

# 1. IDENTIFYING THE ER-3220 GST MODEL AND NON-GST MODEL

## 1-1. IDENTIFYING THE ROM BASED ON THE KEY OPERATION

### A) PGM2 mode

- Key entry

959 → **@/FOR** → **CA/AT**

- Printout

	Non-GST model	3 tax GST model	4 tax GST model
Stand alone	32 1 1A	32 G 1A	32 G 2A
Option ER-32RM	32 R 1A	32GR 1A	32GR 2A

### B) SRV mode (test function)

- Key entry

11 → **SBTL**

- Printout

	Non-GST model	3 tax GST model	4 tax GST model
Stand alone	11 32 1 1A	11 32 G 1A	11 32 G 2A

- Key entry

12 → **SBTL**

- Printout

	Non-GST model	3 tax GST model	4 tax GST model
Option ER-32RM	12 32 R 1A	12 32GR 1A	12 32GR 2A

## 1-2. IDENTIFYING THE ROM BASED ON THE ID NUMBER ON THE ROM

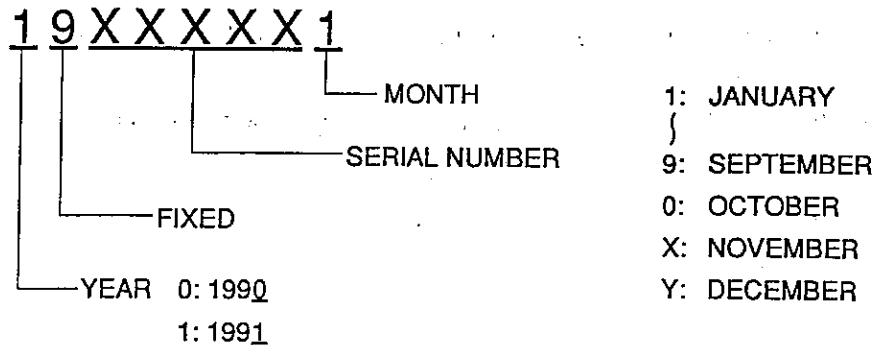
	Non-GST model	3 tax GST model	4 tax GST model
Stand alone	RBK1A ~ RBK1F	RBW1A	RC1A
Option ER-32RM	RBM1A	RCD1A	RCJ1A

NOTE: The printout version number is different from the ID number on the ROM and these numbers may differ when an upgraded version ROM is used.

## 1-3. IDENTIFYING THE ROM BASED ON THE SERIAL NUMBER ON THE RATING PLATE

	3 tax GST model	4 tax GST model
For the production	From December, 1990 to January, 1991	From February, 1991
Range of applicable serial number	0900001Y ~ 19XXXXX1	19000012 ~

NOTE 1: How to read the serial number



NOTE 2: For those machines produced before December, 1990, ROM version number should be checked to see if the machine is upgraded to 3 TAX GST model or 4 TAX model

## 2. GST MODIFICATION PROCEDURE

### 1. BEFORE PROCEEDING WITH INSTALLATION

Check that your GST Kit includes the following:

- 1 EPROM
- 2 "G" labels
- 1 Operational Manual (4 TAX)
- 1 "TAX 4 SHIFT" label
- 1 "TAX 3 SHIFT" label

#### WARNING!

All programming and Sales information will be lost due to this modification. Remember to print the SRV/ PGM programming information as well as the General Report and any other relevant reports prior to beginning this procedure.

### 2. ROM REPLACEMENT PROCEDURE

- 1 - Turn the AC Switch OFF and unplug the machine
- 2 - Remove the top cabinet and then remove the keyboard unit
- 3 - Remove the option ER-20RS PWB if installed
- 4 - Remove ROM 1 (IC11) from the socket on the main PWB
- 5 - Insert the GST ROM into the ROM 1 socket with the notches aligned
- 6 - Re-install the option PWB that was removed in step 3
- 7 - Ensure the keyboard connector(s) has been fastened correctly and then replace the keyboard and top cabinet
- 8 - Perform a Master Reset:
  - Turn the AC Switch OFF.
  - Turn the Mode Switch to SRV' (6 o'clock) position.
  - Turn the AC Switch ON.
  - Press and hold the JOURNAL FEED key and turn the Mode Switch to the SRV (7 o'clock) position.

### 3. CONFIRMATION

Turn the key to the SRV position, enter 11 then press SBTL

The printout should be:

11            32 G 2A

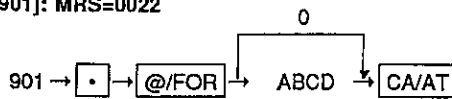
NOTE: The ROM version 2A printed may differ when an upgraded version is used.

Reprogram the ECR using the information that was saved before the modification was done.

### 3. SRV MODE PROGRAMMING

(★ mark is MRS setting)

[JOB#901]: MRS=0022



901-A,B = Not used (Fixed at "00")

901-C = Selection of tax mode by country

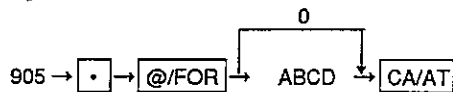
Tax setting by country	901-C
U.S.A.	0
CANADA	2
SINGAPORE	4

\* To be fixed at CANADIAN tax.

901-D = TAB setting

TAB setting	901-D
0	0
0.0	1
0.00	2
0.000	3

[JOB#905] : MRS=0005



905-A = 1. Taxable 4 subtotal on X/Z report: Print or Skip.

2. Gross Tax 4 and refund Tax 4 total on X/Z report: Print or Skip

3. Net Tax 4 total on X/Z report: Print or Skip

Taxable 4 subtotal on X/Z report	Gross tax 4 & refund tax 4 total on X/Z report	Net tax 4 total on X/Z report	905-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
Skip	Print	Skip	3
		Print	4
	Skip	Skip	5
		Print	6
	Skip	7	

905-B = 1. Tax amount printed on receipt when GST is VAT.

2. Tax amount printed when tax amount is "0".

1. GST for VAT	2. Tax amount at "0"	905-B
Print	Print	0
	Skip	1
Skip	Print	2
	Skip	3

905-C = GST EXPT sales is printed on the X/Z reports or skipped.

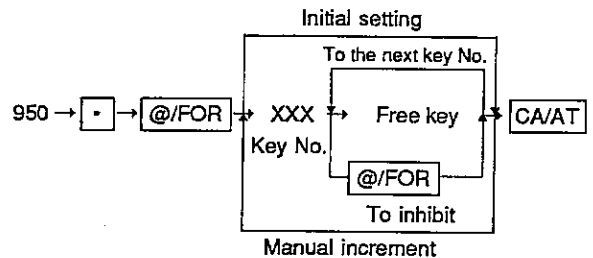
GST EXPT on the report	905-C
Print	0
Skip	4

905-D = Tax method

	Tax4 method (GST)	Tax3 method		Tax2,1 method (PST)	905-D
		GST	PST		
Type ①	VAT	VAT	X	Tax on Tax	0
Type ②				Tax on Base	1
Type ③	VAT	X	X	Tax on Tax	2
Type ④				Tax on Base	3
Type ⑤	Add on Tax	X	X	Tax on Tax	4
Type ⑥				Tax on Base	5
Type ⑦	Add on Tax	VAT	X	Tax on Tax	6
Type ⑧				Tax on Base	7
Type ⑨	Add on Tax	Add on Tax	X	Tax on Tax	8
Type ⑩				Tax on Base	9

[JOB#950]: Free key layout programming

• For information to program function keys other than the Tax 4 SHIFT key, please refer to page 23 of the ER-3220 Service Manual (code: 00ZER3220SM-E)



Tax 4 SHIFT key No. = 28

NOTE: "FSSFT" key no. is replaced by "TX4SF".

QUEBEC PST TVQ 75000  
GST TPS 70,000

905 D DIGIT = 8.

TX4 = ADD ON  
TX1 = TONT

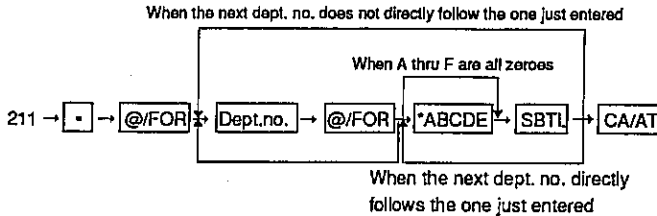
## 4. PGM MODE PROGRAMMING

NOTE: Only when the Canadian tax mode is selected by Job#901-C during SRV mode programming, the following PGM setting becomes effective, except that the food stamp setting becomes invalid.

### 1. Department or PLU tax setting

[JOB#211] Department MODIFY setting MRS=00000

NOTE: Prevents PST or GST tax overlap.



#### \*A: Sign (+/-)

To assign the plus sign, enter 0; and to assign the minus sign, enter 1.

#### B: Tax 4 status (fixed to the GST)

- To assign "non-taxable," enter 0.
- To assign "taxable 4," enter 1.

#### C: Tax 3 status (usable for the GST)

- To assign "non-taxable," enter 0.
- To assign "taxable 3," enter 1.

#### D: Tax 2 status

- To assign "non-taxable," enter 0.
- To assign "taxable 2," enter 1.

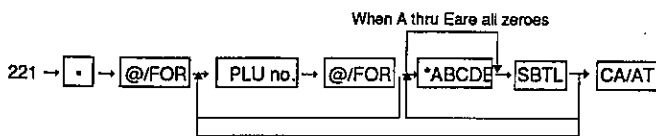
#### E: Tax 1 status

- To assign "non-taxable," enter 0.
- To assign "taxable 1," enter 1.

[JOB#221]: PLU MODIFY setting

MRS=00000

NOTE: Prevents PST or GST tax overlap.



#### A: Sign (+/-)

To set as a plus PLU, enter 0, and to set as a minus PLU, enter 1.

#### B: Tax 4 status (fixed to the GST)

- To assign "non-taxable," enter 0.
- To assign "taxable 4," enter 1.

#### C: Tax 3 status (usable for the GST)

- To assign "non-taxable," enter 0.
- To assign "taxable 3," enter 1.

#### D: Tax 2 status

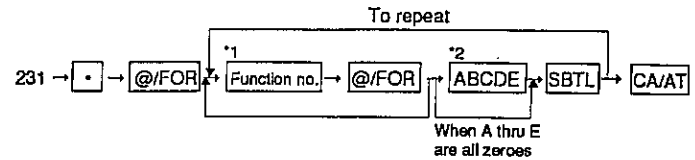
- To assign "non-taxable," enter 0.
- To assign "taxable 2," enter 1.

#### E: Tax 1 status

- To assign "non-taxable," enter 0.
- To assign "taxable 1," enter 1.

[JOB#231]: % key, ⊖ key tax setting

MRS=10000



#### \* 1: Function no.

- 7: For the [%1] key, 9: For the [%3] key (\*), 3: For the ⊖1 key, 5: For the ⊖3 key (\*)
- 8: For the [%2] key, 10: For the [%4] key (\*), 4: For the ⊖2 key, 6: For the ⊖4 key (\*)

#### \* 2: As follows:

##### A: Sign (+/-)

To select the + (premium) sign, enter nothing and to select the - (discount) sign, enter 1.

##### B: Tax 4 status (fixed to the GST)

- To assign "non-taxable," enter 0.
- To assign "taxable 4," enter 1.

##### C: Tax 3 status (usable for the GST)

- To assign "non-taxable," enter 0.
- To assign "taxable 3," enter 1.

##### D: Tax 2 status

- To assign "non-taxable," enter 0.
- To assign "taxable 2," enter 1.

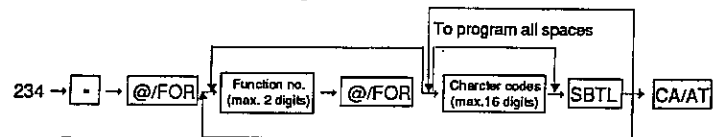
##### E: Tax 1 status

- To assign "non-taxable," enter 0.
- To assign "taxable 1," enter 1.

NOTE: The standard keyboard is not equipped with those keys marked with a (\*).

PST'S or GST'S may overlap with each other in the tax status programming.

[JOB#234]: MISC tax setting



#### • Function list

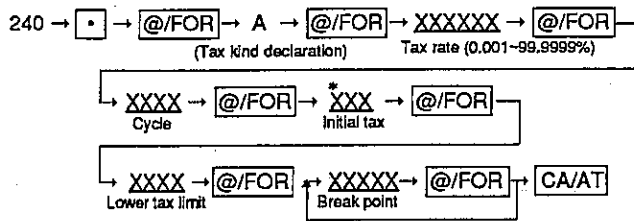
Function no.	Key or function	In default of programming	Function no.	Key or function	In default of programming
3	⊖1	(-)	51	RA	RA
4	⊖2	(-)2	52	PO	PO
5	⊖3	(-)3	56	Currency conversion	CONV
6	⊖4	(-)4	58	Charge 1	CHARGE1
7	%1	%1	59	Charge 2	CHARGE2
8	%2	%2	60	Charge 3	CHARGE3
9	%3	%3	61	Charge 4	CHARGE4
10	%4	%4	62	Charge 5	CHARGE5
			63	Check	CHECK
22	Net manual tax total	M-TAX	76	Subtotal	SBTL
28	Void	VOID	78	Total	***TOTAL
			79	Change	CHANGE
32	Refund	REFUND	15	Net tax 1 total	TAX1
37	No-sale	NOSALE	19	Net tax 2 total	TAX2
			97	Net tax 3 total	TAX3
48	Cash	CASH	85	Net tax 4 total	TAX4
49	Cash2	CASH2	23	Exempt total from GST	GST EXPT
			98	PST total	PST TTL
			99	GST total	GST TTL

NOTES: • Each character is represented by a 2-digit code.

• Character on the expansion flat keyboard can be typed.

**[JOB#240]: Tax table setting**

NOTE: "Tax rate = 0%" is established if the tax table has been programmed with GST for VAT.



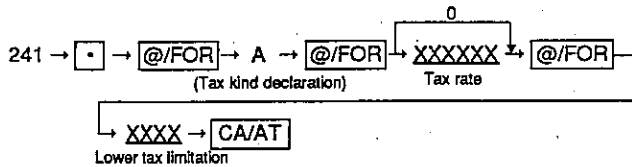
May be programmed to 40 break points.

\* It means to delete the tax table if the [SBTL] is pressed in the following timing.

- A : TABLE 1 PROGRAMMING = 1
- TABLE 2 PROGRAMMING = 2
- TABLE 3 PROGRAMMING = 3
- TABLE 4 PROGRAMMING = 4
- TAX RATE = 0.0001~99.9999%
- CYCLE = 0.01~99.99
- INITIAL TAX = 0.01~9.99
- LOWEST TAX AMOUNT = 0.01~99.99
- BREAK POINT = 0.01~999.99 (MAX 40 POINTS)

**[JOB#241]: Tax rate setting**

NOTE: Lower tax limitation setting is disregarded if GST is VAT.

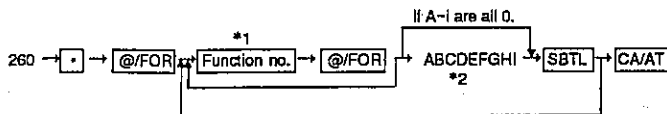


- A : TABLE 1 PROGRAMMING = 1
- TABLE 2 PROGRAMMING = 2
- TABLE 3 PROGRAMMING = 3
- TABLE 4 PROGRAMMING = 4
- % TAX RATE = 0.0000~99.9999%
- LOWER TAX LIMITATION = Max. 99.99

NOTE: When the tax table or tax rate is set, no decimal point key is required.

**[JOB#260] Media key programming**

MRS=00000000



\* 1

Function No.	Function	A	B	C	D	E	F	G	H
48	CA1	○	X	○	○	○	○	○	○
49	CA2	○	X	○	○	○	○	○	○
63	CHK	○	○	○	○	○	○	○	○
58	CH1	○	○	○	○	○	○	○	○
59	CH2	○	○	○	○	○	○	○	○
60	CH3	○	○	○	○	○	○	○	○
61	CH4	○	○	○	○	○	○	○	○
62	CH5	○	○	○	○	○	○	○	○

\* Noted with a circle "O" is a programmable item.

\*2 A: Non-add code compulsory

To select compulsory non-add code entry, enter 1  
To select optional non-add code entry, enter 0

B: Change enable

To select change disable, enter 1  
To select change enable, enter 0

C: Validation print compulsory

To select compulsory validation, enter 1  
To select optional validation, enter 0

D: Tax 4 calculation status

To delete tax 4, enter 1  
To calculate tax 4, enter 0

E: Tax 3 calculation status

To delete tax 3, enter 1  
To calculate tax 3, enter 0

F: Tax 2 calculation status

To delete tax 2, enter 1  
To calculate tax 2, enter 0

G: Tax 1 calculation status

To delete tax 1, enter 1  
To calculate tax 1, enter 0

H: Drawer open

To have the drawer remain closed, enter 1  
To have the drawer open, enter 0

I: Compulsory amount tendering

To select compulsory amount tendering, enter 1  
To select optional amount tendering for CA/AT, CA2 or CHK key; and to inhibit amount tendering for CH1 thru CH5 keys, enter 0.

For details of PGM programming, refer to the instruction manual.