`31 +1`
`31 +1`
`SUB TOTAL`
`1` `0` `00` `CA/AMT =/TEND`

```
REG  03-04-2001 10:20
C01    MC#01    00005

1 DEPT01          $1.50
1 DEPT01          $1.50 —— Repeat
1 DEPT01          $1.50 —— Repeat
   TL          $4.50
   CASH         $10.00
   CG           $5.50
```

Multiplication

OPERATION **RECEIPT**

	Unit price	$1.00
Item	**Quantity**	**12**
	Dept.	1
Payment	Cash	$20.00

`1` `2` `X/FOR DATE TIME`
Quantity
(4-digit integer/2-digit decimal)
`1` `00` `31 +1`
`SUB TOTAL`
`2` `0` `00` `CA/AMT =/TEND`

```
REG  03-04-2001 10:25
C01    MC#01    000006

12 DEPT01        $12.00 —— Quantity/result
                           or *
    12      @1/ 1.00 —— Quantity/unit q'ty/@
DEPT01          $12.00 —— Result

   TL         $12.00
   CASH         $20.00
   CG           $8.00
```

Split sales of packaged items

OPERATION **RECEIPT**

	Unit price	4 for $10.00
	Quantity	**3**
Item	Dept.	1
	Taxable	No
Payment	Cash	$10.00

`3` `X/FOR DATE TIME`
Quantity being purchased
(4-digit integer/2-digit decimal)
`4` `X/FOR DATE TIME`
Package quantity
(4-digit integer/2-digit decimal)
`1` `0` `00` `31 +1`
Package price
`SUB TOTAL`
`1` `0` `00` `CA/AMT =/TEND`

```
REG  03-04-2001 10:30
C01    MC#01    000007

3 DEPT01          $7.50 —— Quantity/result
                           or *
    3      @4/ 10.00 —— Quantity/unit q'ty/@
DEPT01           $7.50 —— Result

   TL          $7.50
   CASH         $10.00
   CG           $2.50
```

* See address 0522 of the general function program.

Basic Operations and Setups

Programming department keys

To program a unit price for each department

Different price

Same price

PGM Mode switch → 1 [SUB TOTAL] → ☐☐☐☐☐☐ → *Department → [SUB TOTAL]

Unit price
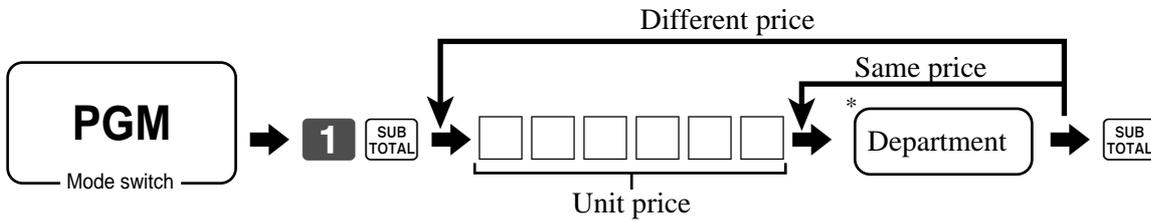
* If you want to designate department 31 through 60, press [DEPT SHIFT] first.

To program the tax calculation status for each department

Tax calculation status
This specification defines which tax table should be used for automatic tax calculation.
See page 14 for information on setting up the tax tables.

Programming procedure

To another department key

Same program

PGM Mode switch → 3 [SUB TOTAL] → 0 3 6 6 [SUB TOTAL] → ☐ → *Department → [SUB TOTAL]

D_1

* If you want to designate department 31 through 60, press [DEPT SHIFT] first.

for the U.S.			
Taxable 1 status	a	Yes = 1 No = 0	
Taxable 2 status	b	Yes = 2 No = 0	☐ (a+b+c) D_1
Taxable 3 status	c	Yes = 4 No = 0	
for Canada			
Non tax = 0 Taxable 3 = 3 Taxable 1 & 3 = 6 Taxable 1 = 1 Taxable 4 = 4 Taxable 1 & 4 = 7 Taxable 2 = 2 Taxable 1 & 2 = 5		Significant number	☐ D_1

To program high amount limit for each department

Programming procedure

To another department key

Same program

PGM Mode switch → 3 [SUB TOTAL] → 1 5 6 6 [SUB TOTAL] → ☐ ~ ☐ → *Department → [SUB TOTAL]

$D_6 \sim D_1$
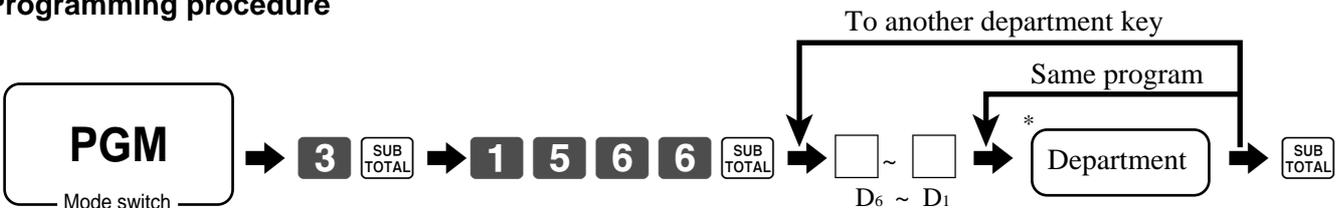
* If you want to designate department 31 through 60, press [DEPT SHIFT] first.

Description	Choice	Program code
High amount limit for entering unit price manually.	Significant numbers	☐☐☐ ~ ☐☐☐ $D_6\ D_5 \sim D_2\ D_1$

Worksheet for unit price/tax calculation status/high amount limit for each department

Mode/ sub mode	Unit price Program 1	Tax status Program 3 `0` `3` `6` `6` `SUB TOTAL`	High amount limit Program 3 `1` `5` `6` `6` `SUB TOTAL`
Department 1	`31` `+ 1`	`31` `+ 1`	`31` `+ 1`
Department 2	`32` `– 2`	`32` `– 2`	`32` `– 2`
Department 3	`33` `× 3`	`33` `× 3`	`33` `× 3`
Department 4	`34` `÷ 4`	`34` `÷ 4`	`34` `÷ 4`
Department 5	`35` `5`	`35` `5`	`35` `5`
Department 6	`36` `6`	`36` `6`	`36` `6`
Department 7	`37` `7`	`37` `7`	`37` `7`
Department 8	`38` `8`	`38` `8`	`38` `8`
Department 9	`39` `9`	`39` `9`	`39` `9`
Department 10	`40` `10`	`40` `10`	`40` `10`
Department 11	`41` `11`	`41` `11`	`41` `11`
Department 12	`42` `12`	`42` `12`	`42` `12`
Department 13	`43` `13`	`43` `13`	`43` `13`
Department 14	`44` `14`	`44` `14`	`44` `14`
Department 15	`45` `15`	`45` `15`	`45` `15`
Department 16	`46` `16`	`46` `16`	`46` `16`
Department 17	`47` `17`	`47` `17`	`47` `17`
Department 18	`48` `18`	`48` `18`	`48` `18`
Department 19	`49` `19`	`49` `19`	`49` `19`
Department 20	`50` `20`	`50` `20`	`50` `20`
Department 21	`51` `21`	`51` `21`	`51` `21`
Department 22	`52` `22`	`52` `22`	`52` `22`
Department 23	`53` `23`	`53` `23`	`53` `23`
Department 24	`54` `24`	`54` `24`	`54` `24`
Department 25	`55` `25`	`55` `25`	`55` `25`
Department 26	`56` `26`	`56` `26`	`56` `26`
Department 27	`57` `27`	`57` `27`	`57` `27`
Department 28	`58` `28`	`58` `28`	`58` `28`
Department 29	`59` `29`	`59` `29`	`59` `29`
Department 30	`60` `30`	`60` `30`	`60` `30`
Department 31	`DEPT SHIFT` `31` `+ 1`	`DEPT SHIFT` `31` `+ 1`	`DEPT SHIFT` `31` `+ 1`
Department 32	`DEPT SHIFT` `32` `– 2`	`DEPT SHIFT` `32` `– 2`	`DEPT SHIFT` `32` `– 2`
Department 33	`DEPT SHIFT` `33` `× 3`	`DEPT SHIFT` `33` `× 3`	`DEPT SHIFT` `33` `× 3`
Department 59	`DEPT SHIFT` `29`	`DEPT` `34`	`DEPT` `34`
Department 60	`DEPT SHIFT` `60` `30`	`DEPT SHIFT` `60` `30`	`DEPT SHIFT` `60` `30`

Basic Operations and Setups

Basic Operations and Setups

Registering department keys by programming data

REG — Mode switch
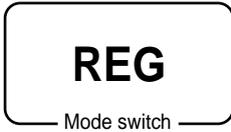
Preset price

			OPERATION	RECEIPT
Item	Unit price	($1.00)preset		
	Quantity	1		
	Dept.	2		
Payment	Cash	$1.00		

OPERATION:

```
[32 -2]
[CA/AMT =/TEND]
```

RECEIPT:
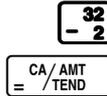
```
REG  03-04-2001 10:35
C01    MC#01    000008

 1 DEPTO2          $1.00
   TL            $1.00
   CASH           $1.00
```

— Department No./unit price

Preset tax status

			OPERATION	RECEIPT
Item 1	Unit price	($2.00)preset		
	Quantity	5		
	Dept.	3		
	Taxable	**(1)preset**		
Item 2	Unit price	($2.00)preset		
	Quantity	1		
	Dept.	4		
	Taxable	**(2)preset**		
Payment	Cash	$20.00		

OPERATION:

```
5 [X/FOR DATE TIME]
[33 ×3]
[34 +4]
[SUB TOTAL]
2 0 00 [CA/AMT =/TEND]
```

RECEIPT:
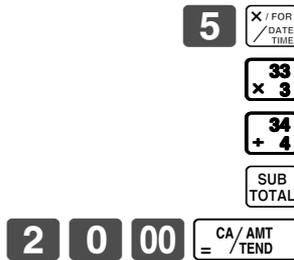
```
REG  03-04-2001 10:40
C01    MC#01    000009

 5 DEPTO3   T1   $10.00
 1 DEPTO4   T2    $2.00
   TA1            $10.00
   TX1             $0.40
   TA2             $2.00
   TX2             $0.20
   TL          $12.60
   CASH           $20.00
   CG              $7.40
```

- Tax status
- Taxable Amount 1
- Tax 1
- Taxable Amount 2
- Tax 2

Locking out high amount limitation

			OPERATION	RECEIPT
Item	Unit price	$1.05		
	Quantity	1		
	Dept.	3		
	Max.amount	**($10.00)preset**		
Payment	Cash	$2.00		

OPERATION:

```
1 0 5 0 [33 ×3]
ERROR ALARM (E037)
(Exceeding high amount)
[C]
1 0 5 [33 ×3]
[SUB TOTAL]
2 00 [CA/AMT =/TEND]
```

RECEIPT:
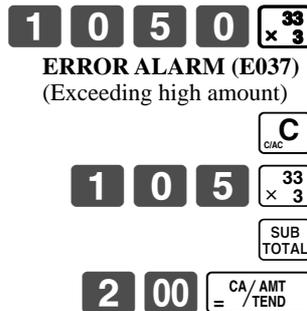
```
REG  03-04-2001 10:45
C01    MC#01    000010

 1 DEPTO3          $1.05
   TL            $1.05
   CASH           $2.00
   CG              $0.95
```

Preparing and using PLUs

This section describes how to prepare and use PLUs.

CAUTION:
• Before you use PLUs, you must first program the unit price.

Programming PLUs

To program a unit price for each PLU

To new (not sequencial) PLU

Different program to the next PLU

Same program

PGM
Mode switch → 1 [SUB TOTAL] → PLU No. [PLU] (1~600) → ▢▢▢▢▢▢ → [CA/AMT =/TEND] → [SUB TOTAL]

Unit price
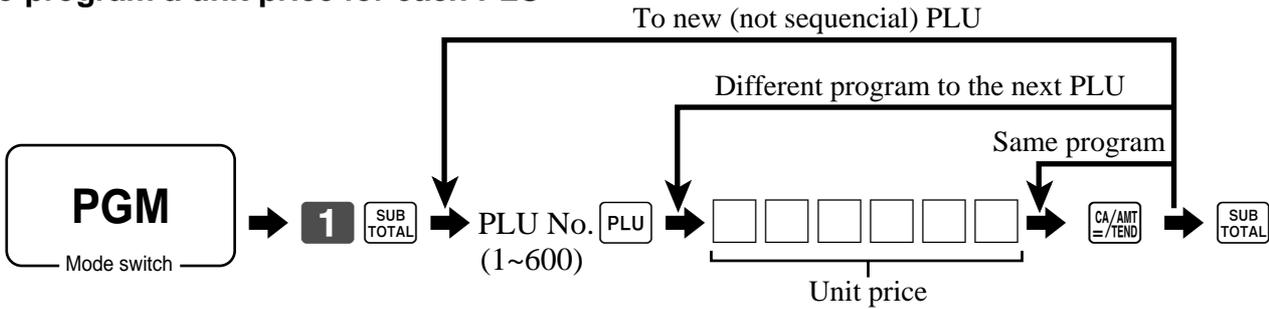
To program tax calculation status for each PLU

To new (not sequencial) PLU

Different program to the next PLU

Same program

PGM
Mode switch → 3 [SUB TOTAL] → 0 3 6 6 [SUB TOTAL] → PLU No. [PLU] (1~600) → ▢ D₁ → [CA/AMT =/TEND] → [SUB TOTAL]

for the U.S.			
Taxable 1 status	a	Yes = 1 No = 0	
Taxable 2 status	b	Yes = 2 No = 0	▢ (a+b+c) D_1
Taxable 3 status	c	Yes = 4 No = 0	
for Canada			
Non tax = 0 Taxable 3 = 3 Taxable 1 & 3 = 6 Taxable 1 = 1 Taxable 4 = 4 Taxable 1 & 4 = 7 Taxable 2 = 2 Taxable 1 & 2 = 5		Significant number	▢ D_1

Basic Operations and Setups

Basic Operations and Setups

Registering PLUs

```
┌─────────────────┐
│      REG        │
│ — Mode switch — │
└─────────────────┘
```

The following examples show how you can use PLUs in various types of registrations.

PLU single item sale

OPERATION   **RECEIPT**

	Unit price	($2.50)_{preset}
Item	Quantity	1
	PLU	**14**
Payment	Cash	$3.00

`1` `4`
PLU code

`PLU`

`SUB TOTAL`

`3` `00` `CA/AMT =/TEND`

```
REG  03-04-2001 10:50
C01     MC#01     000011

1 PLU0014           $2.50 ── PLU No./unit price
  TL            $2.50
  CASH              $3.00
  CG                $0.50
```

PLU repeat

OPERATION   **RECEIPT**

	Unit price	($2.50)_{preset}
Item	**Quantity**	**3**
	PLU	14
Payment	Cash	$10.00

`1` `4` `PLU`

`PLU`

`PLU`

`SUB TOTAL`

`1` `0` `00` `CA/AMT =/TEND`

```
REG  03-04-2001 10:55
C01     MC#01     000012

1 PLU0014           $2.50
1 PLU0014           $2.50
1 PLU0014           $2.50
  TL            $7.50
  CASH             $10.00
  CG                $2.50
```

PLU multiplication

OPERATION   **RECEIPT**

	Unit price	($2.00)_{preset}
Item	**Quantity**	**10**
	PLU	7
Payment	Cash	$20.00

`1` `0` `X/FOR DATE TIME`
Quantity
(4-digit integer/2-digit decimal)

`7` `PLU`

`SUB TOTAL`

`2` `0` `00` `CA/AMT =/TEND`

```
REG  03-04-2001 11:00
C01     MC#01     000013

10 PLU0007         $20.00 ── Quantity/result
                              or *
     10        @1/ 2.00 ── Quantity/unit q'ty/@
PLU0007            $20.00 ── Result

  TL           $20.00
  CASH             $20.00
  CG                $0.00
```

* See address 0522 of the general function program.

Split sales of packaged item

	OPERATION	RECEIPT

	Unit price	(5for$20.00)preset
Item	**Quantity**	**3**
	PLU	28
Payment	Cash	$15.00

OPERATION

3 [X/FOR DATE TIME]
Quantity being purchased
(4-digit integer/2-digit decimal)

5 [X/FOR DATE TIME]
Package quantity
(4-digit integer/2-digit decimal)

2 **8** [PLU]

[SUB TOTAL]

1 **5** [00] [CA/AMT TEND]

RECEIPT

```
REG  03-04-2001 11:05
C01    MC#01    000014

 3 PLU0028        $12.00     ← Quantity/result
                                or *
     3      @5/ 20.00       ← Quantity/unit q'ty/@
PLU0028          $12.00     ← Result

   TL       $12.00
   CASH        $15.00
   CG           $3.00
```

* See address 0522 of the general function program.

Shifting the taxable status of an item

REG
— Mode switch —

By pressing "Tax Shift" key, you can shift the taxable status of an item.

Calculation merchandise subtotal

	OPERATION	RECEIPT

	Dept. 1	$4.00
Item 1	Quantity	1
	Taxable	**(2)preset**
	Dept. 2	$2.00
Item 2	Quantity	1
	Taxable	**(No)→1**
	Dept. 3	$6.00
Item 3	Quantity	1
	Taxable	**(1)→1, 2**
	Dept. 4	$7.00
Item 4	Quantity	1
	Taxable	**(2)→No**
Payment	Cash	$20.00

OPERATION

4 [00] [+ 31/1]
[T/S1]
2 [00] [− 32/2]
Pressing [T/S1] changes the tax status
from Nontaxable to Taxable 1

[T/S2]
6 [00] [× 33/3]
Pressing [T/S2] changes the tax status
from Taxable 1 to Taxable 1, 2

[T/S2]
7 [00] [÷ 34/4]
Pressing [T/S2] changes the tax status
from Taxable 2 to Nontaxable

[SUB TOTAL]
2 **0** [00] [CA/AMT TEND]

RECEIPT

```
REG  03-04-2001 11:10
C01    MC#01    000015

1 DEPT01  T2    $4.00
1 DEPT02  T1    $2.00
1 DEPT03  T12   $6.00
1 DEPT04        $7.00
  TA1           $8.00
  TX1           $0.32
  TA2          $10.00
  TX2           $0.50
  TL       $19.82
  CASH        $20.00
  CG           $0.18
```

Important

• To change the tax status of the next item, be sure to press [T/S1], [T/S2]. (Note: You cannot change the tax status 3 during registration. Tax status 3 will only work if it is programmed for a particular department or PLU.)

• If the last item registered is programmed as nontaxable, a discount operation on this item is always nontaxable.

Basic Operations and Setups

Preparing and using discounts

This section describes how to prepare and register discount.

Programming discounts

To program a rate to the `%-` key

PGM
— Mode switch —

➡ **1** `SUB TOTAL` ➡ ☐☐☐☐ ➡ `%-` ➡ `SUB TOTAL`

Preset rate
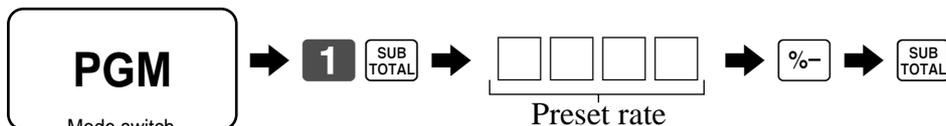
Example:

10% ⇨ **1 0**

5.5% ⇨ **5 · 5**

12.34% ⇨ **1 2 · 3 4**

Registering discounts

REG
— Mode switch —

The following example shows how you can use the `%-` key in various types of registration.

Discount for items and subtotals

			OPERATION	RECEIPT

	Dept. 1	$5.00
Item 1	Quantity	1
	Taxable	(1)_{preset}
	PLU 16	($10.00)_{preset}
Item 2	Quantity	1
	Taxable	(2)_{preset}
Discount	**Rate**	**(5%)**_{preset}
Subtotal discount	**Rate**	**3.5%**
	Taxable	**All taxable**
Payment	Cash	$15.00

OPERATION

5 00 `31 +1`
1 6 `PLU`
`%-`
Applies the preset discount rate to the last item registered.
`SUB TOTAL`
3 · 5 `%-`
The input value takes priority of the preset value.
`SUB TOTAL`
1 5 00 `CA/AMT =/TEND`

RECEIPT

```
REG  03-04-2001 11:15
C01    MC#01    000016

1 DEPT01    T1    $5.00
1 PLU0016   T2   $10.00
   5%
   %-       T2    -0.50
   ST             $14.50
   3.5%
   %-             -0.51
   TA1            $4.82
   TX1            $0.19
   TA2            $9.17
   TX2            $0.46
   TL         $14.64
   CASH          $15.00
   CG             $0.36
```

• You can manually input rates up to 4 digits long (0.01% to 99.99%).

Taxable status of the `%-` key

• Whenever you perform a discount operation on the last item registered, the tax calculation for discount amount is performed in accordance with the tax status programmed for that item.

• Whenever you perform a discount operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the `%-` key (see page 66).

Preparing and using reductions

This section describes how to prepare and register reductions.

Programming for reductions

You can use the $-$ key to reduce single item or subtotal amounts.

To program preset reduction amount

PGM — Mode switch ➡ **1** SUB/TOTAL ➡ ☐☐☐☐☐☐ ➡ $-$ ➡ SUB/TOTAL

Unit price
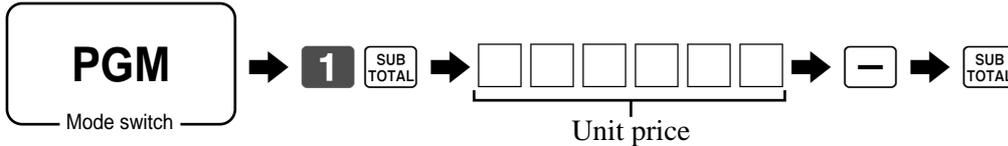
Registering reductions

REG — Mode switch

The following examples show how you can use the $-$ key in various types of registration.

Reduction for items

			OPERATION	RECEIPT
	Dept. 1	$5.00	**5** **00** **+31**	REG 03-04-2001 11:20
Item 1	Quantity	1	**2 5** $-$	C01 MC#01 000017
	Taxable	(1)preset	Reduces the last amount registered by the value input.	
Reduction	Amount	$0.25		1 DEPT01 T1 $5.00
	PLU 45	($6.00)preset	**4 5** PLU	- T1 -0.25
Item 2	Quantity	1	$-$	1 PLU0045 T1 $6.00
	Taxable	(1)preset	SUB/TOTAL	- T1 -0.50
Reduction	Amount	($0.50)preset	**1 1 00** CA/AMT TEND	TA1 $10.25
Payment	Cash	$11.00		TX1 $0.41

RECEIPT continued:
```
TL        $10.66
CASH         $11.00
CG            $0.34
```

- You can manually input reduction values up to 7 digits long.
- If you want to subtract the reduction amount from the department or PLU totalizer, program "Net totalling" (refer to page 57).

Basic Operations and Setups

Reduction for subtotal

			OPERATION	RECEIPT

Item 1	Dept. 1	$3.00	
	Quantity	1	
	Taxable	(1)preset	
Item 2	Dept. 2	$4.00	
	Quantity	1	
	Taxable	(2)preset	
Subtotal Reduction	Amount	$0.75	
	Taxable	(No)preset	
Payment	Cash	$7.00	

OPERATION:

`3` `00` `31 + 1`
`4` `00` `32 − 2`
`SUB TOTAL`
`7` `5` `−`

Reduces the subtotal by the value input here.

`SUB TOTAL`
`7` `00` `CA/AMT = /TEND`

RECEIPT:

```
REG  03-04-2001 11:25
C01    MC#01    000018

1 DEPT01    T1    $3.00
1 DEPT02    T2    $4.00
 -                -0.75
 TA1              $3.00
 TX1              $0.12
 TA2              $4.00
 TX2              $0.20
 TL            $6.57
 CASH            $7.00
 CG              $0.43
```

Taxable status of the [−] key
- Whenever you perform a reduction operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the [−] key (see page 67).

Registering credit and check payments

REG
— Mode switch —

The following examples show how to register credits and payments by check.

Check

			OPERATION	RECEIPT

Item	Dept. 1	$11.00	
	Quantity	1	
Payment	Check	$20.00	

OPERATION:

`1` `1` `00` `31 + 1`
`SUB TOTAL`
`2` `0` `00` `CHK/ TEND`

RECEIPT:

```
REG  03-04-2001 11:30
C01    MC#01    000019

1 DEPT01        $11.00
 TL          $11.00
 CHECK          $20.00
 CG             $9.00
```

Credit

			OPERATION	RECEIPT

Item	Dept. 4	$15.00	
	Quantity	1	
Reference	Number	1234	
Payment	Credit	$15.00	

OPERATION:

`1` `5` `00` `34 ÷ 4`
`SUB TOTAL`
`1` `2` `3` `4` `#/NS`
`CR1`

RECEIPT:

```
REG  03-04-2001 11:35
C01    MC#01    000020

1 DEPT04        $15.00
 #/NS             1234  — Reference No.
 TL          $15.00
 CREDIT1        $15.00
```

Mixed tender (cash, credit and check)

Item	Dept. 4	$55.00
	Quantity	1
Payment	**Check**	**$30.00**
	Cash	**$5.00**
	Credit	**$20.00**

OPERATION

5 5 00 [÷ 34/4]
[SUB TOTAL]
3 0 00 [CHK/ TEND]
5 00 [= CA/AMT /TEND]
[CR1]

RECEIPT

```
REG  03-04-2001 11:40
C01      MC#01      000021

1 DEPT04           $55.00
  TL           $55.00
  CHECK            $30.00
  CASH             $5.00
  CREDIT1          $20.00
```

Validation printing

REG
Mode switch

You can perform total amount validation following finalization using [CA/AMT/TEND], [CH], [CHK/TEND], [CR1], [CR2] keys and [RC], [PD] keys. Also you can perform single item validation.

Total amount validation

Item	Dept. 1	$14.00
	Quantity	1
Payment	Check	$20.00
Validation		

OPERATION

1 4 00 [+ 31/1]
[SUB TOTAL]
2 0 00 [CHK/ TEND]

RECEIPT

```
REG  03-04-2001 11:45
C01      MC#01      000022

1 DEPT01           $14.00
  TL           $14.00
  CHECK            $20.00
  CG               $6.00
```

① Open the journal window.

② Insert paper.

③ Press [VALID].
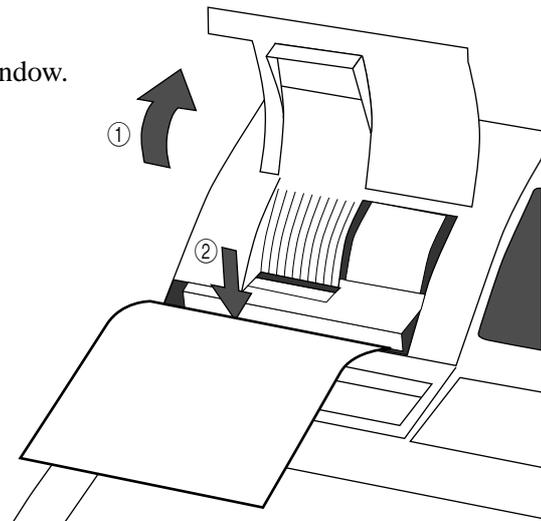
Basic Operations and Setups

Validation sample

```
                    135 mm ~ 210 mm
        ◄──────────────────────────────────────►
                                                        ── Mode (4 digits)
                                                        ── Clerk name (6 digits)
                                                        ── Date (6 digits), Time (4 digits)
                                                        ── Machine/Cons. No. (6 digits ea.)
                                                        ── Key descriptor
                                                        ── Amount

  Format A    REG C01   030400 1145 MC#01  000022 CHECK      $14.00

      Format B *  REG C01     030400 1145 MC#01  O22 CHECK        $14.00
```
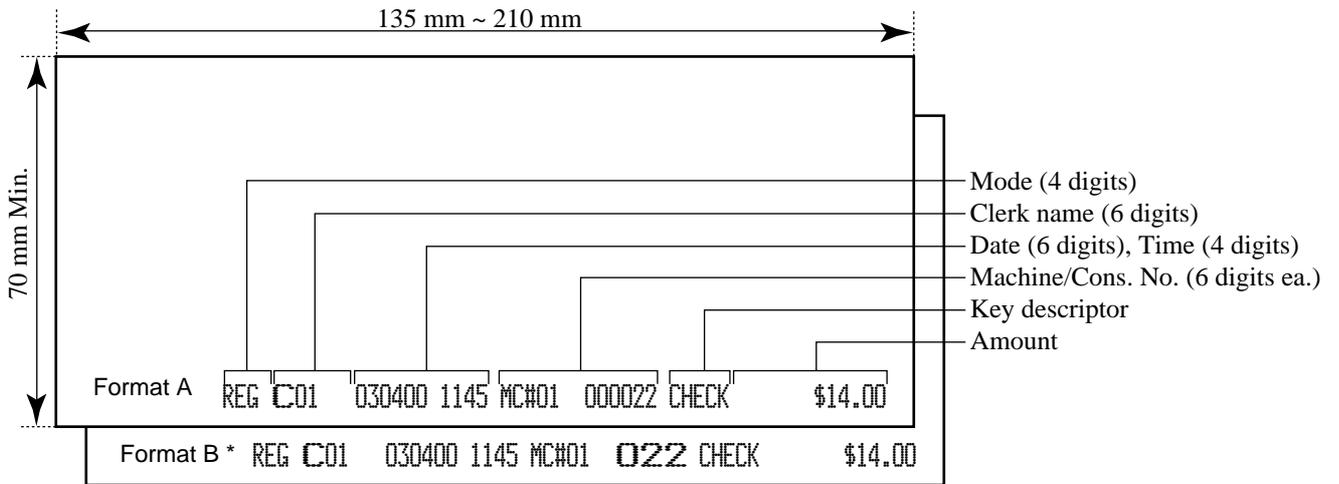
* Print consecutive No. by double sized letter (refer to the general control programming address 0522).

Registering returned goods in the REG mode

```
┌─────────────────────┐
│        REG          │
│                     │
│  ── Mode switch ──  │
└─────────────────────┘
```

The following example shows how to use the [RF] key in the REG mode to register goods returned by customers.

OPERATION   **RECEIPT**

Item 1	Dept. 1	$2.35
	Quantity	1
Item 2	Dept. 2	$2.00
	Quantity	1
Item 3	PLU 1	($1.20)preset
	Quantity	1
Returned Item 1	**Dept. 1**	**$2.35**
	Quantity	**1**
Returned Item 3	**PLU 1**	**($1.20)preset**
	Quantity	**1**
Payment	Cash	$2.00

OPERATION

[2] [3] [5] [31 +1]
[2] [00] [32 −2]
[1] [PLU]
[RF]
[2] [3] [5] [31 +1]

Press [RF] before the item you want to return.

[RF]
[1] [PLU]
[SUB TOTAL]
[CA/AMT = /TEND]

RECEIPT

```
REG  03-04-2001 11:50
C01      MC#01     000023

 1 DEPT01        $2.35
 1 DEPT02        $2.00
 1 PLU0001       $1.20
   RF          .........
 1 DEPT01        -2.35
   RF          .........
 1 PLU0001       -1.20
   TL          $2.00
   CASH         $2.00
```

Registering returned goods in the RF mode

RF

Mode switch
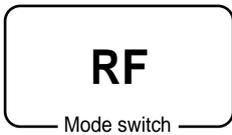
The following examples show how to use the RF mode to register goods returned by customers.

Normal refund transaction

	OPERATION	RECEIPT

Returned Item 1	Dept. 1	$1.50
	Quantity	2
Returned Item 2	PLU 2	($1.20)preset
	Quantity	6
Payment	Cash	$10.20

OPERATION

1 5 0 [+31/1]
[+31/1]
6 [X/FOR DATE TIME]
2 [PLU]
[CA/AMT = /TEND]

RECEIPT

```
RF 03-04-2001 11:55
C01     MC#01      000024

 1 DEPT01          $1.50
 1 DEPT01          $1.50
 6 PLU0002         $7.20
   TL        $10.20
   CASH           $10.20
```

— RF mode symbol

Reduction of amounts paid on refund

	OPERATION	RECEIPT

Returned Item 1	Dept. 3	$4.00
	Quantity	1
Reduction	Amount	$0.15
Returned Item 2	PLU 2	($1.20)preset
	Quantity	1
Discount	Rate	(5%)preset
Payment	Cash	$5.20

OPERATION

4 00 [X33/3]
1 5 [—]
2 [PLU]
[%—]
[SUB TOTAL]
[CA/AMT = /TEND]

RECEIPT

```
RF 03-04-2001 12:00
C01     MC#01      000025

 1 DEPT03    T1    $4.00
   -         T1   -0.15
 1 PLU0002   T2    $1.20
   5%
   %-        T2   -0.06
   TA1             $3.85
   TX1             $0.15
   TA2             $1.14
   TX2             $0.06
   TL         $5.20
   CASH            $5.20
```

Important!

• To avoid miss registrations in the RF mode, return the mode switch to the former position immediately.

Basic Operations and Setups

Registering money received on account

REG	
— Mode switch —	

The following example shows how to register money received on account. This registration must be performed out of a sale.

	OPERATION	**RECEIPT**

Received amount	**$700.00**

`7` `00` `00` `RC`

Amount can be up to 8 digits.

```
REG  03-04-2001 12:05
C01     MC#01    000026

   RC            $700.00
```

Registering money paid out

REG	
— Mode switch —	

The following example shows how to register money paid out from the register. This registration must be performed out of a sale.

	OPERATION	**RECEIPT**

Paid out amount	**$1.50**

`1` `5` `0` `PD`

Amount can be up to 8 digits.

```
REG  03-04-2001 12:10
C01     MC#01    000027

   PD             $1.50
```

Making corrections in a registration

There are three techniques you can use to make corrections in a registration.
- To correct an item that you input but not yet registered.
- To correct the last item you input and registered.
- To cancel all items in a transaction.

To correct an item you input but not yet registered

OPERATION	RECEIPT

2 00
C [C/AC] — Correction of unit price
1 00 [+31/1]

1 2 [×/FOR /DATE TIME]
C [C/AC] — Correction of quantity
1 1 [×/FOR /DATE TIME]
2 00 [−32/2]

2
C [C/AC] — Correction of PLU No.
3 [PLU]

1 5 [PLU]
Enter PLU No.

6 00
Enter unit price.

C [C/AC] — Correction of open PLU unit price
(Refer to page 61 for programming open PLU.)

1 5 [PLU]
Enter PLU No. again.

1 0 00 [PRICE]
Enter unit price again
and press [PRICE].

[SUB TOTAL]

1 0 00
C [C/AC] — Correction of partial tender amount
1 5 00 [=CA/AMT /TEND]

[CR1]

Receipt:
```
REG  03-04-2001 12:15
C01      MC#01     000028

 1 DEPT01          $1.00
11 DEPT02         $22.00
 1 PLU0003         $1.30
 1 PLU0015        $10.00
   TL           $34.30
   CASH          $15.00
   CREDIT1       $19.30
```

Basic Operations and Setups

To correct an item you input and registered

OPERATION	RECEIPT

OPERATION:

`1` `00` `+31`
`2` `00` `-32`

`-32`
`ERR CORR./CANCEL` — Clearance

`2` `PLU`
`ERR CORR./CANCEL` — Correction of PLU No.
`5` `PLU`

`1` `5` `PLU`
`6` `00` `PRICE`
`ERR CORR./CANCEL` — Correction of open PLU unit price
`1` `5` `PLU`
`1` `0` `00` `PRICE`

`8` `X/FOR DATE/TIME`
`4` `00` `÷34`
`ERR CORR./CANCEL` — Correction of quantity
`6` `X/FOR DATE/TIME`
`4` `00` `÷34`

`SUB TOTAL`
`5` `0` `%-`
`ERR CORR./CANCEL` — Correction of discount
`SUB TOTAL`
`5` `%-`

`RF` `2` `00` `-32`
`ERR CORR./CANCEL` — Correction of refund item
`RF` `2` `2` `0` `-32`
`SUB TOTAL`

`2` `0` `00` `CA/AMT =/TEND`
`ERR CORR./CANCEL` — Correction of partial tender
`1` `5` `00` `CA/AMT =/TEND`
`CR1`

RECEIPT:

```
REG  03-04-2001 12:20
C01      MC#01      000029

1 DEPT01           $1.00
1 DEPT02           $2.00
1 DEPT02           $2.00
  CORR            -2.00
1 PLU0002          $1.20
  CORR            -1.20
1 PLU0005          $1.50
1 PLU0015          $6.00
  CORR            -6.00
1 PLU0015         $10.00
8 DEPT04          $32.00
  CORR           -32.00
6 DEPT04          $24.00
  ST              $38.50
  50%
  %-             -19.25
  CORR           $19.25
  ST              $38.50
   5%
  %-              -1.93
  RF          .........
1 DEPT02           -2.00
  CORR             $2.00
  RF          .........
1 DEPT02           -2.20
  TL            $34.37
  CASH           $20.00
  CORR           -20.00
  CASH           $15.00
  CREDIT1        $19.37
```

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To cancel all items in a transaction

OPERATION	RECEIPT

```
1 00 [+ 31 1]
2 00 [- 32 2]
3 00 [× 33 3]
4 00 [÷ 34 4]
      SUB
      TOTAL
```

Pressing `SUB TOTAL` key is necessary to cancel the transaction.

```
ERR CORR.
CANCEL
```

```
REG  03-04-2001 12:25
C01    MC#01    000030

1 DEPT01         $1.00
1 DEPT02         $2.00
1 DEPT03         $3.00
1 DEPT04         $4.00
  CANCEL      .........
```

No sale registration

```
  REG

Mode switch
```

You can use the following procedure to open the drawer without registering a sale. This operation must be performed out of a sale.

OPERATION	RECEIPT

```
#/NS
```

```
REG  03-04-2001 12:30
C01    MC#01    000031

  #/NS        .........
```

Basic Operations and Setups

Printing the daily sales reset report

This report shows daily sales totals.

OPERATION	REPORT

Z1
Mode switch

↓

CA/AMT
= /TEND
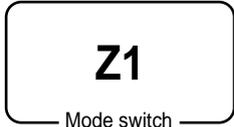
Z 03-04-2001 18:50	Date/time
C01 MC#01 000123	Clerk name/mc No./consecutive No.

Z BATCH01	Report title

Z FIX 0001	Fixed total report title/reset counter
0001011	Report code
GROSS 981.25	Gross total *2
$6,574.40	
NET No 111	Net total *2
$7,057.14	
CAID $1,919.04	Cash in drawer *2
CHID $139.04	Charge in drawer *2
CKID $859.85	Check in drawer *2
CRID(1) $709.85	Credit in drawer *2

RF No 3	Refund mode *2
$10.22	

TA1 $2,369.69	Taxable 1 amount *2
TX1 $128.86	Tax 1 amount *2
TA2 $2,172.96	Taxable 2 amount *2
TX2 $217.33	Tax 2 amount *2

GT1 $00000000125478.96	Grand total 1 *2
GT2 $00000000346284.23	Grand total 2 *2
GT3 $00000000123212.75	Grand total 3 *2
Z TRANS 0001	Function key report title/reset counter
0001012	Report code
CASH No 362	Function key count/amount *1
$1,638.04	
CHARGE No 56	
$1,174.85	
RC No 4	

$810.00	
PD No 5	
$520.00	
$5.00	
CORR No 14	
$39.55	
VLD No 19	
RCT No 3	
#/NS No 5	

Z DEPT 0001	Department report title/reset counter
0001015	Report code
DEPT01 203.25	Department count/amount *1
$1,108.54	
DEPT02 183	
$1,362.26	
DEPT60 5	
$17.22	

TL 421.25	Department total count/total amount
$2,872.28	

Z CASHIER 0001	Clerk report title/reset counter
0001017	Report code
C01 1	Clerk name/drawer No. *1
NET No 111	Net total *1
$1,845.35	
C02 1	Clerk name/drawer No.

*1 Zero totalled departments/functions/clerks are not printed by programming.

*2 These items can be skipped by programming.

This chapter describes more sophisticated operations that you can use to suit the needs of your retail environment.

Single item cash sales

A department key or PLU programmed with single item sale status finalizes the transaction as soon as it is registered.

The single item sales function can only be used for cash sales.

Example 1

| | | OPERATION | RECEIPT |

Item	Dept. 1	$1.00	
	Quantity	1	
	Status	**S.I.S**	
Payment	Cash	$1.00	

OPERATION

`1` `00` `+31 1`

The transaction is immediately finalized.

RECEIPT

```
REG  03-04-2001 13:00
C01     MC#01     000101

1 DEPT01            $1.00
  TL         $1.00
  CASH             $1.00
```

— Mode/date/time
— Clerk/consecutive No.
— Department No./unit price
— Total amount

Example 2

Item	Dept. 1	($1.00)
	Quantity	3
	Status	**S.I.S**
Payment	Cash	$3.00

OPERATION

`3` `X/FOR DATE TIME`
`+31 1`

The transaction is immediately finalized.

RECEIPT

```
REG  03-04-2001 13:05
C01     MC#01     000102

3 DEPT01            $3.00
  TL         $3.00
  CASH             $3.00
```

Example 3

Item 1	Dept. 3	$2.00
	Quantity	1
	Status	Normal
Item 2	Dept. 1	($1.00)
	Quantity	1
	Status	**S.I.S**
Payment	Cash	$3.00

OPERATION

`2` `00` `X33 3`
`+31 1`

The transaction is not finalized. Because another item is registered before the single item sales department.

`CA/AMT =/TEND`

RECEIPT

```
REG  03-04-2001 13:10
C01     MC#01     000103

1 DEPT03            $2.00
1 DEPT01            $1.00
  TL         $3.00
  CASH             $3.00
```

For programming single item status, refer to page 63.

Currency exchange function

When $\boxed{\text{CE}}$ is pressed, a current subtotal including tax is converted directly into foreign currency and the result is displayed, and the subsequent finalization is handled using the foreign currency. The currency exchange function is released by finalizing a transaction, partial tender operation, receipt issuance, or by pressing $\boxed{\text{SUB TOTAL}}$. Before using the currency exchange function, it is necessary to program the conversion rate.

Registering foreign currency

Full amount tender in foreign currency

* Pre-programmed exchange rate: ¥ 100 = $0.9524

Important!

Tenders in a foreign currency can be registered using $\boxed{\text{CA/AMT =/TEND}}$ and $\boxed{\text{CHK/ TEND}}$ only. Other finalize keys cannot be used.

OPERATION	DISPLAY	RECEIPT

$\boxed{1}\boxed{0}\boxed{00}\boxed{+\ ^{31}_{1}}$ ← Enter the unit price and press the applicable department key.	`0 1   10.00`
	(Displays in $)
		`REG  03-04-2001 13:35`
		`C01    MC#01    000110`
		
		`1 DEPT01        $10.00`
		`1 DEPT02        $20.00`
		`   TL      $30.00`
		`   CE`
		`   CASH        ¥5,000`
		`   CASH        $47.62`
		`   CG          $17.62`

$\boxed{2}\boxed{0}\boxed{00}\boxed{-\ ^{32}_{2}}$ ← Enter the next unit price and press the applicable department key.	`0 2   20.00` (Displays in $)	
$\boxed{\text{CE}}\boxed{\text{SUB TOTAL}}$ ← Press $\boxed{\text{CE}}$ and $\boxed{\text{SUB TOTAL}}$ without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.	`3.150` (Displays in ¥: 3,150)	
$\boxed{5}\boxed{0}\boxed{00}\boxed{\text{CE}}$ (5,000) ← Enter the amount tendered in yen and press $\boxed{\text{CE}}$. This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.	`5.000`	
$\boxed{=\ \text{CA/AMT} /\text{TEND}}$ ← Press to finalize the transaction. Note that you do not need to reenter the dollar amount. The register automatically calculates the change amount due in dollars and shows it on the display, receipts and journal.	`17.62` (Displays in $)	
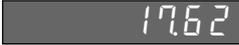
Advanced Operations and Setups

Partial tender in a foreign currency

* Pre-programmed exchange rate: ¥ 100 = $0.9524

Important!

Partial tender in a foreign currency can be registered using $\boxed{\text{CA/AMT}}$ and $\boxed{\text{CHK/TEND}}$ only. Other finalization keys cannot be used, but the remaining tender can be finalized using any finalize key.

OPERATION		DISPLAY	RECEIPT

1 0 00 $\boxed{^{31}_{+1}}$	◄ Enter the unit price and press the applicable department key.	*01 10.00*
		 (Displays in $)
			REG 03-04-2001 13:40
			 C01 MC#01 000111
			
			 1 DEPT01 $10.00
			 1 DEPT02 $20.00
			    TL $30.00
			    CE
			    CASH ¥2,000
			    CASH $19.05
			    CHECK $10.95

2 0 00 $\boxed{^{32}_{-2}}$	◄ Enter the next unit price and press the applicable department key.	*02 20.00* (Displays in $)	
$\boxed{\text{CE}}$ $\boxed{\text{SUB TOTAL}}$	◄ Press $\boxed{\text{CE}}$ and $\boxed{\text{SUB TOTAL}}$ without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.	*3 150* (Displays in ¥: 3,150)	
2 0 00 $\boxed{\text{CE}}$ (2,000)	◄ Enter the partial amount tendered in yen and press $\boxed{\text{CE}}$. This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.	*2.000*	
$\boxed{^{\text{CA/AMT}}_{=/\text{TEND}}}$	◄ Press $\boxed{\text{CA/AMT}}$ to specify cash tender for the yen partial tender. Note that you do not need to reenter the dollar amount. The register automatically deducts the dollar equivalent of the yen amount tendered from the total amount due and shows the amount on the display.	*10.95* (Displays in $)	
$\boxed{\text{CHK/TEND}}$	◄ Press to finalize the transaction.	*10.95* (Displays in $)	

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Currency exchange programming

Attribution of [CE] programming

Please refer to page 67.

Exchange rate programming
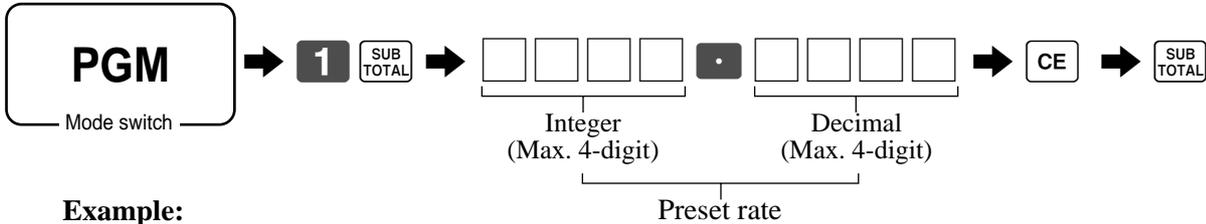
Example:

$1.00 = ¥110.50 ⇨ `1` `·` `1` `0` `5`

¥100 = $0.9050 ⇨ `0` `·` `9` `0` `5`

Post-finalization receipt

The post-finalization receipt lets you issue a receipt after finalization of the transaction.

Note that all of the following conditions must be satisfied.

- The receipt key must be set to OFF. (RCT indicator: OFF)
- The transaction must be finalized in the REG or RF mode using the [CA/AMT =/TEND], [CH], [CR1], [CR2] or [CHK/TEND] key.

Post-finalization receipt example

			OPERATION	RECEIPT

Item 1	Unit price	$10.00
	Quantity	1
	Dept.	1
Item 2	Unit price	$20.00
	Quantity	1
	Dept.	2
Payment	Cash	$30.00

OPERATION

`1` `0` `00` `31 + 1`

`2` `0` `00` `32 - 2`

`SUB TOTAL`

`3` `0` `00` `CA/AMT =/TEND`

Receipt is not issued.

`RECEIPT`

Post-finalization receipt is issued.

RECEIPT

```
REG  03-04-2001 13:45
C01     MC#01    000112
                    CT  1 ── Number of customer

1 DEPT01         $10.00
1 DEPT02         $20.00
   TL       $30.00
   CASH          $30.00
   CG            $0.00
```

Important!

- Only one post-finalization receipt per transaction can be issued after initialization.

  You can program the number of post-finalization receipt per transaction (refer to page 68).

Advanced Operations and Setups

Calculator functions

While registering at the REG mode, you can switch to CAL mode and then return to REG mode to resume the registration.

Example 1 (Calculation examples)

	OPERATION	DISPLAY
Clear	[C] [C]	$\begin{bmatrix} & 0 \end{bmatrix}$
5+3-2=	5 [+31] 3 [-32] 2 [CA/AMT]	6.
(23-56)×78=	2 3 [-32] 5 6 [×33] 7 8 [CA/AMT]	-2574.
(4×3-6)/3.5+8=	4 [×33] 3 [-32] 6 [÷34] 3 [·] 5 [+31] 8 [CA/AMT]	9.714285714
12 % on 1500	1 5 0 0 [-32] [×33] 1 2 [%−]	180.

Example 2 (Memory recall)

				OPERATION	DISPLAY/RECEIPT
Item 1	Unit price	$10.00		**Turn to REG**	REG 03-04-2001 13:40 C01 MC#01 000111 1 DEPT01 T1 $10.00 1 DEPT02 T1 $20.00
	Quantity	1		1 0 00 [+31]	
	Dept.	1		2 0 00 [-32]	
	Taxable	(1)preset		[SUB TOTAL]	
Item 2	Unit price	$20.00		**Turn to CAL**	
	Quantity	1		[RC]	31.5
	Dept.	2		Memory recall: Recalls subtotal amount	
	Taxable	(1)preset		[÷34] 3 [CA/AMT]	10.5
Payment by 3 persons **Cash $10.50each**				Divides the subtotal by 3 persons	

Turn to REG

[RC]

Memory recall:
Recalls the result amount

[CA/AMT]

[RC] [CA/AMT]

[RC] [CA/AMT]

```
TA1              $30.00
TX1               $1.50
TL          $31.50
CA              $10.50
CA              $10.50
CA              $10.50
CG               $0.00
```

Programming to clerk

You can program up to 4-digit assigning number (clerk number), trainee status of clerk (i.e. training cashier) and commission rate for each clerk.

Programming clerk number
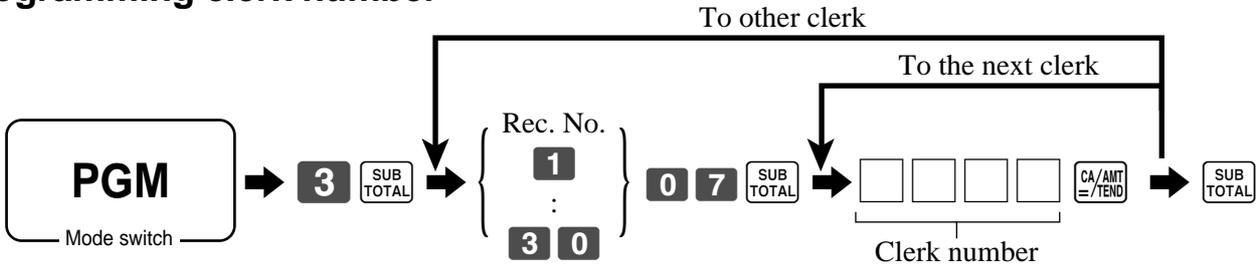
Programming trainee status

Trainee status:
• Normal clerk = 0
• Training clerk = 1
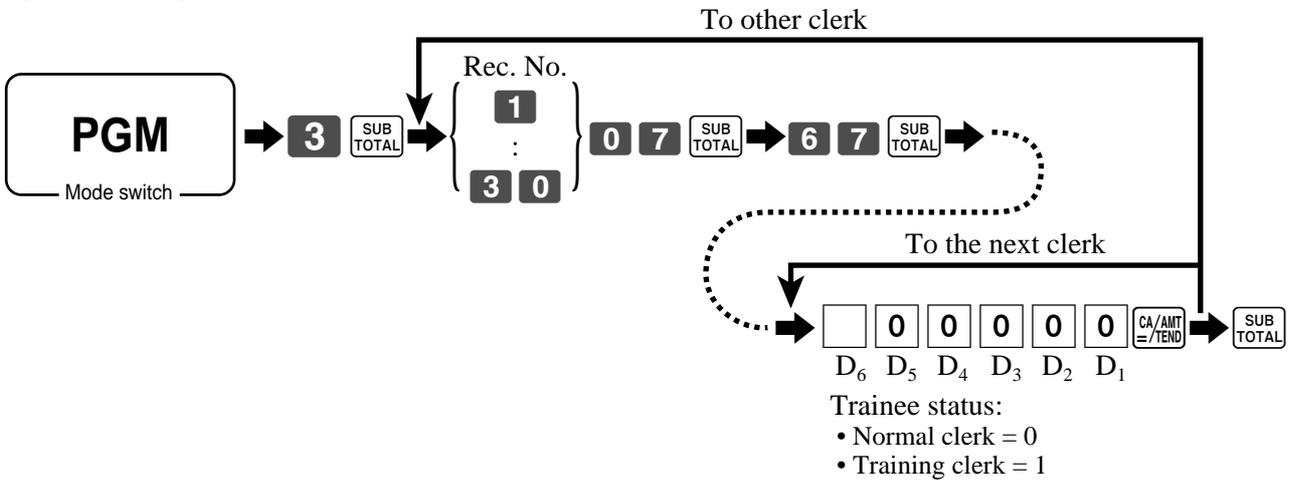
Record No.	Clerk number				Trainee status		Record No.	Clerk number				Trainee status	
	D4	D3	D2	D1	D6	00000		D4	D3	D2	D1	D6	00000
1						00000	16						00000
2						00000	17						00000
3						00000	18						00000
4						00000	19						00000
5						00000	20						00000
6						00000	21						00000
7						00000	22						00000
8						00000	23						00000
9						00000	24						00000
10						00000	25						00000
11						00000	26						00000
12						00000	27						00000
13						00000	28						00000
14						00000	29						00000
15						00000	30						00000

Advanced Operations and Setups

Programming machine features

You can program several machine features by the general control file.

Programming to general control file

PGM							
Mode switch	→ **3** SUB TOTAL	→ □□ **2 2** SUB TOTAL	→ □□ ~ □□ CA/AMT =/TEND	→ SUB TOTAL			

Address code   Program data
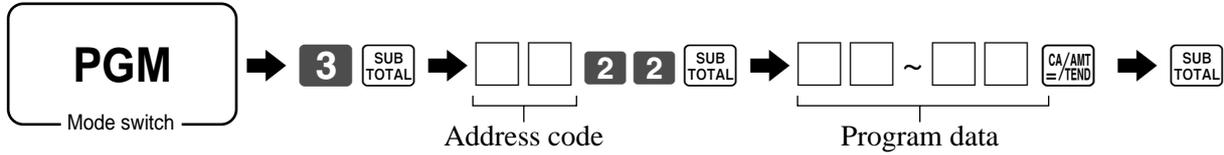
Address code 0122

Description	Choice	Program code
Date order Year/Month/Day = 0, 1 Day/Month/Year = 2, **Month/Day/Year = 3**	Significant number (0 ~ 3)	□ D_{10}
Monetary mode 0 = 0, 0.0 = 1, 0.00 = **2**, 0.000 = 3	Significant number (0 ~ 3)	□ D_9
Always "0000"		0 0 0 0 $D_8 D_7 D_6 D_5$
Always "0000"		0 0 0 0 $D_4 D_3 D_2 D_1$

Address code 0322

Description	Choice	Program code
Reset consecutive number after daily fixed total reset report is issued.	Yes = 1 No = 0	□ D_8
Always "0"		0 D_7
Consecutive number start value		□□□ $D_6 \; D_5 \; D_4$ □□□ $D_3 \; D_2 \; D_1$

Address code 0422

Description		Choice	Program code
Tax system **U.S. tax system = 1**, Canadian tax system = 2		Signigficant number (1 ~ 2)	□ D_9

Receipt on/off
  Controlled by receipt on/off key = 0
  Always on (issue) = 1, Always off (not issue) = 2
		Signigficant
		number (0 ~ 2)
			□
			D_8

Allow amount tender in RF/REG– mode operation.	a	Yes = 0 No = 2	(a+b) □ D_7
Cash drawer opening: ①Immediately when the transaction is finalized. ②After validation compulsory is released.	b	① = 0 ② = 4	
Always "00"			0 0 $D_6 D_5$
High amount limit specification for cash in drawer amount. (Sentinel function)		Maximum value (0 ~ 9)	□□ $D_4 \; D_3$
		Number or zeros (0 ~ 9)	
Always "00"			0 0 $D_2 \; D_1$

Address code 0522

Description		Choice	Program code
Print total line during finalization.	a	Yes = 0 No = 1	
Time system: ① 24 hour system, ② 12 hour system	b	① = 0 ② = 2	(a+b+c) D_{10}
Feed one line after issuing receipt.	c	No = 0 Yes = 4	
Print consecutive number by double sized letter (up to 3 digits). (Refer to Format B on page 42.)	a	No = 0 Yes = 1	(a+b) D_9
Buffered receipt print	b	No = 0 Yes = 2	
Skip item lines on journal. (journal skip)		No = 0 Yes = 1	D_8
Always "000"			0 0 0 D_7 D_6 D_5
Print number of item sold.	a	No = 0 Yes = 1	(a+b) D_4
Print tax symbols.	b	Yes = 0 No = 2	
Always "0"			0 D_3
Print multiplication or item consolidation in one line.		Yes = 0 No = 4	D_2
Print number of customers on header.	a	Yes = 0 No = 2	(a+b) D_1
Print PLU number on receipt.	b	No = 0 Yes = 4	

Address code 0622

Description		Choice	Program code
Follow the taxable status of [−] to the previous item.	a	Yes = 0 No = 1	(a+b) D_{10}
Force a money declaration before read/reset operation.	b	No = 0 Yes = 4	
Force to press [SUB TOTAL] before finalization	a	No = 0 Yes = 1	(a+b+c) D_9
Allow credit balance while finalization.	b	Yes = 0 No = 2	
Allow multiple refund/register minus operation.	c	Yes = 0 No = 4	
Affect the result of [−], %− to the item. (Net totalling)	a	No = 0 Yes = 1	(a+b) D_8
Include add-on tax in net total	b	Yes = 0 No = 2	
Treatment of department key numenric inputs: ① Treat as amount override ② Treat as quantity extensions		① = 0 ② = 4	D_7
Clear the key buffer when a receipt is issued.	a	No = 0 Yes = 1	(a+b+c) D_6
Sounds key catch tone.	b	Yes = 0 No = 2	
Allow to issue post receipt, even if the original one is issued.	c	No = 0 Yes = 4	
Display "seconds" during time display.		No = 0 Yes = 2	D_5
RF mode status		RF = 0 REG− = 1	D_4
Allow one registration of −, %− per one transaction.		No = 0 Yes = 4	D_3
Always "0"			0 D_2
Allow numeric entry while compulsory drawer opening.		Yes = 0 No = 2	D_1

Advanced Operations and Setups

Address code 0822

Description		Choice	Program code
Print gross sales total on fixed total report (GROSS)	a	Yes = 0 No = 1	$\square$ (a+b+c) D_{10}
Print net sales total on fixed total report (NET)	b	Yes = 0 No = 2	
Print cash in drawer total on fixed total report (CAID)	c	Yes = 0 No = 4	
Print charge in drawer total on fixed total report (CHID)		Yes = 5 No = 7	$\square$ D_9
Print check in drawer total on fixed total report (CKID)		Yes = 6 No = 7	$\square$ D_8
Print credit in drawer total on fixed total report (CRID(1) ~ (2))		Yes = 3 No = 7	
Print check and credit in drawer total on fixed total report.		Yes = 2 No = 7	
Always "7"			$\boxed{7}$ D_7
Print RF mode total on fixed total report (RF)		Yes = 3 No = 7	$\square$ D_6
Print the net number of customers on fixed total report (CUST)	a	Yes = 0 No = 1	$\square$ (a+b) D_5
Print the average sales per customer on fixed total report (AVRG)	b	Yes = 0 No = 2	
Print [CA/AMT =/TEND] (equal) count on fixed total report (CAL MODE)		Yes = 5 No = 7	$\square$ D_4
Always "7"			$\boxed{7}$ D_3
Always "7"			$\boxed{7}$ D_2
Print cancellation total on fixed total report (CANCEL)		Yes = 3 No = 7	$\square$ D_1

Address code 0922

Description	Choice	Program code
Print taxable amount 1 total and tax 1 total on fixed total report (TA1, TX1)	Yes = 4 No = 7	$\square$ D_{10}
Print taxable amount 2 total and tax 2 total on fixed total report (TA2, TX2)	Yes = 4 No = 7	$\square$ D_9
Print taxable amount 3 total and tax 3 total on fixed total report (TA3, TX3)	Yes = 4 No = 7	$\square$ D_8
Print taxable amount 4 total and tax 4 total on fixed total report (TA4, TX4)	Yes = 4 No = 7	$\square$ D_7
Always "7777777"		$\boxed{7}\boxed{7}\boxed{7}\boxed{7}\boxed{7}\boxed{7}$ $D_6\,D_5\,D_4\,D_3\,D_2\,D_1$

Address code 1022

Description		Choice	Program code
Print taxable amount 1 on receipt/journal.	a	Yes = 0 No = 1	$(a+b+c)$ D_{10}
Print taxable amount 2 on receipt/journal.	b	Yes = 0 No = 2	
Print taxable amount 3 on receipt/journal.	c	Yes = 0 No = 4	
Print taxable amount 4 on receipt/journal.		Yes = 6 No = 7	D_9
Always "00"			0 0 $D_8 D_7$
Open drawer when [CA/AMT =/TEND] (equal) is pressed in CAL mode. (Not effective, during registration.)	a	Yes = 1 No = 0	$(a+b)$ D_6
Open drawer when [#/NS] is pressed in CAL mode. (Not effective, during registration.)	b	Yes = 2 No = 0	
Always "0"			0 D_5
Till timer (00 ~ 59 minutes)		Significant numbers	$D_4 D_3$
Till timer (00 ~ 59 seconds)		Significant numbers	$D_2 D_1$

Address code 1422

Description		Choice	Program code
Monetary mode of foreign currency:		Significant number (0 ~ 9)	D_8
Decimal for foreign currency: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	$(a+b)$ D_7
Separator for foreign currency: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	
Always "000000"			0 0 0 0 0 0 $D_6 D_5 D_4 D_3 D_2 D_1$

Address code 1522

Description	Choice	Program code
Print PLU number on the PLU report.	No = 0 Yes = 4	D_5
Print sales ratio.	No = 0 Yes = 1	D_4
Print average sales in the monthly report.	Yes = 0 No = 1	D_3
Always "00"		0 0 $D_2 D_1$

Advanced Operations and Setups

Address code 1622

Description		Choice	Program code
Print grand total 1 on daily sales reset report.	a	Yes = 0 No = 1	
Print grand total 2 on daily sales reset report.	b	Yes = 0 No = 2	$\square$ (a+b+c) D_1
Print grand total 3 on daily sales reset report.	c	Yes = 0 No = 4	

Address code 1722

Description		Choice	Program code
Print date on receipt.	a	Yes = 0 No = 1	
Print date on journal.	b	Yes = 0 No = 2	$\square$ (a+b+c) D_4
Print consecutive number on receipt/journal.	c	Yes = 0 No = 4	
Print time on receipt.	a	Yes = 0 No = 1	
Print time on journal.	b	Yes = 0 No = 2	$\square$ (a+b+c) D_3
Merge the same department/PLU registration on buffered receipt and post receipt. (Item consolidation)	c	Yes = 0 No = 4	
Always "00"			0 0 D_2 D_1

Address code 2122

Description		Choice	Program code
Print logo message on receipt.		No = 0 Yes = 1	$\square$ D_{10}
Always "000"			0 0 0 D_9 D_8 D_7
Print commercial message on receipts in REG/RF mode.	a	No = 0 Yes = 1	$\square$ (a+b) D_6
Print bottom message on receipts in REG/RF mode.	b	No = 0 Yes = 2	
Always "00000"			0 0 0 0 0 D_5 D_4 D_3 D_2 D_1

Programming department/PLU

There are two ways to program to department/PLU, batch feature programming and individual feature programming.

Batch feature programming to department/PLU

• Department

PGM (Mode switch) → **3** [SUB TOTAL] → □ ~ □ (Program data) → *Department → [SUB TOTAL]

(To another department key)

* If you want to designate department 31 through 60, press [DEPT SHIFT] first.

• PLU

PGM (Mode switch) → **3** [SUB TOTAL] → PLU No. (1~600) [PLU] → □ ~ □ (Program data) → [CA/AMT =/TEND] → [SUB TOTAL]
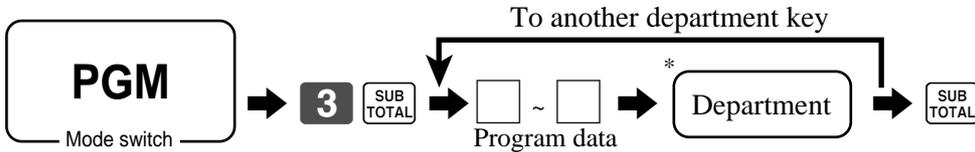
(To new (not sequential) PLU)
(Different program to the next PLU)
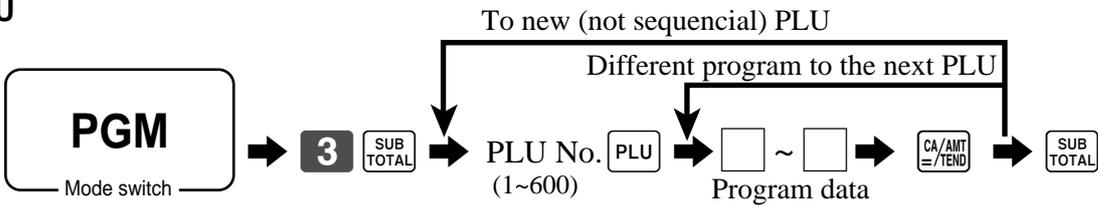
• Program data

Description		Choice	Program code
Single item control: Normal receipt = 0, Single item receipt = 3		Significant number	□ D_{12}
Always "00"			[0][0] $D_{11}D_{10}$
Enable operation in RF/REG– mode.		Yes = 0 No = 1	□ D_9
Always "0"			[0] D_8
Taxable status: See the next page.			□ D_7
Enable 0 unit price.	a	No = 0 Yes = 1	
Enable negative price.	b	No = 0 Yes = 2	□ (a+b+c) D_6
Hash	c	No = 0 Yes = 4	
Always "0"			[0] D_5
Low digit limitation (LDL) for manually entered unit price.		Significant number	□ D_4
Multiple validation: (If "No", only one validation is possible.)	a	Yes = 0 No = 1	□ (a+b) D_3
Open PLU (Only effective for PLU)	b	No = 0 Yes = 4	
Always "00"			[0][0] D_2D_1

Advanced Operations and Setups

Advanced Operations and Setups

Taxable status

for the U.S.				
Taxable 1 status	a	Yes = 1 No = 0		
Taxable 2 status	b	Yes = 2 No = 0	$\square$ (a+b+c) D_7	
Taxable 3 status	c	Yes = 4 No = 0		
for Canada				
Non tax = 0 Taxable 3 = 3 Taxable 1 & 3 = 6 Taxable 1 = 1 Taxable 4 = 4 Taxable 1 & 4 = 7 Taxable 2 = 2 Taxable 1 & 2 = 5			Significant number	$\square$ D_7

Individual feature programming to department/PLU

• Department

To another department key

Same program

PGM Mode switch ➡ 3 SUB/TOTAL ➡ $\square\square$ 6 6 SUB/TOTAL ➡ $\square$ ~ $\square$ ➡ * Department ➡ SUB/TOTAL

Address code   Program data

* If you want to designate department 31 through 60, press DEPT SHIFT first.

• PLU

To new (not sequencial) PLU

Different program to the next PLU

Same program

PGM Mode switch ➡ 3 SUB/TOTAL ➡ $\square\square$ 6 6 SUB/TOTAL ➡ PLU No. PLU (1~600) ➡ $\square$ ~ $\square$ ➡ CA/AMT =/TEND ➡ SUB/TOTAL

Address code   Program data

• Program data

Address code 1166

Description	Choice	Program code
Link group record number: (00 ~ 60)	Significant numbers	$\square\square$ $D_6 D_5$
Link depatment record number: (00 ~ 60) (for PLU)	Significant numbers	$\square\square$ $D_4 D_3$
Always "00"		0 0 $D_2 D_1$

Address code 1566

Description	Choice	Program code
High amount limit for entering unit price manually.	Significant numbers	$\square\square$ ~ $\square\square$ $D_6 D_5$ ~ $D_2 D_1$

Address code 1866

Description		Choice	Program code
Single item control: Normal receipt = 0, Single item receipt = 3		Significant number	☐

Address code 0566

Description		Choice	Program code
Enable 0 unit price.	a	No = 0 Yes = 1	☐ (a+b+c)
Enable negative price.	b	No = 0 Yes = 2	
Hash	c	No = 0 Yes = 4	

Address code 0766

Description	Choice	Program code
Low digit limitation (LDL) for manually entered unit price.	Significant number	☐

Address code 0466

Description		Choice	Program code
Multiple validation: (If "No", only one validation is possible.)	a	Yes = 0 No = 1	☐ (a+b)
Open PLU (Only effective for PLU)	b	No = 0 Yes = 4	

Address code 0366

Description		Choice	Program code
for the U.S.			
Taxable 1 status	a	Yes = 1 No = 0	☐ (a+b+c)
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for Canada			
Non tax = 0 Taxable 3 = 3 Taxable 1 & 3 = 6 Taxable 1 = 1 Taxable 4 = 4 Taxable 1 & 4 = 7 Taxable 2 = 2 Taxable 1 & 2 = 5		Significant number	☐

Address code 0266

Description	Choice	Program code
Enable operation in RF/REG– mode.	Yes = 0 No = 1	☐

Programming to transaction keys

Procedure
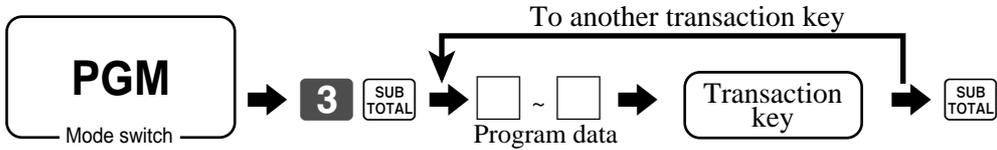
To another transaction key

$$\boxed{\text{PGM}} \xrightarrow{\text{Mode switch}} \boxed{3}\; \boxed{\substack{\text{SUB}\\\text{TOTAL}}} \rightarrow \boxed{} \sim \boxed{} \rightarrow \boxed{\substack{\text{Transaction}\\\text{key}}} \rightarrow \boxed{\substack{\text{SUB}\\\text{TOTAL}}}$$

Program data

Data

<CASH>, <CHARGE>, <CHECK>

Description		Choice	Program code
Allowable number of validation printing ("0" means no limitation) [1][2]		Significant number (0 ~ 9)	$\square$ D_{11}
Force validation operation. [1][2]		No = 0 Yes = 1	$\square$ D_{10}
Disable operation in RF/REG– mode. [2]		No = 0 Yes = 1	$\square$ D_9
Always "0"			$\boxed{0}$ D_8
Prohibit entry of a partial payment	a	No = 0 Yes = 1	$\square$ (a+b+c) D_7
Prohibit the entry of the amount tendered.	b	No = 0 Yes = 2	
Force entry of the amount tendered.	c	No = 0 Yes = 4	
Validation amount [2] ① Print subtotal amount ② Print amount tendered		Subtotal = 0 Tender = 4	$\square$ D_6
Always "0"			$\boxed{0}$ D_5
High amount limit specification for subtotal and tendering amounts.		Maximum value (0 ~ 9)	$\square\square$ $D_4\,D_3$
		Number of zeros (0 ~ 9)	
High amount limit specification for change amount due.		Maximum value (0 ~ 9)	$\square\square$ $D_2\,D_1$
		Number of zeros (0 ~ 9)	

[1] Those are valid options for SINGLE ITEM as well.
[2] Those are valid options for CURRENCY EXCHANGE (include partial tender) as well.

<CREDIT>

Description		Choice	Program code
Allowable number of validation printing ("0" means no limitation)		Significant number (0 ~ 9)	☐ D_{11}
Force validation operation.		No = 0 Yes = 1	☐ D_{10}
Disable operation in RF/REG– mode.		No = 0 Yes = 1	☐ D_9
Always "0"			**0** D_8
Prohibit entry of a partial payment	a	No = 0 Yes = 1	
Prohibit the entry of the amount tendered.	b	No = 0 Yes = 2	☐ (a+b+c) D_7
Force entry of the amount tendered.	c	No = 0 Yes = 4	
Validation amount ① Print subtotal amount ② Print amount tendered		Subtotal = 0 Tender = 4	☐ D_6
Always "0"			**0** D_5
High amount limit specification for subtotal and tendering amounts.		Maximum value (0 ~ 9)	☐☐ $D_4 D_3$
		Number of zeros (0 ~ 9)	
Always "0"			**0** D_2
Specify credit in drawer total in the fixed totalizer. ("0" means credit 1 in drawer.)		Significant number (0 ~ 2)	☐ D_1

<RECEIVED ON ACCOUNT>, <PAID OUT>

Description	Choice	Program code
Allowable number of validation printing ("0" means no limitation)	Significant number (0 ~ 9)	☐ D_{11}
Force validation operation.	No = 0 Yes = 1	☐ D_{10}
Disable operation in RF/REG– mode.	No = 0 Yes = 1	☐ D_9
Always "0000"		**0 0 0 0** $D_8 D_7 D_6 D_5$
High amount limit specification for entering amounts	Maximum value (0 ~ 9)	☐☐ $D_4 D_3$
	Number of zeros (0 ~ 9)	
Always "00"		**0 0** $D_2 D_1$

Advanced Operations and Setups

<#/NO SALE>

Description	Choice	Program code
Disable operation in RF/REG– mode.	No = 0 Yes = 1	□ D_9
Always "0"		0 D_8
Allow mode change or clerk change after non-add registration as first transaction. (only for non-add function)	Yes = 1 No = 0	□ D_7
Always "000000"		0 0 0 0 0 0 $D_6 D_5 D_4 D_3 D_2 D_1$

<%–>

Description		Choice	Program code
Multiple validation (If "No", only one validation printing is possible.)		Yes = 0 No = 4	□ D_{11}
Always "0"			0 D_{10}
Disable operation in RF/REG– mode.		No = 0 Yes = 1	□ D_9
Always "0"			0 D_8
Taxable status: See below.			□ D_7
Prohibit manual rate override.		No = 0 Yes = 2	□ D_6
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	□ D_5
Allow key operation after [SUB TOTAL].	a	Yes = 0 No = 1	□ (a+b) D_4
Allow key operation after item registration.	b	Yes = 0 No = 4	
Always "000"			0 0 0 $D_3 D_2 D_1$

Taxable status

for the U.S.			
Taxable 1 status	a	Yes = 1 No = 0	□ (a+b+c) D_7
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for Canada			
Non tax = 0 Taxable 3 = 3 Taxable 1 & 3 = 6 Taxable 1 = 1 Taxable 4 = 4 Taxable 1 & 4 = 7 Taxable 2 = 2 Taxable 1 & 2 = 5		Significant number	□ D_7

<−>

Description		Choice	Program code
Multiple validation (If "No", only one validation printing is possible.)		Yes = 0 No = 4	D_{11}
Always "0"			0 D_{10}
Disable operation in RF/REG– mode.		No = 0 Yes = 1	D_9
Always "0"			0 D_8
Taxable status: See below.			D_7
Allow credit balance.		No = 0 Yes = 1	D_6
Always "0"			0 D_5
Allow key operation after [SUB TOTAL].	a	Yes = 0 No = 1	(a+b) D_4
Allow key operation after item registration.	b	Yes = 0 No = 4	
High digit limitation (HDL) for manually entered unit price ("8, 9" means NOT allow manual entry.)		Significant number	D_3
Always "00"			0 | 0 D_2 D_1

Taxable status

for the U.S.			
Taxable 1 status	a	Yes = 1 No = 0	(a+b+c) D_7
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for Canada			
Non tax = 0 Taxable 3 = 3 Taxable 1 & 3 = 6 Taxable 1 = 1 Taxable 4 = 4 Taxable 1 & 4 = 7 Taxable 2 = 2 Taxable 1 & 2 = 5		Significant number	D_7

<CURRENCY EXCHANGE>

Description		Choice	Program code
Disable operation in RF/REG– mode.		No = 0 Yes = 1	D_9
Always "0"			0 D_8
Define amount symbol. (0, 1) ("0" means local currency symbol.)		Significant number	D_7
Always "0"			0 D_6
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	D_5
Always "0"			0 D_4
Monetary mode (0 ~ 9): 0.00 = 2, 0.0 = 1, 0 = 0		Significant number	D_3
Monetary symbol for decimal	a	Decimal = 0 Comma = 1	(a+b) D_2
Monetary symbol for separator	b	Comma = 0 Decimal = 4	
Always "0"			0 D_1

<POST RECEIPT>

Description	Choice	Program code
Maximum number of post receipts (0 ~ 9) ("0" means 1 post receipt.)	Significant number	☐ D_{12}
Always "00"		$\boxed{0}\boxed{0}$ $D_{11}\,D_{10}$
Disable operation in RF/REG– mode.	No = 0 Yes = 1	☐ D_9
Always "0000"		$\boxed{0}\boxed{0}\boxed{0}\boxed{0}$ $D_8\,D_7\,D_6\,D_5$
Always "0000"		$\boxed{0}\boxed{0}\boxed{0}\boxed{0}$ $D_4\,D_3\,D_2\,D_1$

<QUANTITY/FOR>

Description	Choice	Program code
Disable operation in RF/REG– mode.	No = 0 Yes = 1	☐ D_9
Always "000"		$\boxed{0}\boxed{0}\boxed{0}$ $D_8\,D_7\,D_6$
Rounding: Round off = 0, cut off = 1, round up = 2	Significant number	☐ D_5
Always "0000"		$\boxed{0}\boxed{0}\boxed{0}\boxed{0}$ $D_4\,D_3\,D_2\,D_1$

Allocating three zero key

After initialization, two zero key and decimal point key are assigned in the ten-key pad.
You can change one of these keys to three zero key.

Procedure

PGM
Mode switch
→ 4 [SUB TOTAL] → **Three zero: 097** **Two zero: 096** **Decimal point: 098** → [00] key or [•] key → [SUB TOTAL]
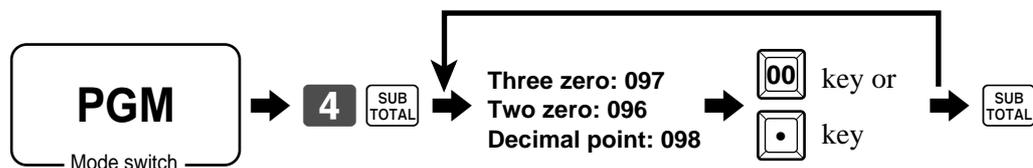
Character programming

You can set or change the characters by using the character keyboard or entering by code for messages, function keys, departments, PLUs, etc. The initial characters for the above are set when the machine is initialized, so the programming operation is necessary only when you want to change them.

Whenever you enter this character programming mode, the keyboard becomes the character keyboard shown as below.

Using character keyboard

Example:

Input " $\hat{A}$ p p l e J u i c e ",
enter "DBL""A" "SHIFT""p" "p" "l" "e" "SPACE" "SHIFT""J" "SHIFT""u" "i" "c" "e" 00 .
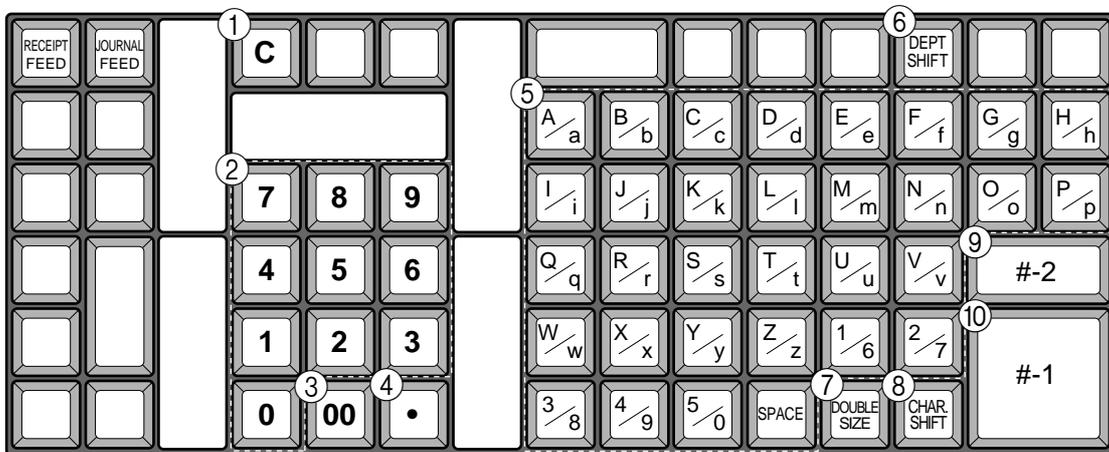
① **Clear key**
Clears all input characters in the programming.

② **Numeric keys**
Used to enter program codes, memory number and character codes.

③ **Character fixed key**
Enter when the alphabetic entry for a descriptor, name or message has been completed.

④ **Backspace/Character code fixed key**
Registers one character with code (2 or 3 digit).
Clears the last input character, much like a back space key. (Does not clear the double size letter key entry.)

⑤ **Alphabet keys**
Used input to characters.

⑥ **Department shift key**
Use this key to shift the department key number from 1 through 30 to 31 through 60.

⑦ **Double size letter key**
Specifies that the next character you input to a double size character.
You must press this key before each double size character.

⑧ **Character shift key**
Pressing this key shifts the character through the uppercase letter, lower case letter, numerics and returns to the uppercase letter in sequence.
(While selecting the lower case, the T/S2 indicator is lit.)

⑨ **Program end key**
Terminates the character programming.

⑩ **Character enter key**
Registers the programmed characters.

Advanced Operations and Setups

Advanced Operations and Setups

Entering characters by code

Every time you enter a character, choose character codes by the character code list (below) and press the ⟨·⟩ key to settle it. After you complete entering characters, press the ⟨00⟩ key to fix them.

Example:

Input " Â p p l e J u i c e ",

enter " 255 ⟨·⟩ 65 ⟨·⟩ 112 ⟨·⟩ 112 ⟨·⟩ 108 ⟨·⟩ 101 ⟨·⟩ 32 ⟨·⟩ 74 ⟨·⟩ 117 ⟨·⟩ 105 ⟨·⟩ 99 ⟨·⟩ 101 ⟨·⟩ ⟨00⟩ "

Character code list

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
Space	32	0	48	@	64	P	80	`	96	p	112	Ç	128
!	33	1	49	A	65	Q	81	a	97	q	113	ü	129
"	34	2	50	B	66	R	82	b	98	r	114	é	130
#	35	3	51	C	67	S	83	c	99	s	115	â	131
$	36	4	52	D	68	T	84	d	100	t	116	ä	132
%	37	5	53	E	69	U	85	e	101	u	117	à	133
&	38	6	54	F	70	V	86	f	102	v	118	å	134
'	39	7	55	G	71	W	87	g	103	w	119	ç	135
(	40	8	56	H	72	X	88	h	104	x	120	ê	136
)	41	9	57	I	73	Y	89	i	105	y	121	ë	137
*	42	:	58	J	74	Z	90	j	106	z	122	è	138
+	43	;	59	K	75	[	91	k	107	{	123	ï	139
,	44	<	60	L	76	\	92	l	108	|	124	î	140
-	45	=	61	M	77	]	93	m	109	}	125	ì	141
.	46	>	62	N	78	^	94	n	110	~	126	Ä	142
/	47	?	63	O	79	_	95	o	111		127	Å	143

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
É	144	á	160	░	176	└	192	ð	208	Ó	224		240
æ	145	í	161	▒	177	┴	193	Đ	209	ß	225	±	241
Æ	146	ó	162	▓	178	┬	194	Ê	210	Ô	226	‗	242
ô	147	ú	163	│	179	├	195	Ë	211	Ò	227	¾	243
ö	148	ñ	164	┤	180	─	196	È	212	õ	228	¶	244
ò	149	Ñ	165	Á	181	┼	197	€	213	Õ	229	§	245
û	150	ª	166	Â	182	ã	198	Í	214	µ	230	÷	246
ù	151	º	167	À	183	Ã	199	Î	215	þ	231	¸	247
ÿ	152	¿	168	©	184	╚	200	Ï	216	Þ	232	°	248
Ö	153	®	169	╣	185	╔	201	┘	217	Ú	233	¨	249
Ü	154	¬	170	║	186	╩	202	┌	218	Û	234	·	250
ø	155	½	171	╗	187	╦	203	█	219	Ù	235	¹	251
£	156	¼	172	╝	188	╠	204	▄	220	ý	236	³	252
Ø	157	¡	173	¢	189	═	205	¦	221	Ý	237	²	253
×	158	«	174	¥	190	╬	206	Ì	222	¯	238	▮	254
ƒ	159	»	175	┐	191	¤	207	▀	223	´	239	Double size	255

Procedures for programming descriptors and messages

The following descriptors and messages can be programmed;
- Clerk name
- Fix totalizer
- Special character
- PLU item descriptor
- Transaction key descriptor

- Messages
- Report header
- Department key descriptor
- Machine number
- Group descriptor

Programming clerk name and messages

Clerk name

Up to 12 characters can be set.

To other address code

To the next address code

PGM — Mode switch — ➡ **2** [SUB TOTAL] ➡ ☐☐☐☐ [SUB TOTAL] ➡ Characters ➡ [CA/AMT =/TEND] ➡ [SUB TOTAL]

Address code

☞ See "Entering characters" section.
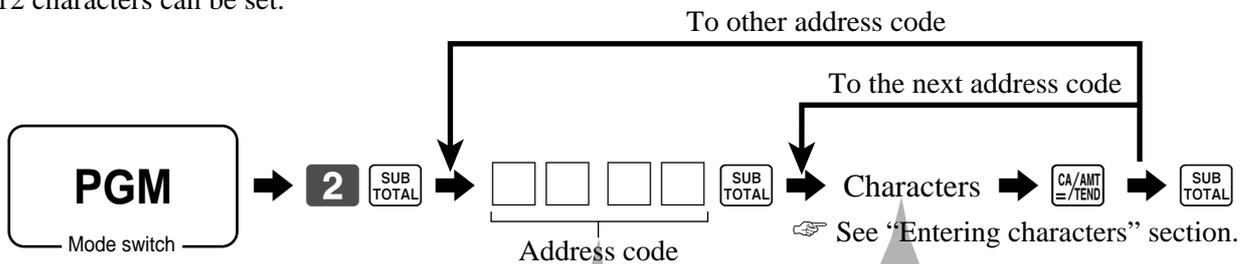
Address code	Contents	Initial character	Yours
0107	Clerk 01	C01	
0207	Clerk 02	C02	
0307	Clerk 03	C03	
0407	Clerk 04	C04	
0507	Clerk 05	C05	
0607	Clerk 06	C06	
0707	Clerk 07	C07	
0807	Clerk 08	C08	
0907	Clerk 09	C09	
1007	Clerk 10	C10	
2907	Clerk 29	C29	
3007	Clerk 30	C30	

Advanced Operations and Setups

Advanced Operations and Setups

Message

Up to 24 characters can be set.

Address code	Contents	Initial character	Yours
0132	1st line of logo message	YOUR RECEIPT	
0232	2nd line of logo message	THANK YOU	
0332	3rd line of logo message	CALL AGAIN	
0432	4th line of logo message		
0532	1st line of commercial message		
0632	2nd line of commercial message		
0732	3rd line of commercial message		
0832	4th line of commercial message		
0932	1st line of bottom message		
1032	2nd line of bottom message		
1132	3rd line of bottom message		
1232	4th line of bottom message		

Fix total

Up to 12 characters can be set.

Address code	Contents	Initial character	Address code	Contents	Initial character
Fix totalizer					
0101	Gross sales total	GROSS	5301	Foreign currency cash in drawer 1	CECA1
0201	Net sales total	NET	5401	Foreign currency check in drawer 1	CECK1
0301	Cash in drawer	CAID	5501-6501	not used	
0401-0601	Not used		6601	Cancellation	CANCEL
0701	Charge in drawer	CHID	6701	Taxable amount 1	TA1
0801-1001	Not used		6801	Tax 1	TX1
1101	Check in drawer	CKID	6901	not used	
1201-1401	Not used		7001	Taxable amount 2	TA2
1501	Credit 1 in drawer	CRID(1)	7101	Tax 2	TX2
1601	Credit 2 in drawer	CRID(2)	7201	not used	
1701-4401	Not used		7301	Taxable amount 3	TA3
4501	Refund mode total	RF	7401	Tax 3	TX3
4601	Customer count	CUST	7501	not used	
4701	Average sales per customer	AVRG	7601	Taxable amount 4	TA4
4801	Not used		7701	Tax 4	TX4
4901	Calculator mode count	CAL MODE	7801-9701	not used	
5001-5201	Not used				

Machine number

Up to 8 characters can be set.

Address code	Contents	Initial character
Machine number		
0191	Machine number	MC#01

Report header

Up to 12 characters can be set.

Address code	Contents	Initial character
Report header		
0124	Fixed totalizer report	FIX
0224	Transaction key report	TRANS
0324	PLU report	PLU
0424	Department report	DEPT
0524	Group report	GROUP
0624	Cashier/clerk report	CASHIER
0724	Not used	
0824	Hourly sales report	HOURLY
0924	Monthly sales report	MONTHLY
1024-1524	Not used	
1624	Financial report	FLASH
1724	Not used	
1824	PLU by amount	PLU AMT
1924	PLU by quantity	PLU QTY
2024	Department by amount	DEPT AMT
2124	Department by quantity	DEPT QTY
2224-2324	Not used	
2424	Individual report	INDIVIDUAL
2524	Not used	

Special character

Address code	Contents	Descriptor
0123	Main currency symbol (2), @(2), No. (2), split pricing (1), not used (2) Training filler (1)	$ @No/ **
0223	No. of item sold (2), Customer count (2)	NoCT@ LB *QT
0323	Multiplication (6)	BUSY
0423	Taxable symbol 1 (3 ea.) Tax1, Tax2, Tax3, Tax4	T1 T2 T3 T4 T5
0523	(not used)	T6 T7 T8 T9 T10
0623	Taxable symbol 3 (3 ea.) Tax1/2, Tax1/3, Tax1/4, not used, Tax2/3	T12T13T14 T23
0723	Taxable symbol 4 (3 ea.) not used, not used, not used, Nontax, All	F
0823	Foreign currency (2)	* * * *
0923	Mode symbol 1 (4 ea.) REG1/2, RF, REG–	REG RF R—
1023	Mode symbol 2 (4 ea.) PGM, Daily X, Daily Z	P ☐X Z XZ
1123	Mode symbol 3 (4 ea.) Training, not used, PGM read	TRG PGMX
1223	Decimal: amount/q'ty, Separator (1)	.,.,., X
1323	A.M., P.M. (3 ea.)	AM PM ST
1423-1623	(not used)	
1723	Subtotal symbol (16)	ST
1823	Total symbol (16)	TL
1923	Change symbol (16)	CG
2023-2823	(not used)	
2923	Report total symbol(16)	TL
3023-3423	(not used)	
3523	Declaration amount	DECLA
3623-4223	(not used)	

Advanced Operations and Setups

Advanced Operations and Setups

Group descriptor

Up to 12 characters can be set.

Address code	Contents	Initial character	Yours											
0106	Group 01	GROUP01												
0206	Group 02	GROUP02												
0306	Group 03	GROUP03												
0406	Group 04	GROUP04												
0506	Group 05	GROUP05												
0606	Group 06	GROUP06												
0706	Group 07	GROUP07												
0806	Group 08	GROUP08												
0906	Group 09	GROUP09												
1006	Group 10	GROUP10												

Programming department/transaction key descriptor

To another department/transaction key

PGM
Mode switch
→ 2 | SUB/TOTAL → Characters → Department key / Transaction key → SUB/TOTAL

☞ See "Entering characters" section.
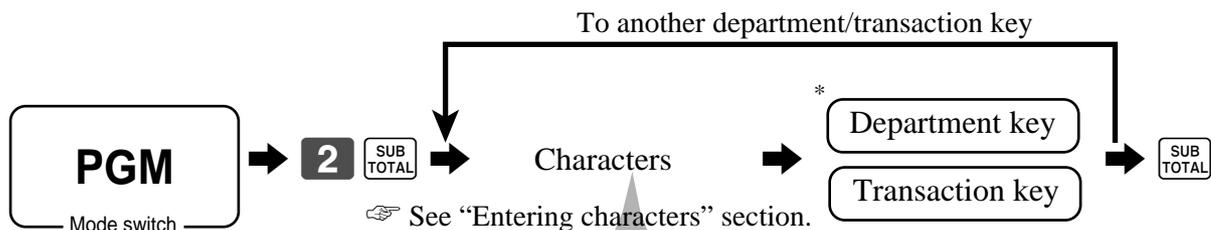
* If you want to designate department 31 through 60, press DEPT/SHIFT after completion of character entry.

Up to 16 characters can be set.

Contents	Initial character	Yours
Department 01	DEPT01	
Department 02	DEPT02	
Department 03	DEPT03	
Department 04	DEPT04	
Department 05	DEPT05	
Department 06	DEPT06	
Department 07	DEPT07	
Department 08	DEPT08	
Department 09	DEPT09	
Department 10	DEPT10	
Department 11	DEPT11	
Department 12	DEPT12	
Department 13	DEPT13	
Department 59	DEPT59	
Department 60	DEPT60	

Up to 12 characters can be set.

Contents	Initial character	Yours
Cash/Amount tendered	CASH	
Charge	CHARGE	
Credit 1	CREDIT1	
Credit 2	CREDIT2	
Check	CHECK	
Received on account	RC	
Paid out	PD	
Minus	–	
Discount	%–	
Refund	RF	
Correction	CORR	
Validation	VLD	
Receipt	RCT	
Non add/No sale	#/NS	
Currency exchange	CE	
PLU	PLU#	
Price	PRC	
Tax shift 1	T/S1	
Tax shift 2	T/S2	
Clerk number	CLK#	
Subtotal	SUBTOTAL	
Receipt on/off	RCT ON/OFF	
Multiplication/For/Date time	QT	

Advanced Operations and Setups

Advanced Operations and Setups

Programming PLU descriptor

To new (not sequential) PLU

To the next PLU

PGM Mode switch → 2 [SUB TOTAL] → 00 PLU No. [PLU] → Characters [CA/AMT =/TEND] → [SUB TOTAL]

☞ See "Entering characters" section.

PLU No.	Contents	Initial character	Yours
001	PLU 001	PLU0001	
002	PLU 002	PLU0002	
003	PLU 003	PLU0003	
004	PLU 004	PLU0004	
005	PLU 005	PLU0005	
006	PLU 006	PLU0006	
007	PLU 007	PLU0007	
008	PLU 008	PLU0008	
009	PLU 009	PLU0009	
010	PLU 010	PLU0010	
011	PLU 011	PLU0011	
012	PLU 012	PLU0012	
013	PLU 013	PLU0013	
014	PLU 014	PLU0014	
015	PLU 015	PLU0015	
016	PLU 016	PLU0016	
017	PLU 017	PLU0017	
018	PLU 018	PLU0018	
019	PLU 019	PLU0019	
020	PLU 020	PLU0020	
021	PLU 021	PLU0021	
022	PLU 022	PLU0022	
023	PLU 023	PLU0023	
024	PLU 024	PLU0024	
025	PLU 025	PLU0025	
026	PLU 026	PLU0026	
027	PLU 027	PLU0027	
028	PLU 028	PLU0028	
029	PLU 029	PLU0029	
598	PLU 598	PLU0598	
599	PLU 599	PLU0599	
600	PLU 600	PLU0600	

Up to 16 characters can be set.

Printing read/reset reports

• Daily sales read report ("X" mode)

You can print read reports at any time during the business day without affecting the data stored in the cash register's memory.

• Daily sales reset report ("Z" mode)

You should print reset reports at the end of the business day.

Important!

- The reset operation issues a report and also clears all sales data from the cash register's memory.
- Be sure to perform the reset operations at the end of each business day. Otherwise, you will not be able to distinguish between the sales data for different dates.

To print the individual department, PLU read report

This report shows sales for specific departments or PLUs.

OPERATION	REPORT

X
Mode switch

• Specifying a department

$\boxed{^{31}_{+\ 1}}$, $\boxed{^{32}_{-\ 2}}$ ~ $\boxed{^{DEPT}_{SHIFT}}$ $\boxed{^{31}_{+\ 1}}$ ~ $\boxed{^{DEPT}_{SHIFT}}$ $\boxed{^{60}_{30}}$

• Specifying a PLU

$\boxed{1}$ $\boxed{PLU}$ ~ $\boxed{6}$ $\boxed{0}$ $\boxed{0}$ $\boxed{PLU}$

$\boxed{^{SUB}_{TOTAL}}$

```
X    03-04-2001 17:00    — Mode/date/time
C01      MC#01    000521  — Clerk/Mc No./consecutive No.

X    INDIVIDUAL            — Read symbol/report title

DEPT01          38         — Department Name/No. of items
   8.13%     $257.53      — Sales ratio*/amount
PLU0001         17         — PLU Name/No. of items
   0.53%      $17.00      — Sales ratio*/PLU amount
 #0001                     — PLU code*

-----------------------------
TL             88.61       — Total No. of items
            $516.10        — Total amount
```

After you finish to select items, press $\boxed{^{SUB}_{TOTAL}}$ to terminate.

* These items can be skipped by programming.

Advanced Operations and Setups

Advanced Operations and Setups

To print the financial read report

This report shows gross sales, net sales, cash in drawer and check in drawer.

OPERATION	REPORT

X Mode switch

Money declaration [1]
(Cash in drawer amount [#/NS])

X/FOR DATE TIME

```
X    FLASH
                0000071

DECLA      $6,919.04
               $0.00

GROSS         111.15
           $7,054.14
NET      No   120
           $7,263.20
CAID       $6,919.04
CHID        $178.60
CKID        $859.85
CRID(1)     $709.85
```

- Read symbol/report title
- Command code
- Declared cash in drawer [1]
- Difference (= declared - accumulated) [1]
- Gross No. of items
- Gross amount
- Net No. of customers
- Net amount
- Cash in drawer
- Charge in drawer
- Check in drawer
- Credit in drawer

To print the individual clerk read/reset report

This report shows individual clerk totals.

OPERATION	REPORT

X/Z (read/reset) Mode switch

Money declaration [1]
(Cash in drawer amount [#/NS])

2 0 0 1 7 [CA/AMT =/TEND]

☐ ☐ ☐ ☐ [CA/AMT =/TEND]
Enter the appricable clerk number.

[SUB TOTAL]

After you finish to select clerks, press [SUB TOTAL] to terminate.

```
Z    CASHIER      0001
                0020017

DECLA      $6,919.04
               $0.00

C01        ..........1
NET      No   111
           $1,845.35

C02        ..........1
```

- Read symbol/report title/reset counter
- Command code
- Declared cash in drawer [1]
- Difference (= declared - accumulated) [1]
- Clerk name/drawer No.
- Net total
- Clerk name/drawer No.

[1] Money declaration:
Count how much cash is in the drawer and input this amount (up to 10 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 57), you cannot skip this procedure.

To print the daily sales read/reset report

This report shows sales except for PLUs.

OPERATION	REPORT

X/Z
(read/reset)
— Mode switch —

↓

Money declaration [*1]
(Cash in drawer amount $\boxed{\text{#/NS}}$)

↓

$\boxed{\begin{array}{c}\text{CA/AMT}\\ \text{= /TEND}\end{array}}$

```
-------------------------------
Z     BATCH01
-------------------------------
Z     FIX          0001
                0001011

DECLA        $6,919.04
                 $0.00

GROSS          981.25
             $6,574.40
NET       No   111
             $7,057.14
CAID         $6,919.04
CHID           $139.04
CKID           $859.85
CRID(1)        $709.85
-------------------------------
RF        No     3
                $10.22
CUST      CT   111
AVRG           $63.57
CAL MODE  No     3
CANCEL    No     2
                $12.97
-------------------------------
TA1          $2,369.69
TX1            $128.86
TA2          $2,172.96
TX2            $217.33
-------------------------------
GT1  $00000000125478.96
GT2  $00000000346284.23
GT3  $00000000123212.75
-------------------------------
Z     TRANS        0001
                0001012

CASH      No   362
             $1,638.04
```

- Report title
- Fixed total report title/reset counter [*4]
- Report code
- Declared cash in drawer [*1]
- Difference (= declared - accumulated) [*1]
- Gross total [*3]
- Net total [*3]
- Cash in drawer [*3]
- Charge in drawer [*3]
- Check in drawer [*3]
- Credit in drawer [*3]
- Refund mode [*3]
- Customer number [*3]
- Average sales per customer [*3]
- Calculator mode count [*3]
- Cancellation [*3]
- Taxable 1 amount [*3]
- Tax 1 amount [*3]
- Taxable 2 amount [*3]
- Tax 2 amount [*3]
- Grand total 1 [*3]
- Grand total 2 [*3]
- Grand total 3 [*3]
- Function key report title/reset counter [*4]
- Report code
- Function key count/amount [*2]

```
CH        No    56
             $1,174.85
CORR      No    14
                $39.55
vLD       N     19
RCT       No     3
#/NS      No     5
-------------------------------
Z     DEPT         0001
                0001015

DEPT01          38
     8.13%      $257.53
DEPT02         183
             $1,362.26
-------------------------------
TL             88.61
             $1,916.10
-------------------------------
Z     CASHIER      0001
                0001017

C01        ...........1
NET       No   111
             $1,845.35

C02        ...........1
```

- Department report title/reset counter [*4]
- Report code
- Department name/No. of items [*2]
- Sales ratio [*3]/amount [*2]
- Total No. of items
- Total amount
- Clerk report title/reset counter [*4]
- Report code
- Clerk name/drawer No.
- Net total
- Clerk name/drawer No.

[*1] Money declaration:
Count how much cash is in the drawer and input this amount (up to 10 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 57), you cannot skip this procedure.

[*2] Zero totalled departments/functions are not printed.

[*3] These items can be skipped by programming.

[*4] The "✳" symbol is printed on the reset report, memory overflow occurred in the counter/totalizer.

Advanced Operations and Setups

Advanced Operations and Setups

To print the PLU read/reset report

This report shows sales for PLUs.

OPERATION   **REPORT**

X/Z
(read/reset)
Mode switch

→

`0` `1` `4` $\boxed{\text{CA/AMT} = \text{/TEND}}$

X	PLU	— Read symbol/report title
	0000014	— Report code
PLU0001	17	— PLU name/No. of items
0.53%	$17.00	— Sales ratio*/PLU amount
#0001		— PLU code*
PLU0100	42	
4.07%	$69.00	
#0100		
TL	188.61	— Total No. of items
	$516.10	— Total amount

* These items can be skipped by programming.

To print the hourly sales read/reset report

This report shows hourly breakdowns of sales.

OPERATION   **REPORT**

X/Z
(read/reset)
Mode switch

→

`0` `1` `9` $\boxed{\text{CA/AMT} = \text{/TEND}}$

X	HOURLY		— Read symbol/report title
		0000019	— Report code
00:00–>01:00			— Time range
	CT	1	— No. of customers
GROSS		$1.10	— Gross sales amount
NET	No	1	— No. of receipt
1.00%		$1.20	— Sales ratio*/net sales amount
23:00–>00:00			
	CT	1	
GROSS		$3.45	
NET	No	1	
3.90%		$3.59	
TL	CT	280	— Total No. of customers
GROSS		$1,937.61	— Gross total amount
NET	No	25	— Total No. of receipt
		$2,096.80	— Net total amount

* This item can be skipped by programming.

To print the monthly sales read/reset report

This report shows monthly breakdowns of sales.

OPERATION	REPORT

X/Z
(read/reset)
Mode switch

0 **2** **0** **CA/AMT =/TEND**

```
X     MONTHLY
              0000020

  1......
GROSS         1236.76
           $12,202.57
NET      No    214
           $12,202.57
 31......
GROSS          2132
           $14,187.57
NET      No    205
           $13,398.76
--------------------------
TL
GROSS         9746.63
          $161,022.49
              $16.52
NET      No   2351
          $161,022.49
              $68.49
```

— Read symbol/report title
— Report code
— Date of a month
— Gross symbol/No. of items
— Gross sales amount
— Net symbol/No. of customers
— Net sales amount
— Total symbol
— Gross symbol/No. of items
— Gross sales amount
— Average daily gross sales *
— Net symbol/No. of customers
— Net sales amount
— Average daily net sales *

* These lines can be skipped by programming.

To print the group read/reset report

This report shows PLU/department group totals.

OPERATION	REPORT

X/Z
(read/reset)
Mode switch

0 **1** **6** **CA/AMT =/TEND**

```
X     GROUP
              0000016

GROUP01       203.25
  33.87%    ·1,108.54
GROUP02       183
  40.58%    ·1,327.80
GROUP03        12
   0 40%      ·13.25
GROUP10        17
   0.54%      ·17.80
--------------------------
TL            862
            ·3,272.00
```

— Read symbol/report title
— Report code
— Group No./No. of items
— Sales ratio */group amount
— Group total No. of items
— Group total amount

* This item can be skipped by programming.

Advanced Operations and Setups

Reading the cash register's program

To print unit price/rate program (except PLU)

OPERATION	REPORT

PGM
— Mode switch —

⬇

1 SUB TOTAL

⬇

SUB TOTAL

```
P01.....................  — Program read symbol

CASH            @0.00  — Transaction key unit price or rate
CHECK           @0.00
CE             0.9504
                @1.00
%-               10%

DEPT01        0001-05  — Department descriptor/rec-#/file-#
          0     @1.00  — Not used/unit price
DEPT02        0002-05
          0     @2.00
```
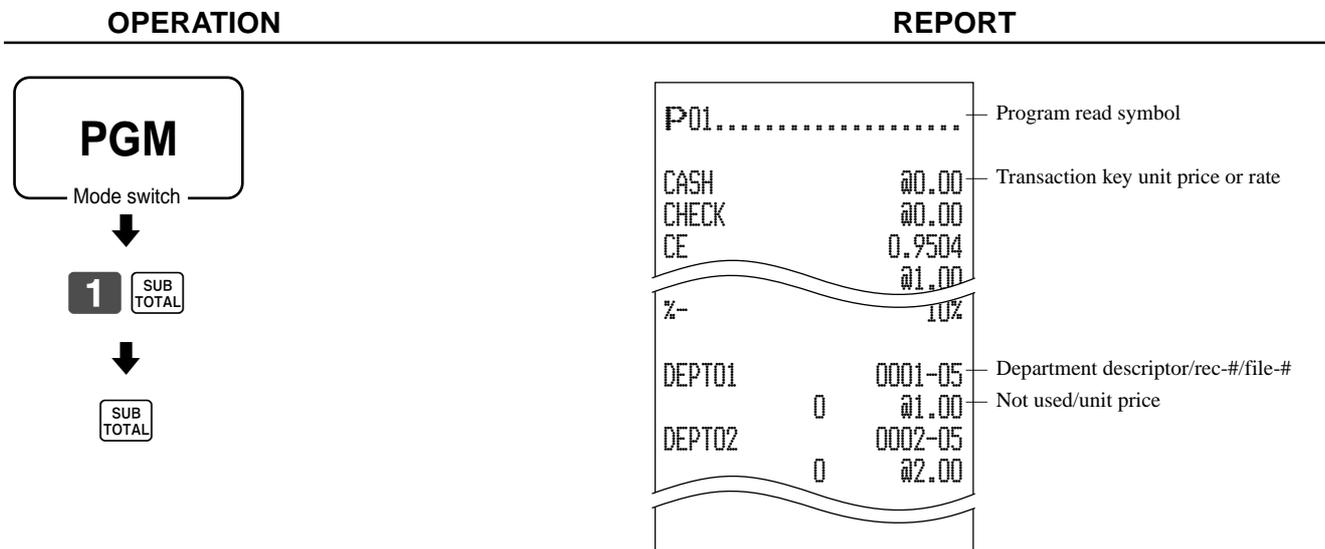
To print key descriptor, name, message program (except PLU)

OPERATION

REPORT

PGM — Mode switch

2 SUB TOTAL

SUB TOTAL
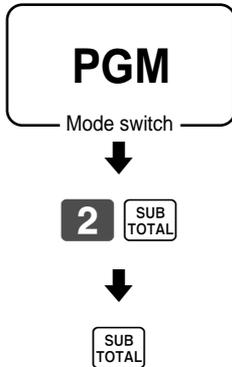
```
P02...................    — Program read symbol

GROSS           0001-01
NET             0002-01
CAID            0003-01    — Fix total character
CATI            0004-01
                0005-01

CASH            0001-02
CHARGE          0002-02    — Transaction key character
CREDIT2         0003-02
                0004-02

DEPT01          0001-05
DEPT02          0002-05    — Department character
DEPT03          0003-05
                0004-05

GROUP01         0001-06
GROUP02         0002-06    — Group character
GROUP03         0003-06
                0004-06

C01             0001-07
C02             0002-07    — Clerk character
C03             0003-07
                0004-07

GT1             0001-20
GT2             0002-20    — Grand total character
GT3             0003-20

 $ @No/  **     0001-23
NoCT@ LB *QT    0002-23    — Special character
       BUSY     0003-23

FIX             0001-24
TRANS           0002-24    — Report header character
PLU             0003-24
                0004-24

0001-32
YOUR RECEIPT               — Receipt message
0002-32
THANK YOU

MC#01           0001-91    — Machine number
```

Advanced Operations and Setups

Advanced Operations and Setups

To print the general control program, compulsory and key program

OPERATION	REPORT

PGM

Mode switch

↓

[3] [SUB TOTAL]

↓

[SUB TOTAL]
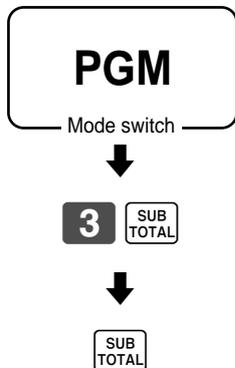
```
P03......................      — Program read symbol

CASH            0001-02
    0000000000000000          — Transaction key program
CHECK           0002-02        — Key character/rec-#/file-#
    0000000000000000          — Key program
CREDIT2         0003-02
    00000002000002

                               — Department program
DEPT01          0001-05        — Key character/rec-#/file-#
    00000001000001            — Key program
    11-66       000000         — Batch program 1166
    15-66        @1.23         — Batch program 1566
DEPT02          0002-05

                               — Clerk program
C01             0001-07        — Clerk name/rec-#/file-#
    000001000001              — Clerk #
    67      0000000000         — Trainee status
    68        00000000         — Not used
    70      0000000000         — Not used
C02             0002-07

0001-22     3200000000         — General control program
0002-22     0000000000
0003-22     0000000000

0001-25                        — Tax table
TX1            10.25%
TX1             5002
TX1             0000
```

To print the PLU program

OPERATION	REPORT

```
PGM
```
Mode switch

↓

6 [SUB TOTAL]

↓

1 **0** **4** [SUB TOTAL] (PLU unit price read)

3 **0** **4** [SUB TOTAL] (PLU program read)

↓

▢▢▢▢▢▢ PLU start No.

→↓ If skipped, starts from PLU1.

[CA/AMT = /TEND]

↓

▢▢▢▢▢▢ PLU end No.

→↓ If skipped, ends the last PLU.

[CA/AMT = /TEND]

↓

[CA/AMT = /TEND]

REPORT
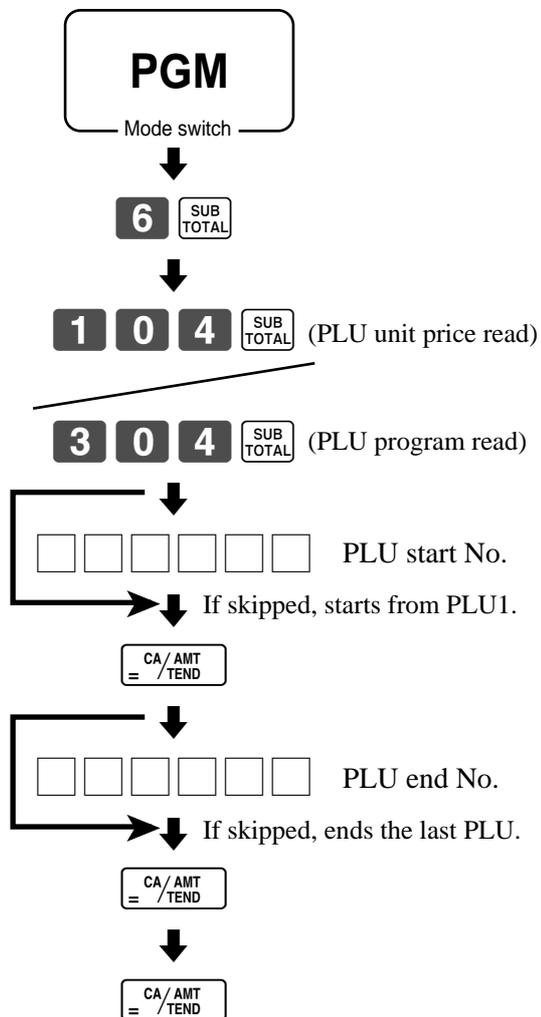
```
P01....................  ── Program read symbol

   #0001 - #0003        ── Read range
PLU0001         0001-04  ── Item character/rec-#/file-#
        0      @1.00     ── Not used/unit price
PLU0002         0002-04
        0      @2.00
```

```
P03....................  ── Program read symbol

   #0001 - #0003        ── Read range
PLU0001         0001-04  ── Item character/rec-#/file-#
       0000000000000000  ── Batch program 02 ~ 05, 07, 1866
 11-66          000000   ── Batch program 1166
 12-66         #000000   ── Not used
 13-66     <-  0000-00   ── Not used
 15-66         @1234.56  ── Batch program 1566
PLU0002         0002-04
       0000000000000000
 11-66          000000
```

Advanced Operations and Setups

Troubleshooting

This section describes what to do when you have problems with operation.

When an error occurs

Errors are indicated by an error codes. When this happens, you can usually find out what the problem is as shown below.

Error code	Meaning	Action
E001	Mode switch position changed before finalization.	Return the mode switch to its original setting and finalize the operation.
E003	Clerk is signed on before finalization of a registration being performed under another clerk .	Sign on the original clerk and finalize the transaction before assigning another clerk.
E004	Initialization or unit lock clear operation in progress.	Complete operation.
E008	Registration without entering a clerk number.	Enter a clerk number.
E010	Registration is made while the cash drawer is opened. The drawer is left open longer than the program time (drawer open alarm).	Close the drawer.
E011	Attempt to register while the cash drawer is open.	Shut the cash drawer.
E015	Printer error	Turn the power off, and remove the jammed paper from the printer.
E016	Two consecutive transactions attempted in the refund mode.	Switch to another mode and then back to the RF mode for the next transaction.
E029	Item registration is prohibited, while partial tender.	Finalize the transaction.
E031	Finalization of a transaction attempted without confirming the subtotal.	Press $\boxed{\substack{\text{SUB}\\\text{TOTAL}}}$.
E033	Finalize operation attempted without entering amount tender.	Enter the amount tendered.
E035	Change amount exceeds preset limit.	Input amount tendered again.
E036	Contents of the drawer exceed programmed limit.	Perform pick up operation.
E037	High amount lock out/low digit lock out error	Enter correct amount.
E038	Read/reset operation without declaring cash in drawer. This error appears only when this function is activated.	Perform money declaration.
E041	Validation is not performed.	Perform validation operation.
E046	Registration buffer full.	Finalize the transaction.
E075	Attempt to finalize a transaction when balance is less than or equal to zero.	Register item(s) until the balance becomes positive amount.
E139	Attempt to register $\boxed{-}$ when the balance becomes negative.	Enter proper minus amount.

Troubleshooting

When the register does not operate at all

Perform the following check whenever the cash register enter an error condition as soon as you switch it on. The results of this check are required by service personnel, so be sure to perform this check before you contact a CASIO representative for servicing.

```
                    ┌──────────┐
                    │  Start   │
                    └──────────┘
                         │
        ┌────────────────────────┐  No   ┌──────────────────────────┐
        │ Is register plugged in? ├──────▶│  Plug in the power cord.  │
        └────────────────────────┘       └──────────────────────────┘
                     │ Yes

        ┌────────────────┐  No   ┌─────────────────────────────────────────────────┐
        │  Is power on?  ├──────▶│ Set the mode switch to any position other than OFF.│
        └────────────────┘       └─────────────────────────────────────────────────┘
                     │ Yes

  ┌──────────────────────────────────┐ No ┌──────────────────────────────┐ No ┌──────────────────┐
  │ Do figures appear on the display? ├───▶│ Is the electrical outlet active? ├──▶│ Use other outlet.│
  └──────────────────────────────────┘    └──────────────────────────────┘     └──────────────────┘
                     │ Yes                          │ Yes
                                              (  Contact CASIO service  )
                                              (     representative.      )

        ┌────────────────────┐ No ┌──────────────────────────────┐ No ┌─────────────────────────┐
        │  Do keys function? ├───▶│ Is the mode switch position correct? ├──▶│ Set to correct position.│
        └────────────────────┘    └──────────────────────────────┘      └─────────────────────────┘
                     │ Yes                      │ Yes
                                          (  Contact CASIO service  )
                                          (     representative.      )

        ┌────────────────────┐ No ┌──────────────────────────────┐ No ┌────────────────┐
        │  Does paper feed?  ├───▶│   Is paper loaded correctly?   ├──▶│  Load paper.   │
        └────────────────────┘    └──────────────────────────────┘    └────────────────┘
                     │ Yes                      │ Yes
                                          (  Contact CASIO service  )
                                          (     representative.      )

        ┌────────────────────────┐ No  (  Contact CASIO service  )
        │ Printing becomes light? ├────▶(     representative.      )
        └────────────────────────┘
                     │ Yes
        ┌──────────────────────────┐
        │  Install new ink ribbon.  │
        └──────────────────────────┘
```

Clearing a machine lock up

If you make a mistake in operation, the cash register may lock up to avoid damage to programs and preset data. Should it happens, you can use the following procedure to clear the lock up without losing any data.

1 Power off the register.
2 Insert the PGM key in the mode switch.
3 Press down [RECEIPT FEED], and turn the mode switch to PGM mode.
4 The display shows ten *F* s, then release [RECEIPT FEED].
5 Press [SUB TOTAL]. The display shows ten *F* s and issue a receipt.

Important!

If the register does not show ten *F* s, never press [SUB TOTAL] and call service representative.

In case of power failure

If the power supply to the cash register is cut by a power failure or any other reason, simply wait for power to be restored. The details of any on-going transaction as well as all sales data in memory are protected by the memory backup batteries.

• Power failure during a registration
  The subtotal for items registered up to the power failure is retained in memory. You will be able to continue with the registration when power is restored.
• Power failure during printing a read/reset report
  The data already printed before the power failure is retained in memory. After power recovery, the register continues to issue report.
• Power failure during printing of a receipt and the journal
  Printing will resume after power is restored. A line that was being printed when the power failure occurred is printed in full.
• Other
  The power failure symbol is printed and any item that was being printed when the power failure occurred is reprinted in full.

The memory protection battery is constantly charging and discharging as you switch the cash register on and off during normal operations. This causes the capacity of the battery to decrease after approximately five years of use.

Important !

• Remember …a weak battery has the potential of losing valuable transaction data.
• A label on the back of the cash register shows the normal service period of the battery installed in your cash register.
• Have the battery replaced by your dealer within the period noted on this label.

User Maintenance and Options

To replace the ink ribbon

① Open the printer cover.
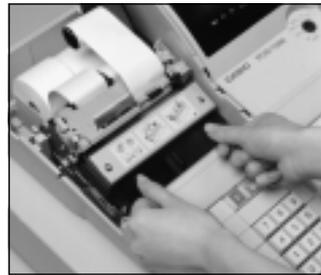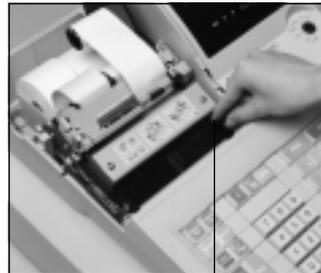
② Remove the printer sub cover.

③ Pull up the knob of the ribbon cassette.

④ Load a new ink ribbon cassette into the unit.

⑤ Turn the knob on the right side of the cassette to take up any slack in the ribbon.

Knob

⑥ Replace the printer cover and printer sub cover.

Important!

Use only the ERC-32(P) ribbon (purple). Other types of ink ribbons can damage the printer.

Never try to extend the life of an ink ribbon by replenishing the ink.

Once an ink ribbon is in place, press #/NS to test for correct operation.

To replace journal paper
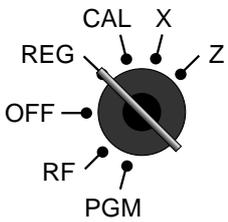
1 Set the mode switch to the REG position and remove the printer cover.

2 Press ⌊JOURNAL FEED⌋ to feed about 20 cm of paper.

3 Cut the journal paper at the point where nothing is printed.

4 Remove the journal take-up reel from its holder.
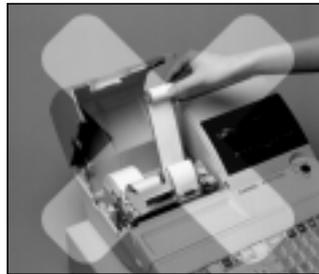
5 Slide the printed journal from the take-up reel.

6 Cut the journal paper as shown in the photograph.

7 Press ⌊JOURNAL FEED⌋ to feed the remaining paper from the printer.

8 Do not pull the paper out of the printer by hand. It can damage the printer.

9 Remove the old paper roll from the cash register.

10 Load new paper as described on page 9 of this manual.

To replace receipt paper

Follow step ① under "To replace journal paper" on the previous page.
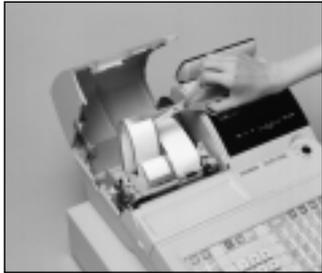
② Cut the receipt paper as shown in the photograph.
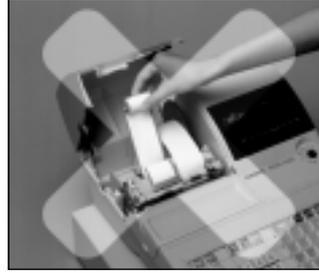
③ Press [RECEIPT FEED] to feed the remaining paper from the printer.

④ Do not pull the paper out of the printer by hand. It can damage the printer.

⑤ Remove the old paper roll from the cash register.

⑥ Load new paper as described on page 10 of this manual.

Options

Wetproof cover: WT-77

Consult with your CASIO dealer for details.

User Maintenance and Options

Specifications

Input method
   Entry: 10-key system, buffer memory 8 keys (2-key roll over)
   Department: Full key system

Display

           Amount 10 digits (zero suppression); department No., PLU No., No. of repeats, total, change, receipt on/off, transaction indicator, arithmetic operation indicators

Printer
   Receipt: Dot matrix alpha-numeric system 24 digits, receipt on/off key
           Store name or slogan is printed automatically
   Journal: Dot matrix alpha-numeric system 24 digits
           Automatic take up roll winding
   Validation: 55 digits, one line, for 135 mm (minimum) wide slip
   Paper roll: 45 (W) × 83 (D) mm
   Paper feed: Separate for receipt and journal
   Print speed: 3.0 l/s

Listing capacity
   Amount: 9999999
   Quantity: 9999.999
   Tendered amount 9999999999
   Percent: 99.99
   Tax rate: 9999.9999
   Numbers: 9999999999999999

Chronological data
   Date print: Automatic date printout on receipt or journal, automatic calendar
   Time print: Automatic time printout on receipt or journal, 24-hour system

Alarm

           Key catch tone, error alarm, sentinel alarm

Memory protection battery

           48-hour full charge protects memories for approximately 90 days.
           Battery should be replaced every five years.

Power supply/power consumption
           See the rating plate.

Operation temperature
           0˚C ~ 40˚C (32˚F ~ 104˚F)

Humiditiy

           10 ~ 90%

Demensions and weight
           454mm (D) × 400mm (W) × 331mm (H) / 13kg
           $17_{7/8}$" (D) × $15_{3/4}$" (W) × 13" (H) / 28lbs. 11oz.
           …with medium size drawer

		Contents			
Category	No. of totalizers	Amount (10 digits)	No. of items (6 integer/ 3 decimal)	Count (4 digits)	No. of customers (6 digits)
Department	Up to 60	✔	✔		
PLU	Up to 600	✔	✔		
Group	10	✔	✔		
Clerk	30	✔		✔	
Hourly sales	24	✔		✔	✔
Monthly sales	31	✔	✔		✔
Transaction	14	✔		✔	
Non ressettable grand total	3	✔ (16 digits)			
Reset counter	18			✔	
Consecutive No.	1			✔ (6 digits)	

* Specifications and design are subject to change without notice.

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Model:. .... Serial Number: .... Date of Purchase: ....

Your Name:. ....

Address: ....

Dealer's Name: ....

Address: ....

CASIO