NEW CANADIAN TAX
(3 TAX)

# INSTALLATION MANUAL

MODEL ER-2385(S)
ER-2395(S)

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MAIN PWB PARTS LAYOUT
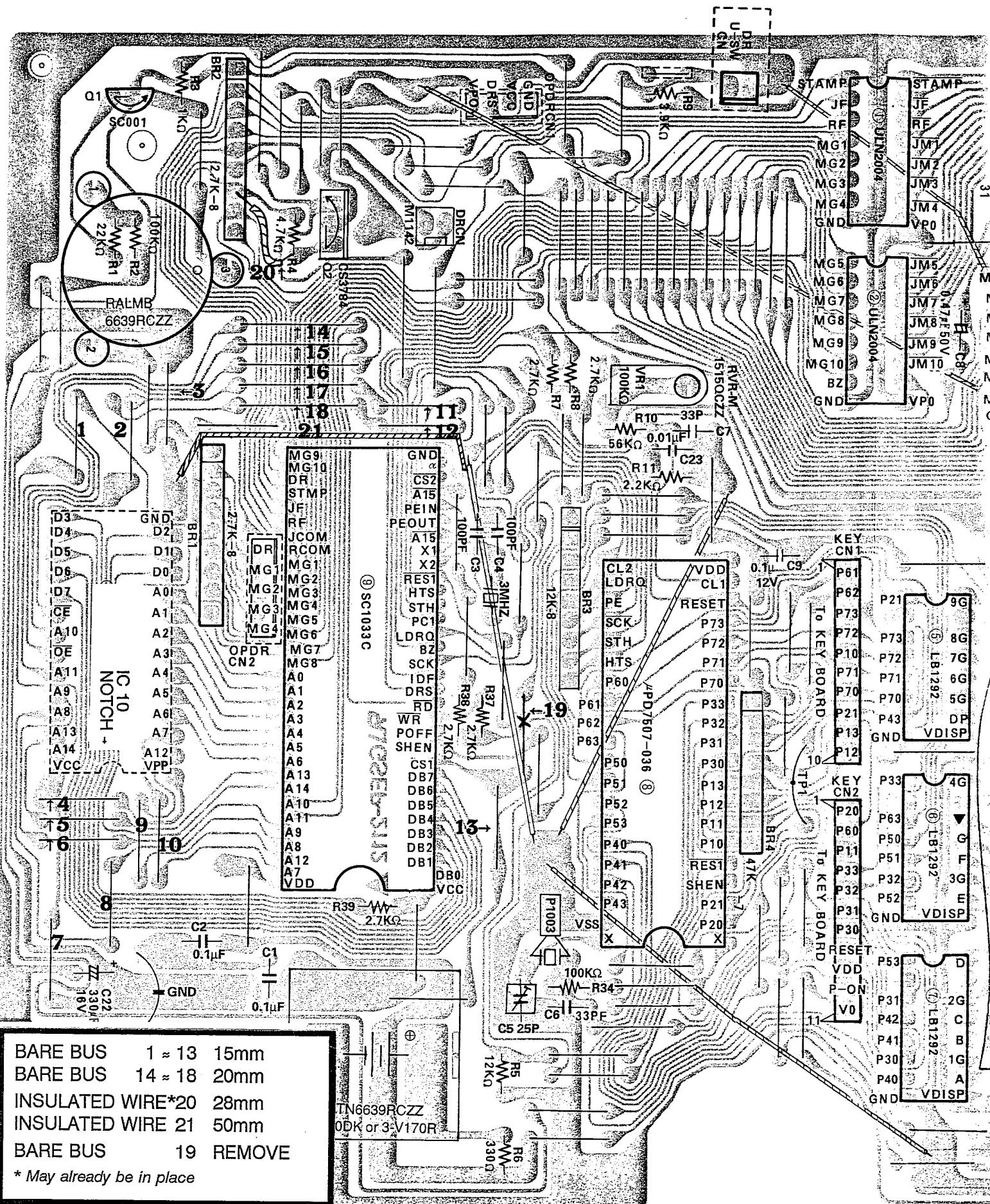
BARE BUS	$1 \approx 13$	15mm
BARE BUS	$14 \approx 18$	20mm
INSULATED WIRE*20		28mm
INSULATED WIRE 21		50mm
BARE BUS	19	REMOVE

May already be in place

2

1. GST MODIFICATION PROCEDURE

1) BEFORE PROCEEDING WITH INSTALLATION

Check that your GST Kit includes the following:
- 1 EPROM*
- 1 Instruction Manual (3 TAX)
- 1 IC Socket
- 2 "G" Labels
- Insulated wire 100mm
- 1 "TAX 3 SHIFT" Label
- Bus wire 350mm

*ROM ID# ER-2385S/95S RCM1A
ER-2385/95 RCO1A
(ROM version may differ when an upgraded version is used)

◄ NOTCH

<u>WARNING!</u>
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 Mode Switch **OFF** and unplug the machine.

2- Remove the top cabinet and then remove the keyboard.

3- Note the location of **IC 10** on the main PWB:
- If there is no socket installed at this position, install the socket enclosed with this kit. The socket notch must face in the same direction as the notch of the two LSI's. See page 2.

4- All connection points will need to be de-soldered before wiring.

5- For cutting to length, and placement of insulated wire and bare bus, see page 2.

6- Insert the **GST ROM** into the **IC10** socket with the notch of the EPROM and the socket aligned. Be careful to prevent damage to EPROM legs. Visually check that each leg is fully inserted into the socket and no leg is bent.

7- Check all changes carefully when finished.

8- Replace the keyboard and top cabinet.

9- Plug in the AC cord.

10- Perform a **Master Reset**:

   - Turn the **MODE** switch to **SRV2** (6 o'clock) position
   - Press and hold the **9** key and turn the **MODE** switch to **SRV1** (7 o'clock)

     • For the ER-2385(S), press **90** and **CA/AT**
     • For the ER-2395(S), press **91** and **CA/AT**

3) CONFIRMATION

Turn the key to the **SRV1** (7 o'clock) position, enter 11 then press **CA/AT**
   Printout:
   11 - Normal
   11E - Error

VERIFICATION TEST FOR ROM WITH GST
TURN TO PGM MODE
241 → ▣ → @/FOR → 3 → @/FOR*
*KEY CATCH SOUND - GST ABLE
*ERROR BEEP - GST UNABLE
PUSH CL TO TERMINATE TEST

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

2. SRV MODE PROGRAMMING
(★ indicates MRS setting)

[JOB #901]: MRS = 0022

901 → ▣ → @/FOR ⌐0⌐ ABCD ↓ CA/AT

901-A,B = Not used. (Fixed at "00")
901-C = Tax mode selection by country

Tax setting by country	901-C
USA	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 #913]: MRS = 0000 (ER-2385S/2385/2395)
　　　　　　　 = 0031 (ER-2395S)

913 → ▣ → @/FOR ⌐0⌐ ABCD ↓ CA/AT

913-A,B = TAX 3 SHIFT key position
AB = 0: No TAX 3 SHIFT key
AB = 1•~30•: Key position

			9•	10•		11•	17•		23•	27•
↑R	↑J		@/FOR	.	CL	12•	18•		24•	28•
1•	5•		7	8	9	13•	19•		25•	29•
2•	6•		4	5	6	14•	20•		26•	30•
3•	7•		1	2	3	15•	21•		SBTL	
4•	8•			0	00	16•	22•		CA/AT	

913-C = 1. Open PLU
　　　　　 2. Check cashing

1. Open PLU	2. Check cashing	913-C
Disable	Disable	0 ★
	Enable	1
Enable	Disable	2
	Enable	3

913-D = CONV key position

CONV key position	913-D
TAX 2 SHIFT	0 ★
CONV	1
DEPT 15	2
% 2	3

NOTE: The function of the key replaced by the TAX 3 SHIFT key cannot be used for entries, but it remains valid.

[JOB #914]: MRS = 0005

914 → ▣ → @/FOR ⌐0⌐ ABCD ↓ CA/AT

914-A = 1. Taxable 3 subtotal is printed on X/Z reports or skipped
　　　　　 2. Gross tax 3 and refund tax 3 are printed on X/Z reports or skipped
　　　　　 3. Net tax 3 total is printed on X/Z reports or skipped

1. Taxable 3 subtotal	2. Gross tax 3 & refund tax 3 total	3. Net tax 3 total	914-A
PRINT	PRINT	PRINT	0 ★
		SKIP	1
	SKIP	PRINT	2
		SKIP	3
SKIP	PRINT	PRINT	4
		SKIP	5
	SKIP	PRINT	6
		SKIP	7

914-B = 1. The tax amount is printed on the receipt or skipped when GST is VAT
　　　　　 2. The tax amount is printed on the receipt or skipped when the tax amount is 0 (zero)

1. When GST is VAT	2. When tax amount is 0	914-B
PRINT	PRINT	0 ★
	SKIP	1
SKIP	PRINT	2
	SKIP	3

914-C = 1. GST EXPT total is printed on the X/Z reports or skipped

1. GST EXPT on the report	914-C
PRINT	0 ★
SKIP	4

914-D = Tax method

	Tax 3 method (GST)	Tax 2 method		Tax 1 method (PST)	905-D
		GST	PST		
TYPE 1	VAT	VAT		TAX ON TAX	0
TYPE 2				TAX ON BASE	1
TYPE 3	VAT			TAX ON TAX	2
TYPE 4				TAX ON BASE	3
TYPE 5	ADD ON TAX			TAX ON TAX	4
TYPE 6				TAX ON BASE	5 ★
TYPE 7	ADD ON TAX	VAT		TAX ON TAX	6
TYPE 8				TAX ON BASE	7
TYPE 9	ADD ON TAX	ADD ON TAX		TAX ON TAX	8
TYPE 10				TAX ON BASE	9

NOTE: JOB #912 ≈ 915 on ER-2385/95 is changed to 940 ≈ 943
JOB #916 ≈ 917 on ER-2385/95 is changed to 930 ≈ 931

[JOB #940 ~ 943]: MRS = 000000
Programming the amounts of GT2 (Gross GT) and GT3 (Refund GT)

```
      ┌──────0──────┐
940
 ~  → ⊡ → @/FOR → XXXXXX → CA/AT
943
```

940: Upper 6 digits of GT2
941: Lower 6 digits of GT2
942: Upper 6 digits of GT3
943: Lower 6 digits of GT3

MRS = 000000000000 (12 digits) (GT2, GT3)

[JOB #930, 931]: MRS = 0000
Programming the Z1 and Z2 counters

```
      ┌────0────┐
930
 ~  → ⊡ → @/FOR → XXXX → CA/AT
931
```

930: Z1 counter
931: Z2 counter

3. PGM MODE PROGRAMMING
The following PGM programming jobs are valid only when the Canadian tax specification has been selected in the SRV programming.

[JOB #211]: Department modify programming   MRS = 0000
NOTE: Prevents PST or GST tax overlap

```
      ┌────0────┐
211 → ⊡ → @/FOR → ABCD → DEPT → CA/AT
      └─────────┘
      To repeat
```

A: Tax 3 status (fixed to the GST)
   • To assign "non-taxable", enter 0
   • To assign "taxable 3", enter 1
B: Tax 2 status (usable for the GST)
   • To assign "non-taxable", enter 0
   • To assign "taxable 2", enter 1
C: Tax 1 status
   • To assign "non-taxable", enter 0
   • To assign "taxable 1", enter 1
D: Sign (±)
   • To assign the plus sign, enter 0
   • To assign the minus sign, enter 1

[JOB #221]: PLU MODIFY setting   MRS = 0000

NOTE: Prevents PST or GST tax overlap
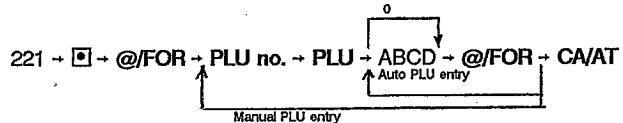
```
                      ┌──0──┐
221 → ⊡ → @/FOR → PLU no. → PLU → ABCD → @/FOR → CA/AT
                     ↑          ↑ Auto PLU entry
                     └──────────┘
                      Manual PLU entry
```

A: Tax 3 status (fixed to the GST)
   • To assign "non-taxable", enter 0
   • To assign "taxable 3", enter 1
B: Tax 2 status (usable for the GST)
   • To assign "non-taxable", enter 0
   • To assign "taxable 2", enter 1
C: Tax 1 status
   • To assign "non-taxable", enter 0
   • To assign "taxable 1", enter 1
D: Sign (±)
   • To assign the plus sign, enter 0
   • To assign the minus sign, enter 1

[JOB #231] Miscellaneous key programming   MRS = 0001
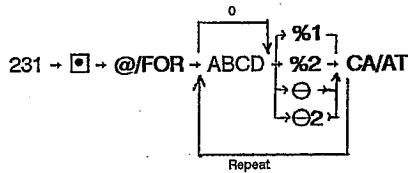
```
             ┌──0──┐ ┌→ %1 ┐
231 → ⊡ → @/FOR → ABCD → %2 → CA/AT
             ↑         └→ ⊖ →┤
             │         └→ ⊖2 ┘
             └───────────────┘
                  Repeat
```

A: Tax 3 status (fixed to the GST)
   • To assign "non-taxable", enter 0
   • To assign "taxable 3", enter 1
B: Tax 2 status (usable for the GST)
   • To assign "non-taxable", enter 0
   • To assign "taxable 2", enter 1
C: Tax 1 status
   • To assign "non-taxable", enter 0
   • To assign "taxable 1", enter 1
D: Sign (±)
   • To assign the plus sign, enter 0
   • To assign the minus sign, enter 1

NOTE: PSTs or GSTs may overlap with each other in the tax status programming.
NOTE: In case of ⊖ key, only the minus (−) sign can be assigned. Even if you enter "0" (plus) in assigning the sign to the ⊖ key, "1" (minus) is set automatically.

[JOB #240]: Tax table setting   MRS = No tax table

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

240 → ⊡ → @/FOR → A → @/FOR → <u>XXXXXX</u> → @/FOR →
                 Tax kind declaration   Tax rate (0.001~99.9999%)

   ↳ <u>XXXX</u> → @/FOR → <u>*XXX</u> → @/FOR →
      Cycle   Initial tax

   ↳ <u>XXXX</u> → @/FOR → <u>XXXX</u> → @/FOR → CA/AT
      Lower tax limit   Break point
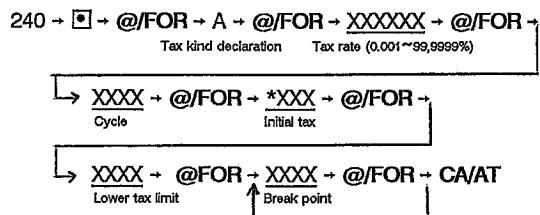
Programmable up to 20 break points.
* Deletes tax table if **SBTL** pressed at this point.

A: TABLE 1 PROGRAMMING	= 1	
TABLE 2 PROGRAMMING	= 2	
TABLE 3 PROGRAMMING	= 3	
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	= 0.01~99.99	
	(MAX 20 POINTS)	

[JOB #241]: Tax Rate setting   MRS = No tax

NOTE: The lower tax limitation is ignored if GST is VAT.

                            0

241 → ⊡ → @/FOR → A → @/FOR → <u>XXXXXX</u> → @/FOR →
                 Tax kind declaration   Tax rate

   ↳ <u>XXXX</u> → CA/AT
      Lower tax limit
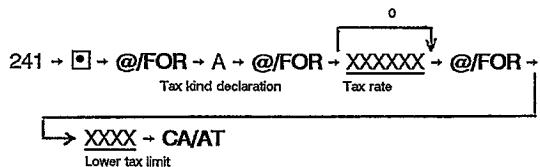
A: TABLE 1 PROGRAMMING	= 1
TABLE 2 PROGRAMMING	= 2
TABLE 3 PROGRAMMING	= 3
% TAX RATE	= 0.0000~99.9999%
LOWER TAX LIMIT	= Max 99.99

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

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