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You can read the recommendations in the user guide, the technical guide or the installation guide for SHARP ER-A220. You'll find the answers to all your questions on the SHARP ER-A220 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SHARP ER-A220
User guide SHARP ER-A220
Operating instructions SHARP ER-A220
Instructions for use SHARP ER-A220
Instruction manual SHARP ER-A220



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Manual abstract:

WARNING: Det matande vgguttaget skall placeras nra apparaten och vara lit atkomligt. **CAUTION:** For a complete electrical disconnection pull out the mains plug. **VORSICHT:** Zur vollstndigen elektrischen Trennung vom Netz den Netzstecker ziehen. @@@@ Please keep this manual for future reference, it will help you, if you encounter any operational problems. **IMPORTANT** Install your register in a location that is not subject to direct radiation, unusual temperature changes, high humidity or exposed to water sources. Installation in such locations could cause damage to the cabinet and the electronic components. The register should not be operated by an individual with wet hands. The water could seep into the interior of the register and cause component failure. When cleaning your register, use a dry, soft cloth. Never use solvents, such as benzine and/or thinner.

The use of such chemicals will lead to discoloration or deterioration of the cabinet. The register plugs into any standard wall outlet (Official (nominal) voltage). Other electrical devices on the same electrical circuit could cause the register to malfunction. If the register malfunctions, call your local dealer for service - do not try to repair the register yourself. For a complete electrical disconnection, pull out the mains plug.

PRECAUTION This Electronic Cash Register has a built-in memory protection circuit which is operated by rechargeable batteries. As you know, all batteries will, in time, dissipate their charge even if not used. Therefore to insure an adequate initial charge in the protection circuit, and to prevent any possible loss of memory upon installation, it is recommended that each unit be allowed to recharge for a period of 24 to 48 hours prior to use by the customer. In order to charge the batteries, the machine must be plugged in. This recharging precaution can prevent unnecessary initial service calls.

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To set the register number "0" 1 Register number (one to six digits) Key operation example Print 1 123456 Register number Setting the consecutive number The consecutive number is increased by one each time a receipt is issued. Enter a number (one to four digits) that is one less than the desired starting number.

To begin the count from 0001 2 2 1000 A number (one to four digits) that is one less than the desired starting number Key operation example Print Consecutive number 3 Programming the tax rate To program "0" To program "0" 9 *1 A 1-4 *2 Sign and tax rate ? *3 Lowest taxable amount To inhibit this tax rate *1: Enter a corresponding tax rate number. For example, when you program a tax rate as tax rate 1, enter 1. *2: Sign and tax rate: YYYY.

YYYY Tax rate= 0.0001 to 100.0000 Sign -/+ = 1/0 *3: Max. five digits: 0.00 to 999.

99 9 Key operation example Print 9 2 4 12 Tax rate 2 Tax rate: 4% Lowest taxable amount The lowest taxable amount is valid only when you select add on tax system. If you select VAT (Value added system), it is ignored. If you make an incorrect entry before pressing the third key in programming a tax rate, cancel it with the c key; and if you make an error after pressing the third key, finalize it with the key. Then program again from the beginning correctly. If you select VAT system, the sign which you program is ignored. 4 Programming for departments Your machine is equipped with 15 standard departments and 15 optional departments (departments 16 through 30). Functional programming Tax status Assign a tax status to each department. When entries are made into taxable departments in a transaction, tax is automatically computed according to the associated tax rate as soon as the transaction is completed. SICS (Single Item Cash Sale) If the first registration is to a department set for SICS, the sale is finalized as soon as the department key is pressed. If the sale is preceded by registrations to departments not set for SICS, a sale to a department set for SICS does not finalize and can be repeated until the key is pressed.

Sign You may assign each department to plus department for normal sales, or minus department for minus transaction. HALO(High Amount Lockout) Set the number of allowable digits for the maximum entry amount for each department. The limit is effective for operations in the REG mode and can be overridden in the MGR mode. Type of unit price entry You may select one of the following four types of unit price entry for each department. Open and preset / Preset only / Open only / Inhibit department key To set all zeros ABCDEFGHI * Dept. key To program another dept. *To program departments 16 through 30, press the department shift key at this point. 10 * Item: A B C D E F G H I VAT4 or TAX4 VAT3 or TAX3 VAT2 or TAX2 VAT1 or TAX1 SICS / Normal Sign Always enter 0. HALO Type of unit price entry Selection: Yes No Yes No Yes No Yes No SICS Normal Minus department Plus department Entry: 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0-7 3 2 1 0 Open and preset Preset only Open only Inhibit department key Key operation example Print 011011073 From left, EHI Tax status Sign(F) The tax system of your machine has been factoryset to automatic VAT14. If you desire to select any of automatic tax 14, manual VAT14, manual VAT1, manual tax 14, and the combination of the automatic VAT 1 and the automatic tax 24, consult your dealer.

When the combination of the automatic VAT1 and automatic tax 24 system is selected, one of the VAT1(D) can be selected in combination with tax 24.

Example: ABCD = 1001, 1010, 1100 Unit price You can program unit prices up to a maximum of six digits (9999.99). Even if a department is not programmed to allow the entry of preset unit prices in functional programming, the department is automatically changed to allow the entry of preset unit prices by this programming entry. To set zero Unit price(max.

six digits) Dept. key * Print To program another dept. *To program departments 16 through 30, press the department shift key at this point. Key operation example 1000 Unit price 11 5 Price lookup (PLU) programming Each PLU requires you to program the following: PLU code (three digits: 1 to 500) Associated department When a PLU is associated with a department, the following functions of the PLU depend on the programming for the corresponding department. Tax status HALO (only for the subdepartment) Single item cash sale Sign Unit price (max.

six digits) You will usually have unit prices programmed for individual PLUs as PLU preset unit prices. If you program unit price "0" for a PLU, you can enter only the selling quantity of the PLU, i.e. the PLU can be used only as a counter. PLU or subdepartment mode If the PLU mode (i.e. automatic preset unit price entry) is selected, individual PLU entries can be made by entering the assigned code and depressing the key. If the subdepartment mode is selected, the following key operations must be performed: Enter the price, press the key, enter the PLU code, and press the key. Unit price and associated department assignment To inhibit ? To program zero PLU code*1 Unit price (max. six digits) Dept.

key *2 To program the following PLU To program another PLU *1: 1 through 500 *2: To assign departments 16 through 30, press the department shift key at this point. Key operation example Print 1 125 Unit price Associated dept. PLU code 12 PLU/subdepartment mode To program "0" *1PLU code *2A To program the following PLU To program another PLU *1: 1 through 500 *2: 0 for subdepartment mode or 1 for PLU mode Key operation example Print 1 0 PLU/subdept. mode 6 Programming for miscellaneous keys Programming the rate (% , e) To program zero *Rate e or To program another rate *: Rate 0.00 -- 100.00 (% rate) 0.000000 -- 999.999999 (Currency exchange rate) Key operation example Print 10 . 25 0 . 6068 e Percent rate Currency exchange rate You must use a decimal point when setting rates that are fractional.

13 Programming the discount key amount (-) To program zero Discount amount (max.



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six digits) - Print Key operation example 1000 Discount amount Programming the percent rate limitation (%) You can program the upper limit of percent rates for percent entries. (Percent entries that exceed the upper limit may be overridden in the MGR mode.) To program zero 29 Percentage limit (0.00 -100.00) or To program for another percent key 10.00% can be entered as 1 0 or 1 fractional entry. Key operation example 0 . 0 0. The . key is needed only for Print 15 29 . 00 Percentage limit Programming function parameters for - and % keys +/- sign Programming of the +/- sign assigns the premium or discount function for each key. Item % / Item Percent/discount calculation for the individual department and PLU Subtotal % / Subtotal Percent/discount calculation for the subtotals Limit amount (HALO) (For discount key only) The HALO limit is in effect for the REG-mode operations but can be overridden in the MGR mode. The HALO limit is represented by the number of allowable digit for the maximum entry amount for discount key. To program "0" for all items *ABCD or 14 To program for another key *: Item: A B C D +/- sign Item % / Item Subtotal % / Subtotal Limit amount* for discount key Selection: + (premium) sign - (discount) sign Enable Disable Enable Disable Entry: 0 1 0 1 0 1 0-7 * When programming for percent keys, always enter 0. Key operation example Print 1006 - From left, BCD Sign(A) Programming function parameters for e key Currency exchange rate entry selection You can enable or disable preset and manual entry of currency exchange rate. Number of digits after decimal point Set the number of digits after decimal point which is printed on the receipts for currency exchange amount. To program "0" for all items *ABC e Selection: Enable Disable Enable Disable Entry: 0 1 0 1 0-3 To change settings *: Item: A B C Manual rate entry Preset rate entry Number of digits after decimal point Key operation example Print e 001 From left, ABC 15 Programming function parameters for ; , ' , r and p keys Footer printing This programming decides whether or not your machine should print a message at the foot of a receipt when a specified media key is used. Amount tendered compulsory You may select amount tendered compulsory or optional for the ; and ' keys. You may select amount tendered compulsory or inhibited for the key.

Limit amount (HALO) For the ; , r and p keys, program upper limit entry amount for the tendered amount. For the ; key, program upper limit entry for total cash amount which can be handled on your register. The HALO limit is in effect for REG-mode operation but can be overridden in the MGR mode. The HALO limit is represented by the number of allowable digits for the maximum entry or total amount. When "0" is set, the operation of the corresponding key is prohibited. To program "0" for all items *IABC *2 , ', r p or *2: Press key for ; key setting. Entry: 1 0 1 0 0 0-8 To program for another key *1: Item: A B Footer print* Amount tendered entry* Selection: Yes No Compulsory Non-compulsory for the ; or ' keys Inhibit for the key C Limit amount * When programming for r or p key, always enter 0. Key operation example Print 018 From left, ABC 7 Text programming How to program alphanumeric characters Your register allows you to program the text for departments, PLUs, function and so on in the character entry mode. If you enter a programming job that entails alphanumeric character input, the register automatically goes into the character entry mode. In the character entry mode, perform alphanumeric character input by referring to the alphanumeric character code table and entering the character codes with the numeric keys.

Entering character codes Numerals, letters and symbols are programmable by entering character codes and the key. See the alphanumeric character code table on the next page. Double-size characters can be made by entering the character code 253. All three digits of the character code MUST be entered (even if it starts with zeros). To program the word "SHARP" with the letter "S" being double size 253 083 072 065 082 080 S H A R P 16 Alphanumeric character code table Code Character 001 002 003 004 005 006 007 008 009 010 011 oe 012 u 013 014 o 015 016 017 018 019 020 021 022 023 024 025 026 027 028 U 029 030 O 031 032 (space) 033 ! 034 " 035 # 036 \$ 037 % 038 & 039 ' 040 (041) 042 043 + 044 , 045 Code Character 046 . 047 / 048 0 049 1 050 2 051 3 052 4 053 5 054 6 055 7 056 8 057 9 058 : 059 ; 060 < 061 = 062 > 063 ? 064 @ 065 A 066 B 067 C 068 D 069 E 070 F 071 G 072 H 073 I 074 J 075 K 076 L 077 M 078 N 079 O 080 P 081 Q 082 R 083 S 084 T 085 U 086 V 087 W 088 X 089 Y 090 Z Code Character 091 092 093 094 ^ 095 _ 096 ' 097 a 098 b 099 c 100 d 101 e 102 f 103 g 104 h 105 i 106 j 107 k 108 l 109 m 110 n 111 o 112 p 113 q 114 r 115 s 116 t 117 u 118 v 119 w 120 x 121 y 122 z 123 { 124 \ 125 } 126 127 128 !! 129 1 130 2 131 3 132 4 1/2 133 F 134 T 135 Code Character 136 137 138 139 140 141 F 142 T 143 144 145 146 147 148 149 150 151 152 153 154 Pt 155 i 156 157 158 159 160 161 162 163 164 . 165 177 178 A 180 a 181 E 182 e 183 I 184 i 185 186 U u 187 N 188 . n 189 . 190 C 191 S C 192 . Code Character . 193 I . 194 G 195 S . 196 G . . 197 g 198 K . 199 k . L 200 l 201 Z 202 D 203 d 204 C 205 c 206 207 P 208 209 e 210 s 211 c 212 z 213 y 214 . u 215 n 216 217 218 r 219 224 225 226 227 228] 229 [230 231 " 232 233 234 235 236 237 238 *(DC) 253 (DC): Double-size character code v v 17 Programming the department text You can program a maximum of 16 characters of text for each department. Program the text by entering the character codes. To keep the current setting 1 .

Character code (3 digits) Up to 16 characters To program another department Print Dept. key * *To program departments 16 through 30, press the department shift key at this point. Key operation example 1. 070 082 085 073 084 Text programmed for dept. 1 Programming the PLU text (item label) You can program a maximum of 16 characters of text (item label) for each PLU or subdepartment. Program the text by entering the character codes. To keep the current setting 2. PLU code Character code (3 digits) Up to 16 characters To program the next PLU To program another PLU Key operation example Print 2. 1 077 069 076 079 078 Programming the function text Text programmed for PLU code 1 You can program a maximum of 12 characters of text for each function key and other functions using the table on the following pages. Program the text by entering the character codes.



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To keep the current setting 3. 18 *Function no. (max. 2 digits) Character code (3 digits) Up to 12 characters To program another function text * Function no.: See "List of function texts" shown on the following page.

Key operation example Print 3. 25 067 065 082 068 List of function texts Function no. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 Key or function Default setting Function no. 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 MODE MGR SBTL NO SALE RA PO 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 Key or function Customer Paid total Domestic currency 1 Domestic currency 2 Dom. currency for EX credit Cheque in drawer (+) Dept total (-) Dept total Default setting GUEST PAID TL DOM.

CUR1 DOM.CUR2 DOM.CUR1 CH ID DEPT TL DEPT (-) %1 %2 Differ Taxable 1 subtotal Taxable 2 subtotal Taxable 3 subtotal Taxable 4 subtotal VAT/tax 1 VAT/tax 2 VAT/tax 3 VAT/tax 4 Net 1 Net 2 Refund Void Void mode total MGR void Subtotal void No sale RA PO Cash Cheque Credit Exchange (Preset rate) Exchange (Open rate) Exchange is Exchange cheque Exchange credit Cash in drawer Cash/cheque is Cash/cheque in drawer Change for cheque (1) %1 %2 DIFFER TAX1 ST TAX2 ST TAX3 ST TAX4 ST VAT 1 VAT 2 VAT 3 VAT 4 Dom. currency for EX cheque DOM.CUR1 Net 1 (Taxable 1 - VAT/tax 1) NET 1 Net 2 (Taxable 2 - VAT/tax 2) NET 2 Net 3 (Taxable 3 - VAT/tax 3) NET 3 Net 4 (Taxable 4 - VAT/tax 4) NET 4 Subtotal Merchandise subtotal Total Change Sales q'ty Average CCD CCD differ total Total tax Net without tax Department report title PLU report title Transaction report title Cashier report title Hourly report title Daily net report title Non add symbol (8 chara.) Copy receipt title EJ report title EJ report end title SUBTOTAL MDSE ST TOTAL CHANGE ITEMS AVE. NET1 NET2 REFUND CCD CCD DIF. DIF. TL TTL TAX CASH CHECK CREDIT EXCH1 EXCH2 EXCH1 IS EX1 CHK EX1 CR CID CA/CH IS CA/CH ID CHK/CG NET DEPT PLU TRANS. CASHIER HOURLY DAILY # COPY EJ EJ END 19 Programming the cashier names
You can program a maximum of 12 characters of cashier name for each cashier.

Program the text by entering the character codes. To keep the current setting 5. Cashier code (1-6) Character code (3 digits) Up to 12 characters To program another cashier name Key operation example Print 5. 1 068 065 086 073 068 Programming logo messages Your register can print programmed messages for customers on every receipt. On the standard model, only graphic logo is printed on the receipt (If you want a graphic logo customized for your store, please consult with your dealer.). If you want to print logo message, please change the logo print format. (See page 25 for the programming details.) You have five options described below. Program the text by entering the character codes.

To keep the current setting 4. *Line number (1-6) Character code (3 digits) Up to 30 characters To program another line * "Header 3-line message" type: 1 to 3 "Footer 3-line message" type : 4 to 6 "Header 6-line message" type: 1 to 6 "Header 3-line and footer 3-line message" type: 1 to 6 (1 to 3 as header, 4 to 6 as footer) Text 1st line Graphic logo Text 2nd line Text 3rd line Text 1st line Text 2nd line Text 3rd line Text 4th line Text 5th line Text 6th line Graphic logo Graphic logo Text 1st line Text 2nd line Text 3rd line Text 4th line Text 5th line Text 6th line Text 1st line Text 2nd line Text 3rd line Text 4th line Text 5th line Text 6th line Default setting Header 3-line message Footer 3-line message Header 6-line message 20 Header 3-line message and footer 3-line messages To program "THANK YOU" with double size and being centered on the third line as the logo message: Key operation example Print 4. 3 032 032 032 032 032 032 084 253 072 253 065 253 078 253 075 032 032 253 089 253 079 253 085 6-line logo message is preprogrammed when shipped. So, please start entering from the first line when you first program a logo message. Programming foreign currency symbol Foreign currency symbol for e key is printed on a foreign currency exchange amount which rate is preset by programming.

Program the text by entering the character codes. To keep the current setting 6. Character code (3 digits) Up to 4 characters Print Foreign currency symbol Key operation example 6. 032 032 032 207 Programming domestic currency symbol " " is set as a default setting. When you want to change the domestic currency symbol, program the symbol (max.

4 characters) by entering the character codes. To keep the current setting 85. Character code (3 digits) Up to 4 characters Print Key operation example 85. 032 032 032 042 Domestic currency symbol 21 8 Programming various functions You can continue programming until key is pressed for the programming described in this section. To continue programming, repeat from the first numeric key entry. Programming optional feature selection You can enable or disable the operation of Paid out, Received-on account, Refund, No-sale, Void in the REG-mode, and also select if you enable fractional quantity entry or not. To set "0" for all items * Item: A B C D E F G H Paid-out in the REG-mode 5 Enable Disable Enable Disable Enable Disable Enable Disable Enable Disable Enable Disable Enable Disable Enable Disable *ABCDEFGH Entry: 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 Selection: Received on account in the REG-mode Subtotal void in the REG-mode Indirect void in the REG-mode Direct void in the REG-mode Refund entry in the REG-mode No sale in the REG-mode Fractional quantity entry Key operation example Print 5 00000100 Programming print format You can program; Printer type - Use printer as journal printer or for issuance of receipt Receipt print form - Detailed receipt print or summary receipt print On the summary receipt print, the details of each item are not printed.

Date print selection for receipts Consecutive number print selection Separator line in the reports Zero skip for reports To set "0" for all items 22 6 *ABCDEFGH * Item: A B C D E F G H Printer type Receipt print form Always enter 0. Date print on receipts Consecutive no. print Separator line in reports Zero skip in PLU report Zero skip in general/cashier/hourly/ daily report Selection: Journal printer Receipt printer Total Detailed Yes No Yes No Separator line One line space Yes No Yes No Entry: 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 Key operation example Print 6 10000111 Programming receipt print format You can make selection of; Subtotal print when key is pressed VAT/tax amount print Taxable amount print NET amount print Purchase number printing To set "0" for all items * Item: A-B C D E F G H 7 Yes No Yes No Yes No Yes No Yes No *ABCDEFGH Entry: 0 1 0 0 0 1 0 1 0 1 0 1 Selection: Always enter 0.



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Subtotal print with a press of subtotal key Always enter 0. VAT/tax amount print Taxable amount print Net amount print Purchase no. print Key operation example Print 7 00000001 23 Programming EURO system settings For details of EURO system settings, please refer to "PROGRAMMING FOR EURO". Printing exchange total amount and change amount on receipt or journal Total and change amounts in exchange currency are printed respectively below each of the total and exchange amounts in domestic currency. Cheque and credit operation when tendering in foreign currency Exchange calculation method "Division" or "Multiplication" can be selected for the conversion method from domestic currency to exchange currency, and the calculation is performed as follows: In case that "Division" is selected: Domestic currency amount Exchange rate = Exchange amount In case that "Multiplication" is selected Domestic currency amount Exchange rate = Exchange amount To set "0" for all items * Item: A B C D 8 Yes No *ABCD Entry: 1 0 0 1 0 1 0 Selection: Printing exchange total amount and change amount on receipt or journal Always enter 0. Cheque and credit operation when tendering in foreign currency Exchange calculation method Yes No Division Multiplication Key operation example Print 8 1000 Programming power saving mode For the details of power saving mode, please refer to "Power saving mode" of "PRIOR TO ENTRIES". To set "0" for all items * Item: A 10 Selection: Yes No *ABCD Entry: 0 1 001-254 or 999* Entering power saving mode when time is displayed B-D Time(min.) to entering power saving mode since no operation is made * 999: inhibit entering power saving mode Key operation example Print 10 0060 24 Programming logo message print format You can select the number of lines of logo message, and the position to print it on receipt or journal. To set "0" 11 *A *A: Logo message type 0: Header 3-line message without graphic logo 1: Graphic logo only 2: Footer 3-line message with graphic logo 3: Header 6-line message 4: Header 3-line message with graphic logo 5: Header 3-line message and footer 3-line message Key operation example Print 11 0 Programming RS-232C interface To realize the on-line communication, please consult with your dealer. (1) RS-232C terminal number To set "0" 30 Terminal number (max. 6 digits) (2) RS-232C transmission form To set "00" * Item: A B Always enter 0. Transmission line form 31 Selection: *AB Entry: 0 1 0 Half duplex system Full duplex system (3) RS-232C transmission type and baud rate To set "00" * Item: A B Transmission type Baud rate (bps) 32 Selection: *AB Entry: 1 0 3 4 5 6 Send print data Download/upload RAM data 2400 4800 9600 19200 25 (4) RS-232C start code and end code To set "000000" 33 *ABCDEF *A-C: Start code 000-127 D-F: End code 000-127 (5) RS-232C time out setting To set "0" (6) RS-232C print data 35 Time out (1 to 255 sec.) To set "0" for all items * Item: A B C Sensing DR signal Sensing CS signal Sending all print data 36 Selection: Yes No Yes No Yes No *ABC Entry: 0 1 0 1 1 0 Key operation example Print 30 2 Programming thermal printer density To set "0" 50 *Printer density (00-99) * "00" = 70% for standard density "50" = 100% for standard density "99" = 130% for standard density Key operation example Print 50 00 26 Language selection To set "0" *Language: 88 0: English 1: German 2: French 3: Spanish *Language Key operation example Print 88 1 When you change the language by executing this procedure, the texts such as department/PLU texts, logo message and function texts, which you programmed, will be reset to the default settings. Programming the AUTO key -- Automatic sequencing key -- If you program frequently performed transactions or report sequences for the AUTO keys, you can call those transactions and/or reports simply by pressing the corresponding AUTO keys in key operations. Delete ~ Key operation example Transaction max. 25 times ~ Print Programming for ~; entering a PLU 2 item (programmed unit price: 1.50) and a dept. 6 item (unit price: 1.00) ~ AUTO1 setting 2 100 ~ When the AUTO key has been programmed to execute a report job function etc., the mode switch must be in the appropriate position (X1/Z1 or X2/Z2). 27 9 Reading stored programs Your machine allows you to read every program stored in the PGM mode. Key sequence for reading stored program Report name Programming report Auto key programming report Printer density programming report PLU programming report Key sequence 1 3 End PLU code Start PLU code Sample printouts 1 Programming report Lowest taxable amount Mode Dept. code Dept. text Dept. unit price w/sign Dept. function Tax status Tax rate Cashier name Cashier code Function no. & its text Minus department Discount amt. w/sign Function parameters (A-C) Percent rate with sign Percent limit HALO Function parameters Foreign currency symbol/ Function parameters Rate Logo Message Optional feature selection (A-H) Print format (A-H) Receipt print format(A-H) EURO system setting(A-D) Power saving mode(A-D) Logo message print format RS-232C terminal no. RS-232C transmission form (AB) RS-232C transmission type/ baud rate(AB) RS-232C Start-End code RS-232C timeout RS-232C print data Thermal printer density 28 2 Auto key programming report 3 Printer density programming report Entered Value Printer density Printing density example 4 PLU programming report Range PLU code PLU text Mode parameter Unit price Associated dept. code TRAINING MODE The training mode is used when the operator or the manager practices register operations.

When a cashier set in training is selected, the machine automatically enters the training mode. When a cashier not set in training is selected, the machine automatically enters the ordinary REG mode. (For programming, consult your dealer.) The training operations is valid only in REG, MGR and mode. The corresponding cashier memory is updated in the training mode. Other memories are not updated. Key operation example Print 1000 3 29 READING (X) AND RESETTING (Z) OF SALES TOTALS Use the reading function (X) when you need to take a reading of sales information entered since the last resetting. You can take this reading any number of times. It does not affect the register's memory. Use the resetting function (Z) when you need to clear the register's memory.



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1. 2. Turn the mode switch to the position using the manager key (MA). Repeat the entries that are recorded on an incorrect receipt. (All data for the incorrect receipt are removed from register memory; the voided amounts are added to the void-mode transaction totalizer.) Incorrect receipt Cancellation receipt 39 FOR THE OPERATOR PRIOR TO ENTRIES 1 Preparations for entries Before registrations, insert the operator key into the mode switch and turn it to the REG position and check the following items: Paper roll If the paper roll is not set in the machine or there is low roll, install new one according to section "4. Installing and removing the paper roll" under "OPERATOR MAINTENANCE." Bill separator A bill separator is set in a drawer. When necessary, use the separator so that you can treat two kinds of bills in a bill case.

Receipt ON/OFF function When you use the printer to issue receipts, you can disable receipt printing in the REG mode to save paper using the receipt function. To disable receipt printing, press the key in the OP X/Z position. This key toggles the receipt printing status ON and OFF. To check the receipt printing status, turn the mode switch to the OP X/Z position or press the c key in the REG mode. When the function is in the OFF status, the receipt off indicator "_" illuminates. @@@@ Clear the error state by pressing the c key and take proper action. Please refer to the error code table on page 59. @@@@ If it is correct, it can be rung up in the MGR mode. Contact your manager. @@ Error escape function When you want to quit a transaction because of an error or something uncontrollable, use the error escape function as shown below: To clear the error state Transaction c The transaction is voided (treated as a subtotal void) and the receipt is issued by this function.

If you have already entered tendered amount, the operation is finalized as a cash sale. 41 ENTRIES 1 Item entries Single item entries Department entries Enter a unit price and press a department key. If you use a programmed unit price, press a department key only. When using a programmed unit price Unit price *1 (max. 7 digits) Department key *2 PLU code *1 Less than the programmed upper limit amounts *2 For the optional departments 16 through 30, press the department shift key at this point.

PLU entries Enter a PLU code and press the key. PLU code Subdepartment (open PLU) entries Unit price * (max. 7 digits) * Less than the programmed upper limit amounts When those departments and PLUs for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added. Key operation example 1200 Print 2 1200 11 Repeat entries You can use this function for entering a sale of two or more same items. Key operation example Repeated department entry Repeated PLU entry Repeated subdepartment entry Print 200 10 500 60 42 Multiplication entries Use this feature entry method when you need to enter two or more same items.

This feature helps when you sell a large quantity of items or need to enter quantities that contain decimals. When you use a programmed unit price Q'ty Unit price PLU code Unit price Dept. key Dept. entry PLU entry PLU code Subdept. entry Q'ty: Up to four digits integer + three digits decimal (When fractional quantity is entered, the quantity is counted as one.) Unit price: Less than a programmed upper limit Q'ty x unit price: Up to seven digits Key operation example Department entry PLU entry Print Subdepartment entry 7.5 165 15 13 3 100 60 Single item cash sale (SICS) entry This function is useful when a sale is for only one item and is for cash; such as a pack of cigarettes. This function is applicable only to those departments that have been set for SICS or to their associated PLUs or subdepartments. The transaction is finalized and the drawer opens as soon as you press the department key or key. Key operation example 250 For finishing the transaction Print If an entry to a department or PLU/subdepartment set for SICS follows the ones to departments or PLUs/subdepartments not set for SICS, it does not finalize and results in a normal sale.

43 2 Displaying subtotals The subtotal is displayed by pressing the key. When you press it, the subtotal of all entries which have been made is displayed and the symbol " " will light up in the display. Key operation example 100 100 700 Print Subtotal will not be printed on a receipt on the current factory setting. If you want to print it, change the setting by programming. Refer to "Programming receipt print format". 3 Finalization of transaction Cash or cheque tendering Press the key to get a subtotal, enter the amount tendered by your customer, then press the key if it is a cash tender or press the ' key if it is a cheque tender. When the amount tendered is greater than the amount of the sale, your register will show the change due amount and the symbol " " will light up. Otherwise your register will show a deficit and the symbol " " will light up. Make a correct tender entry. Cash tendering Key operation example Print 1000 Cheque tendering Key operation example Print 1000 ' 44 Cash or cheque sale that does not need any tender entry Enter items and press the key if it is a cash sale or press the ' if it is a cheque sale.

Your register will display the total sale amount. Key operation example Print 300 10 In the case of cheque sale Credit sale Enter items and press the credit key (.). Key operation example Print 2500 3250 Mixed-tender sale You can perform mixed-tendering of cheque and cash, cash and credit, and cheque and credit. Key operation example Print 950 4 Computation of VAT (Value Added Tax)/tax VAT/tax system The machine may be programmed for the following six tax systems by your dealer. Automatic VAT 1-4 system (Automatic operation method using programmed percentages) This system, at settlement, calculates VAT for taxable 1 through 4 subtotals by using the corresponding programmed percentages.

Automatic tax 1-4 system (Automatic operation method using programmed percentages) This system, at settlement, calculates taxes for taxable 1 through 4 subtotals by using the corresponding programmed percentages, and also adds the the calculated taxes to those subtotals, respectively. 45 Manual VAT 1-4 system (Manual entry method using programmed percentages) This system provides the VAT calculation for taxable 1 through 4 subtotals. This calculation is performed using the corresponding programmed percentages when the key is pressed just after the key. Manual VAT 1 system (Manual entry method for subtotals that uses VAT 1 preset percentages) To use a programmed rate VAT rate This system enables the VAT calculation for the then subtotal.



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This calculation is performed using the VAT 1 preset percentages when the key is pressed just after the key.

For this system, the keyed-in tax rate can be used. Manual tax 1-4 system (Manual entry method using preset percentages) This system provides the tax calculation for taxable 1 through 4 subtotals. This calculation is performed using the corresponding programmed percentages when the key is pressed just after the key. After this calculation, you must finalize the transaction. Automatic VAT 1 and automatic tax 2-4 system This system enables the calculation in the combination with automatic VAT 1 and automatic tax 2 through 4. The combination can be any of VAT1 corresponding to taxable 1 and any of tax 2 through 4 corresponding to taxable 2 through taxable 4 for each item. The tax amount is calculated automatically with the percentages previously programmed for these taxes. A PLU not programmed for any of the tax statuses is registered depending on the tax status of the department which the PLU belongs to. VAT/tax assignment symbol can be printed at the fixed right position near the amount on the receipt as follows: VAT1/tax1 A VAT2/tax2 B VAT3/tax3 C VAT4/tax4 D When the multiple VAT/tax is assigned to a department or a PLU, a symbol of the lowest number assigned to VAT/tax rate will be printed. For details, contact your authorized SHARP dealer.

Key operation example Print 550 (When the manual VAT 1-4 system is selected) 46 5 Auxiliary entries Percent calculations (premium or discount) Your register provides the percent calculation for the subtotal and/or each item entry depending on the programming. Percentage: 0.01 to 100.00% (Application of preset rate (if programmed) and manual rate entry are available.) Percent calculation for the subtotal Key operation example Print 4 140 570 (When a discount and 10% is programmed for the key) Percent calculation for item entries Key operation example Print 800 15 7.5 (When premium and 15% are programmed for the key) Deduction entries Your register allows you to deduct a preset amount or a certain amount manually entered, which are less than a programmed upper limit. These calculations can be after the entry of an item and/or the computation of subtotal depending on the programming. Deduction for the subtotal Key operation example Print 575 10 100 - 47 Deduction for item entries Key operation example Print 675 (When a deduction amount of 75 is programmed.) Refund entries If a refund item is the one entered into a department, enter the amount of the refund, then press the key and the corresponding department key in this order; and if an item entered into a PLU is returned, enter the corresponding PLU code, then press the and keys. Key operation example Print 250 7 13 Printing of non-add code numbers Enter a non-add code number such as a customer's code number and credit card number within a maximum of 16 digits and press the key at any point during the entry of a sale.

*Your register will print it at once. Key operation example Print Function text 1230 1500 48 6 Payment treatment Currency exchange Your register allows payment entries of foreign currency. Pressing the e key creates a subtotal in foreign currency. For an additional payment in foreign currency After an entry is completed or After the amount tendered is found smaller than the sales amount in a sales entry Preset exchange rate *Exchange rate For direct finalization e*

*Amount tendered (max. 8 digits) ' c Reentry Next registration or payment in domestic currency *Exchange rate: 0.*

000000 to 999.999999 When the amount tendered is short, the deficit is shown in domestic currency. Availability of credit and cheque tendering is depending on programming (only for preset exchange rate). If programmed, a foreign currency symbol is printed when you apply preset rate. Applying preset exchange rate Key operation example Print Currency exchange Amount tendered in foreign currency 2300 4650 e 15000 Domestic currency Exchange rate Foreign currency Domestic currency Foreign currency symbol Applying manual exchange rate Key operation example Print 2300 4650 1 .

*0190 e 10000 49 Received on account entries Amount * (max. 8 digits) r (Available cash tendering only) *Less than the programmed upper limit Print Key operation example 12345 4800 r Paid out entries Amount * (max. 8 digits) (Available cash tendering only) *Less than the programmed upper limit Print Key operation example 6789 3000 No sale (exchange) Simply press the key without any entry. The drawer will open and the printer will print "NO SALE" on the journal or the receipt. If you let your machine print a non-add code number before pressing the key, a no sale entry is achieved with a non-add code number printed. 7 Automatic sequencing key (`key) entries You can achieve a programmed transaction simply by pressing a corresponding automatic sequencing key.*

Key operation example Print (= 500) 50 8 Receipt issuance after finalization/Copy receipt If your customer wants a receipt after you have finalized a transaction with the receipt function being in the "OFF" status (no receipting), press the key. This will produce a receipt. Your register can also print a copy receipt when the receipt function is in the "ON" status. If you want to make a copy, please consult your dealer.

Pressing the key in the OP X/Z mode before registration toggles the status "ON" and "OFF". When more than 30 items are entered, the receipt will be issued in the format of summary receipt print. Printing a receipt after making the entries shown below with the receipt function being in the "OFF" status Key operation example Print 850 3 150 For receipting When the receipt function is in the "ON" status and you press the key to make a copy When the receipt function is in the "ON" status, the " COPY " symbol will be printed on the receipt. 51 CORRECTION 1 Correction of the last entry (direct void) If you make an incorrect entry relating to a department, PLU/subdepartment, percentage (and), deduction (-) or refund, you can void this entry by pressing the ? key immediately after the incorrect entry. Key operation example Print 1250 ? 2 ? 600 ? 328 28 ? 250 ? 2 Correction of the next-to-last or earlier entry (indirect void) With the ? key, you can void any incorrect department entry, PLU/subdepartment entry or item refund entry made during a transaction if you find it before finalizing the transaction (e.g. pressing the key). This function is applicable to department, PLU/subdepartment and refund entries only. Key operation example Print Correction of a department entry Correction of a PLU entry Correction of a refund entry 1310 1755 10 12 250 825 1310 ? 12 ? 250 ? 52 3 Subtotal void You can void an entire transaction.



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Once subtotal void is executed, the transaction is aborted and the register issues a receipt.

This function does not work when more than 30 items have been entered. Key operation example Print 1310 1755 10 35 Subtotal void ? 4 function Correction of incorrect entries not handled by the direct or indirect void Any errors found after the entry of a transaction has been completed or during an amount tendered entry cannot be voided. These errors must be corrected by the manager. The following steps should be taken: 1. 2.

3. If you are making the amount tendered entry, finalize the transaction. Make correct entries from the beginning. Hand the incorrect receipt to your manager for its cancellation. **OVERLAPPED CASHIER ENTRY** This function allows you to switch from one cashier to another and to interrupt the first cashier's entry. So the second cashier can do his or her entry in this mode. For actual use of this function, consult your dealer. The overlapped cashier entry is not effective while the tendering sale is going on. If any cashier is still making an entry (or has not finalized the transaction yet), the machine does not run in any mode other than REG and MGR and can print no X/Z reports. The symbol " " and the corresponding cashier code(s) are displayed at this time. Key operation example 1. Cashier 1 is assigned. Comments The entry by cashier 1 is started. (1<) 100 360 2. Cashier 2 is assigned.

2< 3 150 The entry by cashier 2 is started. (The entry by cashier 1 is interrupted.); 3. Cashier 1 is assigned. The transaction by cashier 2 is finalized. The entry by cashier 1 is restarted. 1< 100 360 The transaction by cashier 1 is finalized. 53 **OPERATOR MAINTENANCE 1** In case of power failure When power is lost, the machine retains its memory contents and all information on sales entries. When power failure is encountered in register idle state or during an entry, the machine returned to the normal state of operation after power recovery. When power failure is encountered during a printing cycle, the register prints "======" and then carries out the correct printing procedure after power recovery.

(See the sample print.) 2 In case of printer error If the printer runs out of paper, the printer will stall, "PPPPPPPPPP" will appear on the display. Key entries will not be accepted. Referring to "4. Installing and removing the paper roll" in this chapter, install a new roll paper in the proper position, then press the c key.

The printer will print the power failure symbol and resume printing. If the print head comes up, the printer stalls, "H" will appear on the very left of the display. Key entries will not be accepted. Bring back the print head to the correct position, then press the c key. The printer will print the power failure symbol and resume printing.

3 **Cautions in handling the printer and recording paper** Cautions in handling the printer If you are not going to use the register for an extended period of time, pull the print head release lever toward you so that the print head is set apart from the plate. (head-up position) Avoid the environments of dusty and humid place, direct sunlight and iron powder(a permanent magnet and electromagnet are use in this machine.) Use the print head release lever only when necessary. Never pull the paper when it is in contact with the print head. First release the head with the print head release lever, and then remove the paper. Never touch the surface of the print head. Never touch around the print head and the motor during printing or before they have had sufficient time to cool. Cautions in handling the recording paper (thermal paper) Use only the paper specified by SHARP. Do not unpack the thermal paper until you are ready to use it. Avoid heat.

The paper will color at around 70C. Avoid dusty and humid places for storage. Avoid direct sunlight. The printed text on the paper can discolor under the conditions of exposure of high humidity and temperature, exposure to the direct sunlight, contact with glue, thinner or a freshly copied blueprint, and heat caused by friction from scratching or other such means. Be very careful when handling the thermal paper. If you want to keep a permanent record, copy the printed text with a photocopier. 54 4 **Installing and removing the paper roll** Be sure to use paper rolls specified by SHARP. The use of any other paper rolls than specified could cause paper jamming, resulting in register malfunction. Paper specification Paper width: 57.5 0.

5 mm Max. outside diameter: 70 mm Quality: Thermal paper Be sure to set paper roll(s) prior to using your machine, otherwise it may cause a malfunction. Install the paper roll in the printer. Be careful then to set the roll and cut the paper end correctly. If the top end of the paper roll is fixed with paste or tape, the paper may lose its color development ability in the pasted or taped area due to the deterioration of the heat-sensitive color development component of the paper surface.

This may result in nothing appearing at this location when printing is performed. Therefore, when setting a new paper roll in the machine, be sure to cut off approximately one revolution (approx. 25 cm long). (How to set the paper roll) (How to cut the paper end) To the printer To the printer Incorrect Correct Correct Incorrect Installing the paper roll Precaution: Be very careful for the manual cutter mounted on the printer cover when removing and replacing the cover, so as not to hurt yourself. When you install a paper roll for the first time, the printer is in printer error status because no paper roll has not installed yet.

So, after installing a paper roll correctly, clear the error status by pressing c key. 1. Turn the mode switch to the "REG" position with the AC cord connected. 2. Remove the printer cover. 3. Check that the print head release lever is in its printing position. 4. Set the paper correctly as illustrated above in the paper bed. 5.

Insert the end of the paper into the printer, while pressing the key, until it is caught by the printer auto-feed and comes out of the printer at the top. 6. When not using the take-up spool (using as receipt paper) : Cut off the excess paper that comes out of the printer using the edge of the inner cover, and replace the printer cover. When using the take-up spool (using as journal paper): Insert the end of the paper into the slit in the spool. (Press the key to feed more paper if required.) Wind the paper two or three turns around the spool shaft. Set the spool on the bearing, and press the key to take up excess slack in the paper.

Replace the printer cover. You can wind the roll paper in OP X/Z, X1/X2, and X2/Z2 modes even if you programmed so that the printer is used for issuance of receipts. This may be convenient to wind reports.

In this case, set the roll paper to the take-up spool.



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