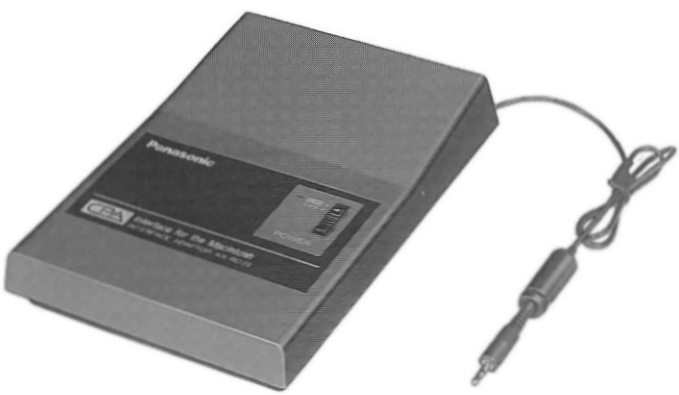
Panasonic

Operating Instructions

Interface Adaptor

MODEL NO. **KX-RC22**



Please read before using.

Thank you for purchasing the Panasonic Interface Adaptor KX-RC22.

FOR USERS IN UNITED STATES ONLY

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference to radio or television reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the booklet "Something About Interference" available (available from FCC local regional offices) helpful.

FCC Warning: To assure continued FCC compliance, the user must use only shielded interfacing cables when connecting to a computer or peripheral. Also, any unauthorized changes or modifications to the equipment would void the users authority to operate.

Installation Procedure

For installation on hard disk:

1. Lock disk to protect it from changes or erasure.
2. Insert disk.
3. Drag the *CPA Link* icon to the hard disk.

The serial number of the unit may be found on the upper label located on the back side.
Write the number below and keep this book, along with the proof of purchase, to serve as a permanent record of the purchase or for future reference.

MODEL NO. **KX-RC22**
SERIAL NO. _____
NAME OF DEALER _____
ADDRESS OF DEALER _____
DATE OF PURCHASE _____

- Quicken is a registered trademark of Intuit.
- Macintosh is a registered trademark of Apple Computer, Inc.

Enjoy the Convenient Functions

The KX-RC22 will allow the user to transmit check transactions from a CPA to a Macintosh in a QIF file.

Receive/Send ..... **p. 18/21**
Will allow the user to make a back-up copy of the CPA data on a disk. Will allow the user to transfer the data from the CPA to a Macintosh, then store them onto a disk.

View on screen .....**p. 24**
Will allow the user to view CPA CHECK, CARD, CASH, PAYEE LIST, CATEGORIE, and TELEPHONE or ADDRESS data on the screen.

Merge .....**p. 29**
Will allow the user to merge two CPA CHECK data files into one file.

Create QIF File .....**p. 34**
Will allow the user to import CPA CHECK, CARD, and CASH data into Quicken.
Will allow the user to convert the CPA data to Quicken data (QIF file), then import the file into Quicken. Where the money transactions can be managed by Quicken.

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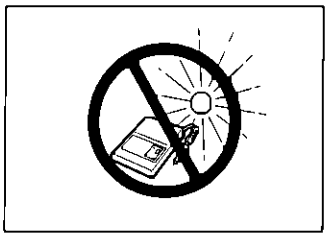
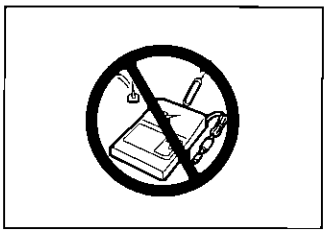
Precautions

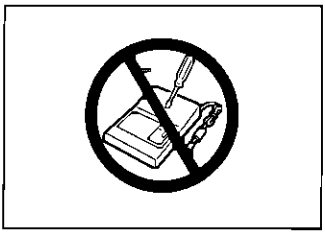


Do not place the interface adaptor where it is exposed to direct sunlight or heat.

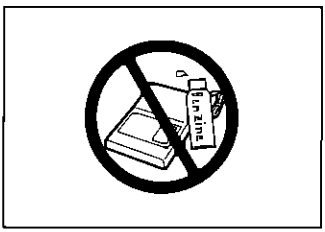
Do not place the interface adaptor on areas with intense vibration.



Do not allow any foreign matter to enter the interior of the interface adaptor.



To prevent electric shock, do not remove any screws.



Use only a soft, dry cloth to clean the interface adaptor. Water or cleaning fluids may damage the case or the electronic circuitry.

Chapter 1

Before Using

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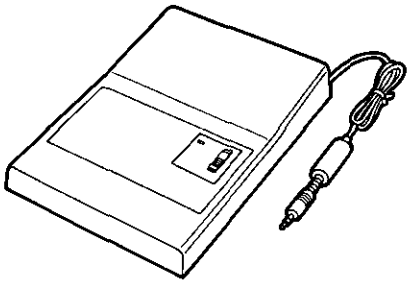
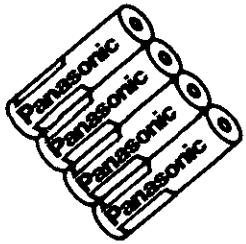
Unpacking

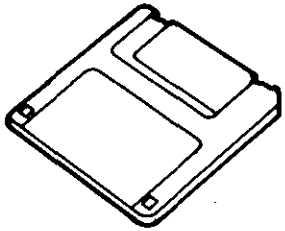
After unpacking the interface adaptor, make sure that the contents shown below are not missing or damaged. Report damages or shortages to the store from which the unit was purchased.



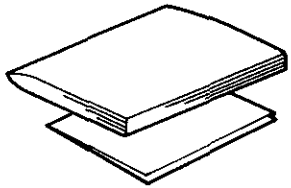
Interface adaptor (KX-RC22) . . one



"AA" size battery . . . . . four



Interface application software disk . . . . . one



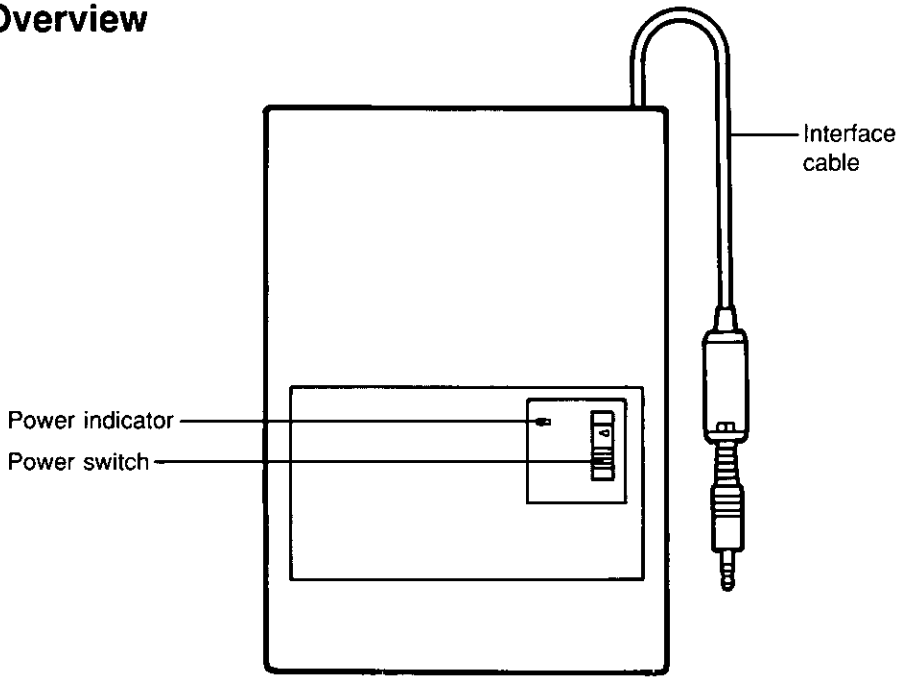
Operating instructions . . . . . one
Owner information card . . . one

Handling disks

- Never touch the magnetic material inside the cartridge.
- Never expose the disk to magnetism (found near telephones, loud speakers, and common magnets).
- Never carry the unit with the disk installed.

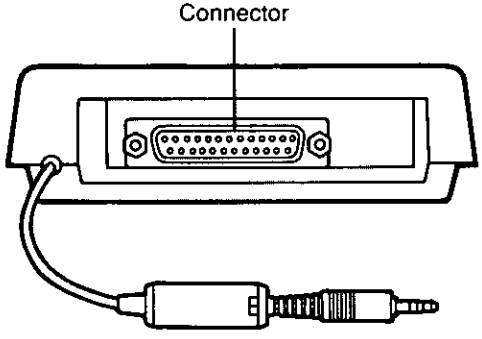
Part Names

Overview



Note: When the battery power is low, the power indicator will blink (see page 42).

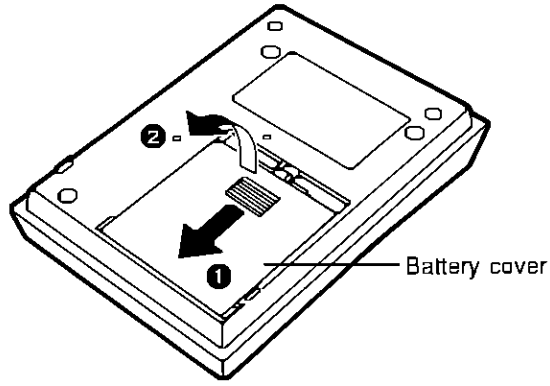
Rearview



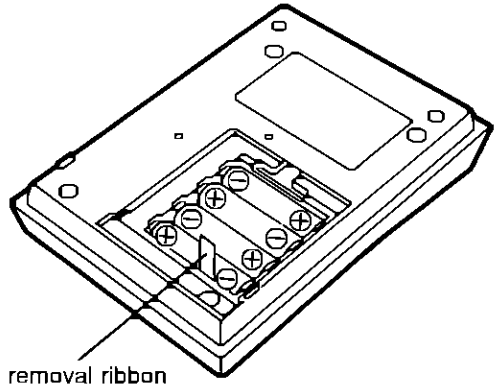
Installing the Batteries

1. Turn off the adaptor.

2. Remove the battery cover by pressing on the cover and sliding it.



3. Install the batteries with the battery removal ribbon underneath them, using correct polarity (+, −).



4. Replace the battery cover with the ribbon inside.

Installing Interface Application Software Disk

The interface application software disk can only be used in Macintosh.
The system requirements are:

- System 6 or later
- 1 or more MB RAM

Before using the bundled interface application software disk, it is recommended that you make a back-up copy and store the original in a safe place.

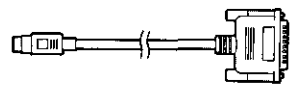
1. Turn on the Macintosh.
2. Lock disk to protect it from changes or erasure.
3. Insert disk.
4. Drag the *CPA Link* icon to the hard disk.
5. Remove the interface application software disk and store it in a safe place.

Connecting CPA to Macintosh

KX-RC22 is an interface adaptor for data transfer with Macintosh.

A Macintosh to Modem cable **(serial cable)** must be purchased before connecting. The following cable is needed:

Macintosh
8P Mini Din
(male)



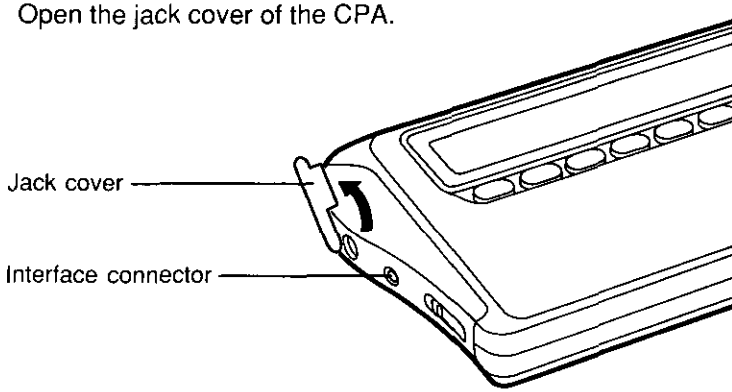
Interface adaptor
25P DB-25
(male)

Note: **For pin configuration, refer to Modem or Printer port's specification of the Macintosh.**

1. Turn off the Macintosh, the interface adaptor, and then the CPA.

Note: When the CPA is connected to the Macintosh, turn off all the power switches otherwise the electronic circuit may become damaged, and the data or the contents of the memory may change.

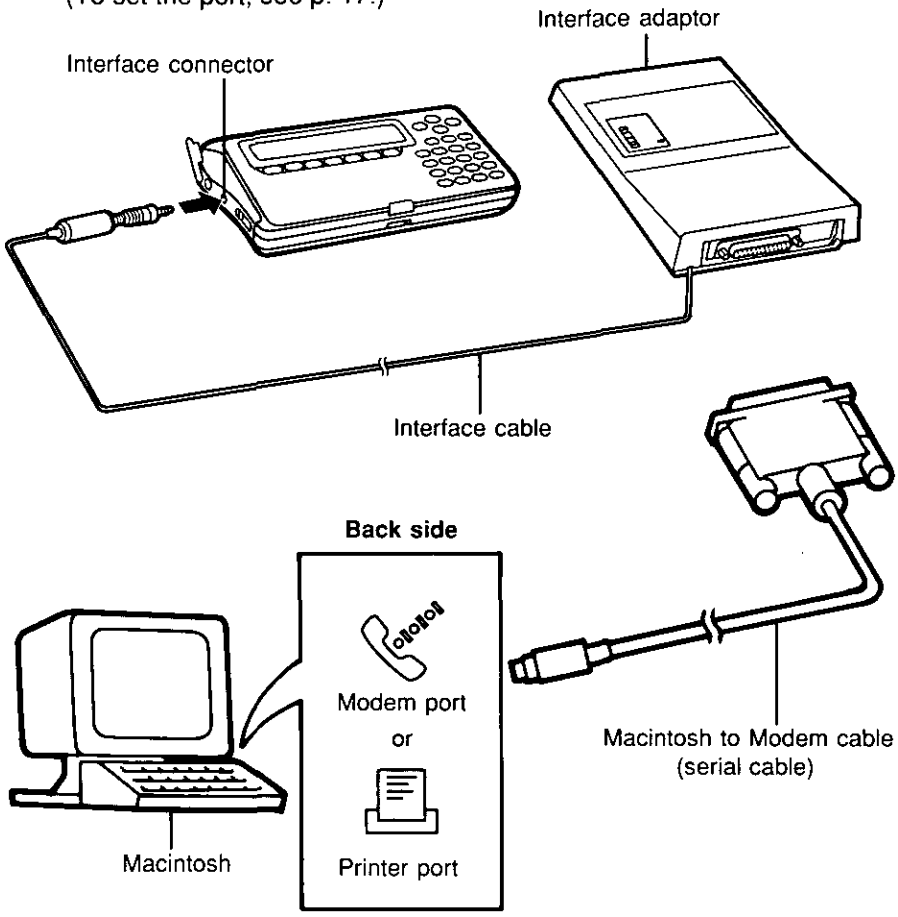
2. Open the jack cover of the CPA.



Note: When an interface cable is not plugged into the jack, insert the jack cover. Dust or dirt particles may get into it or static electricity may occur around it.

3. Plug the interface cable of the interface adaptor into the interface connector of the CPA. Be sure to plug the cable in securely.

4. Connect a Macintosh to Modem cable **(serial cable)** to the interface adaptor and to Modem port or Printer port of the Macintosh.
(To set the port, see p. 17.)



5. Turn on the Macintosh, the interface adaptor, and then the CPA. When turning it off, follow the above procedure in reverse order.

Chapter 2

Operation

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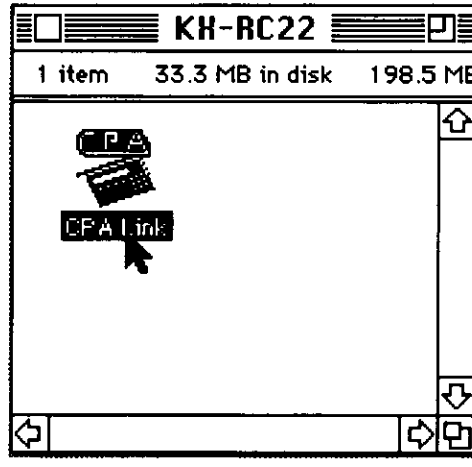
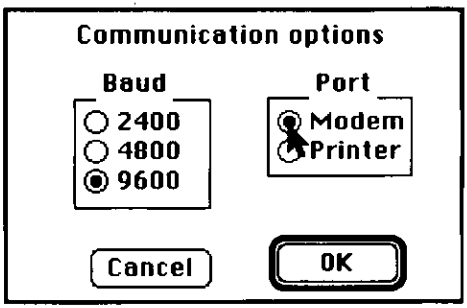
Running the Application Software

After the interface application software-CPA Link disk has been installed onto the hard disk according to the installation procedure, run the application software by following the next step.

	Operation	Display/Description
1	Double click the *CPA Link* icon.	

Setting Communication Parameter

Before starting, confirm that the baud rate is the same in the CPA and Macintosh (baud rate 9600 is factory set for communication options).

	Operation	Display/Description
1	Select "Port Settings" in the Communications menu.	
2	Set the parameters. Example: Baud rate: 9600 Port: Modem	
3	Click [OK].	

- When you connect the Modem cable with the Printer port, select the "Printer".
- If a serial printer or Appletalk printer is using the port, the CPA will warn, "Serial port was in use by another application". Select Chooser in the Apple menu and turn off Appletalk. If another application is interfering, then it must be turned off.

- The other parameters are automatically set as you see below:
  Parity bit: no parity
  Stop bit: 1 bit
  Data length: 8 bits

- **To set the baud rate of the CPA, see the operating instructions for the CPA unit.**

Receiving Data from CPA to Macintosh

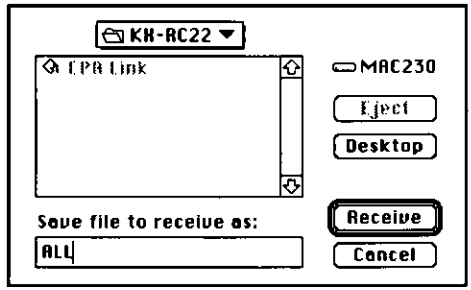
Example: Below are the procedures for transferring all data from a KX-RC100 CPA to a Macintosh and storing it in the file name "ALL".

Macintosh
(receiver)

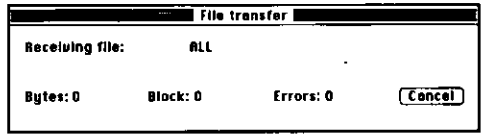
CPA
(sender)

	Operation	Display/Description
1	**On CPA:** CODE → L	LINK: SEND RECEIVE PRESS DONE KEY TO EXIT
2	ENTER	ALL CHECK CARD/CASH PHONE
3	To select "ALL" (if necessary) press ◄ or ►.	ALL CHECK CARD/CASH PHONE
4	**On the Macintosh:** Select "Receive from CPA" in the File menu.	File Receive from CPA... Send to CPA... Open... Save... Merge Checks... Save as QIF... Quit ⌘Q

5 Enter the file name (up to 31 letters/numbers). Example: ALL



6 Click [Receive].



- The Macintosh is ready to receive the data.

7 **On CPA:**
To send data press [ENTER].

- Press [ENTER] within 10 error counts or a link error will occur.

```
SENDING . . .
PRESS DONE KEY TO EXIT
```

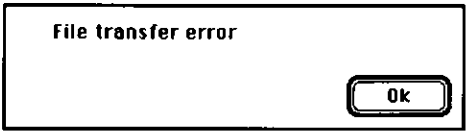
On the Macintosh:
When data receiving has finished, the end of link display will appear.

- To stop receiving data, click [Cancel] on the Macintosh.

The receive file will not be created. On the CPA the display will show:

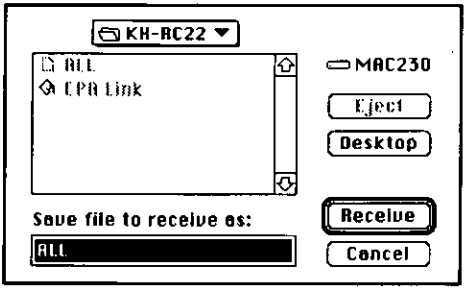
```
LINK ERROR!
```

- When an error occurs, the display will show:



- If the same file name already exists, the display will show:

If "Cancel" is selected, the display will show again:



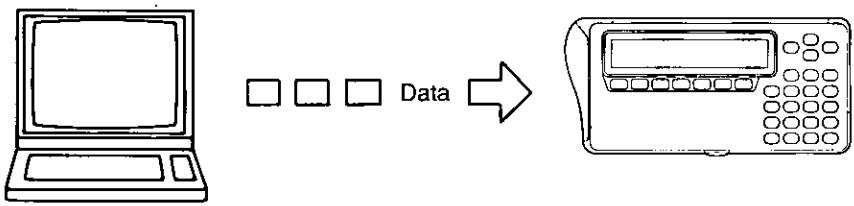
If "Replace" is selected, the file will be overwritten.

- Link error will also occur in the following cases:
  1. Baud rate is different between the Macintosh and the CPA.
  2. Incorrect Macintosh to Modem cable (serial cable) or the cable is not installed correctly.
  3. The interface adaptor is not turned on.
  4. The incorrect Communication port was selected in the Port Settings.

Sending Data from Macintosh to CPA

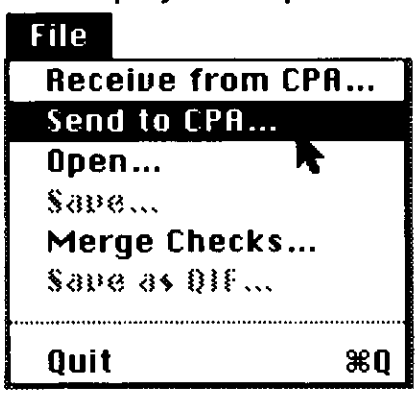
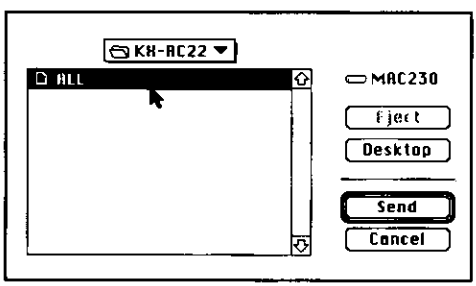
Note: **When sending data, the existing data of the CPA will be deleted. QIF file cannot be sent from the Macintosh to the CPA.**

Example: Below are the procedures for transferring the file name "ALL" from a Macintosh to a KX-RC100 CPA.



Macintosh
(sender)

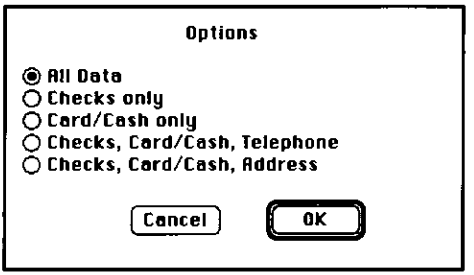
CPA
(receiver)

	Operation	Display/Description
1	**On the Macintosh:** Select "Send to CPA" in the File menu.	
2	Select the file name. Example: ALL	

- File names are sorted in alphabetical order.

3 Click [Send].

4 Select the type to be extracted.
Example: ALL Data



- This display will show data type in the file.
- The KX-RC22 allows the transfer of telephone and address data. When sending telephone data to address data, select "Checks, Card/Cash, Address". When sending address data to telephone data, select "Checks, Card/Cash, Telephone".

5 **On CPA:**
(CODE) → (L)

```
LINK: SEND RECEIVE
PRESS DONE KEY TO EXIT
```

6 To select "RECEIVE" press (▶).

```
LINK: SEND RECEIVE
PRESS DONE KEY TO EXIT
```

7 (ENTER)

```
EXISTING DATA SHOULD BE
DELETED    CONTINUE N/Y ?
```

8 To select "Y" press (▶) or (Y).

```
EXISTING DATA SHOULD BE
DELETED    CONTINUE N/Y ?
```

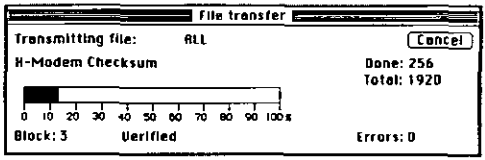
9 **ENTER**

```
RECEIVING . . .
PRESS DONE TO EXIT
```

- The CPA will be ready to receive the data.

10 **On the Macintosh:**
Click OK.

- Click OK within 10 error counts or a link error will occur.



When data sending has finished this display appears.

- To stop sending data, click Cancel on the Macintosh.

On the CPA, the display will show:

```
LINK ERROR!
```

When an error occurs, the data stored in the CPA will be deleted.

- When an error occurs, the display will show:

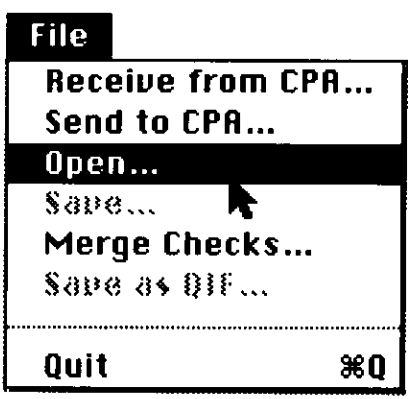
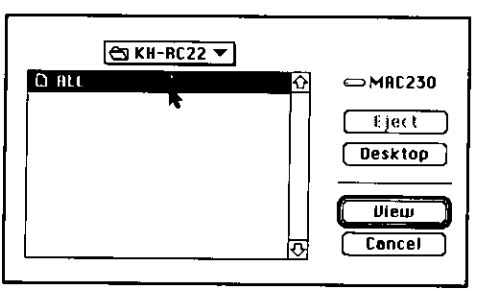
- Link error will also occur in the following cases:
  1. Baud rate is different between the Macintosh and the CPA.
  2. Incorrect Macintosh to Modem cable (serial cable) or the cable is not installed correctly.
  3. The interface adaptor is not turned on.
  4. The incorrect Communication port was selected in the Port Settings.

Viewing CPA Data on the Screen

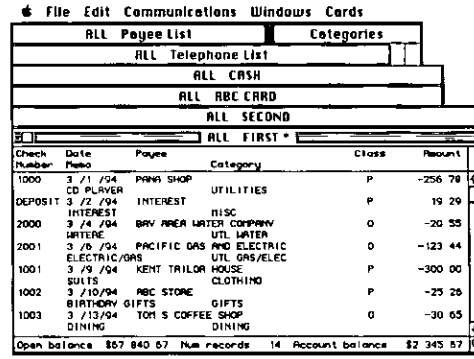
This function will allow the confirmation of the data received from the CPA and CHECK data after merging. If necessary, the CHECK, CARD, and CASH records can be deleted.

Example: To view the data of the SECOND bank in All file:
- Delete the records CHECK# 3 and 4
- Correct the balance of SECOND bank from $2419.00 to $2238.00
- Save as file name "NEW"

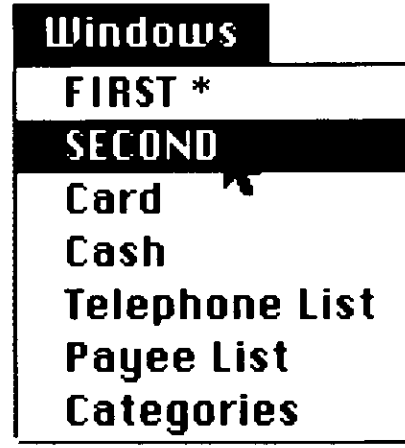
View CPA Data

	Operation	Display/Description
1	Select "Open" in the File menu.	
2	Select the file name. Example: ALL	

3 Click View

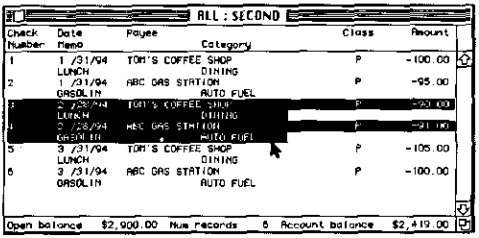
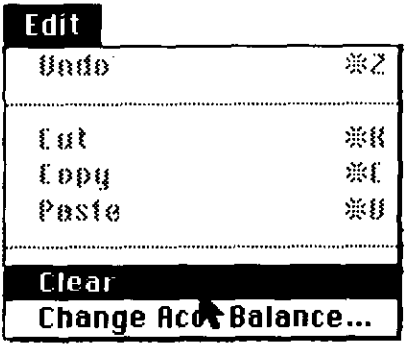
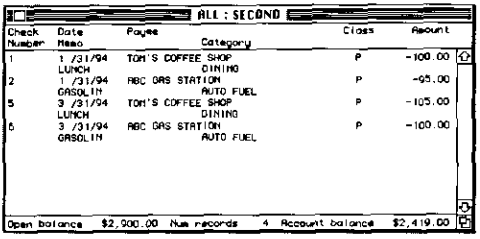


4 Select an item in the Windows menu
Example SECOND

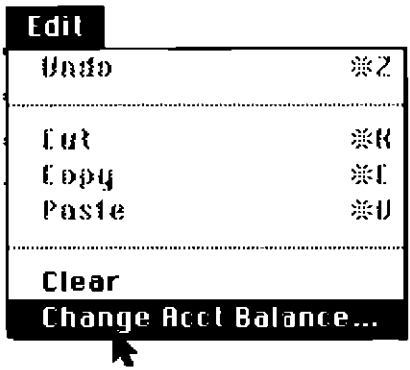


- The "*" character indicates the primary account
- When you view the card data, select "Card" in the Windows If other card names are entered, select your desired card name in the Cards menu

Delete CPA Data

Operation	Display/Description
1 Select the records to delete. Example: CHECK# 3 and 4	
2 Select "Clear" in the Edit menu.	
	

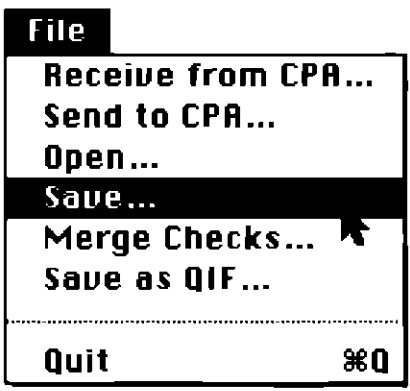
3 Select "Change Acct Balance" in the edit menu.



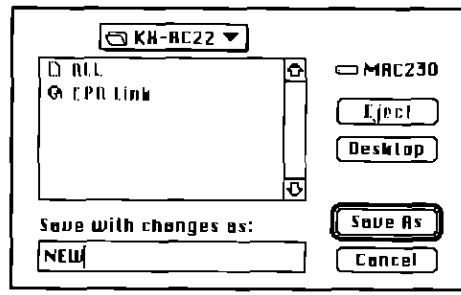
4 Correct balance.
Example: $2238.00

5 Click OK.

6 Select "Save" in the File menu.



7 Enter the file name (up to 31 letters/numbers). Example: NEW



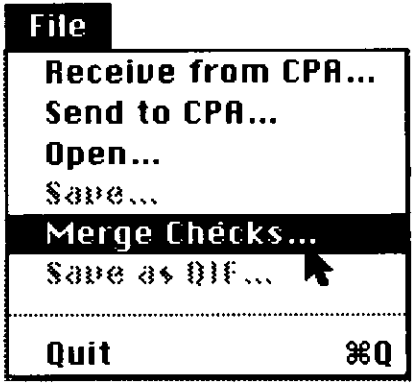
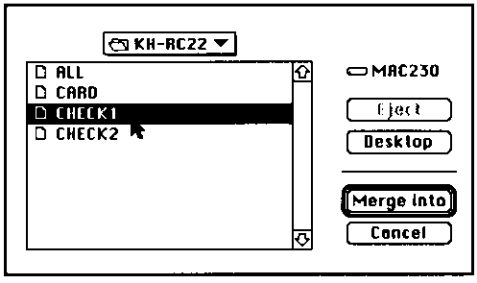
8 Click [Save As].

Merging CPA Data Files

The merge function combines the check data from two files by merging the transaction data from the "Merge from" file into the "Merge into" file. An output file will be created which includes all transactions and whose balance is calculated by adjusting the balance from the "Merge into" file for the transactions from the "Merge from" file. The original contents of the "Merge into" file and the "Merge from" file will remain unchanged.

Note: The account names in both files must be the same.

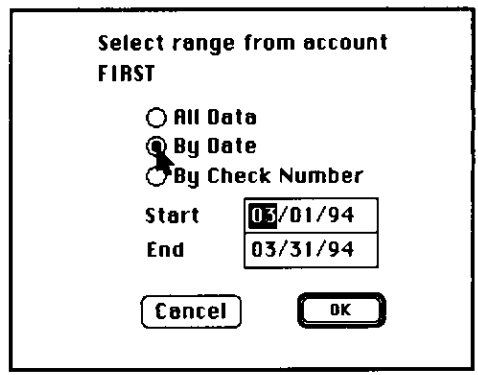
Example: Below is the procedure for merging the transaction data from "CHECK2" into "CHECK1" and creating the output file "MERGE". "CHECK1" contains data for check date 03/01/94 through 03/31/94 and "CHECK2" contains the data for check date 04/01/94 through 04/30/94.

	Operation	Display/Description
1	Select "Merge Checks" in the File menu.	
2	Select "Merge into" file. Example: CHECK1	
3	Click Merge into.	

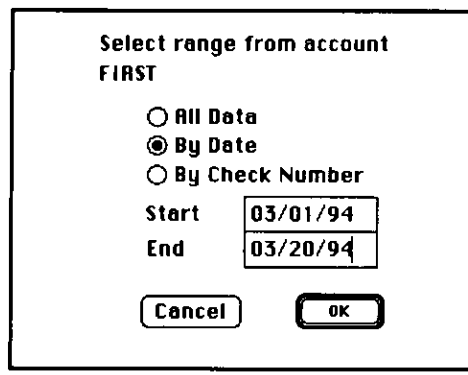
4 Select the account
Example FIRST

5 Click OK

6 Select range
Example By Date

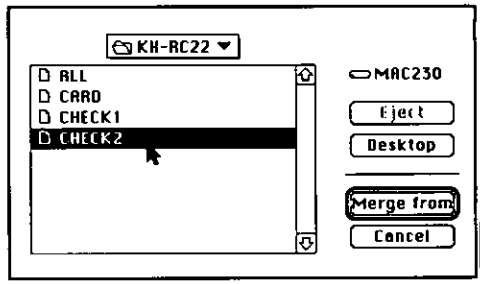


7 Enter start and end date of "Merge into" file
Example Start 03/01/94
End 03/20/94



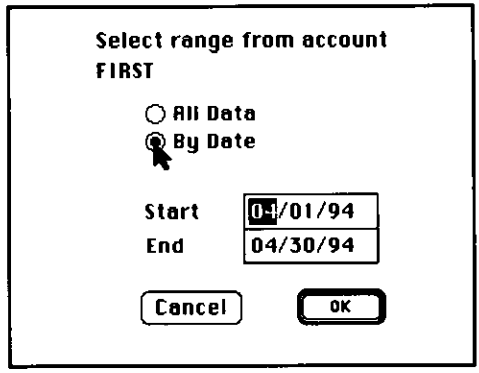
8 Click OK

9 Select "Merge from" file.
Example: CHECK2

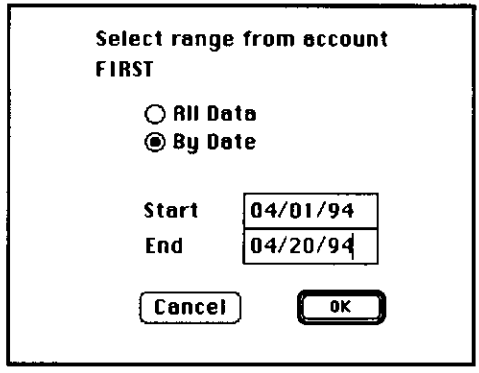


10 Click [Merge from].

11 Select range.
Example: By Date

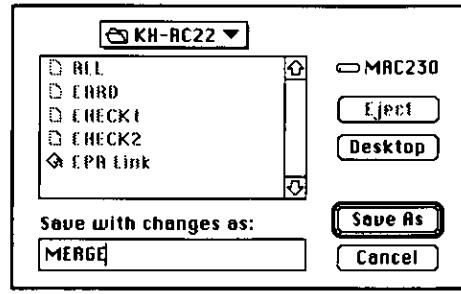


12 Enter start and end date of "Merge from" file.
Example: Start 04/01/94
End 04/20/94



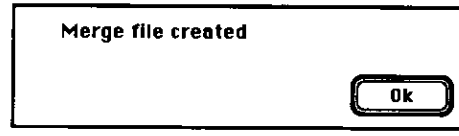
13 Click [OK].

14 Enter an output file name (up to 31 letters/numbers). Example: MERGE

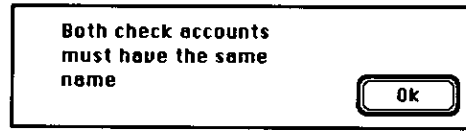


15 Click [Save As].

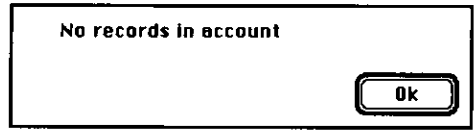
When merging has finished this display appears.



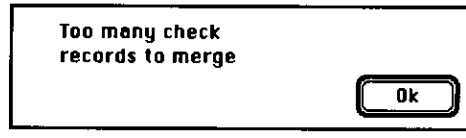
- When the accounts are not the same, the display will show:



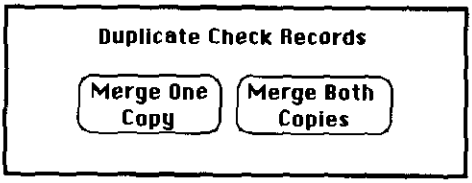
- When there is no data to be extracted, the display will show:



- When the number of merged records exceeds 2,000, the display will show:



- When there is the same check number >0, the same record with check number 0, or the same deposit record both in the "Merge into" file and "Merge from" file, the display will show:



Merge One Copy: Makes only one copy of each duplicate record.
Merge Both Copies: Makes two copies.

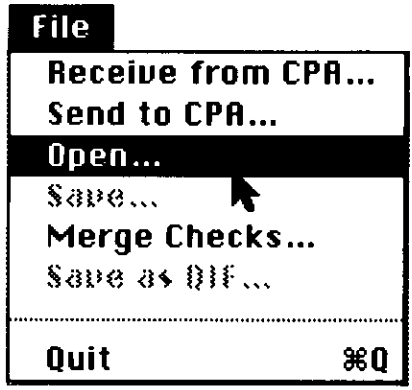
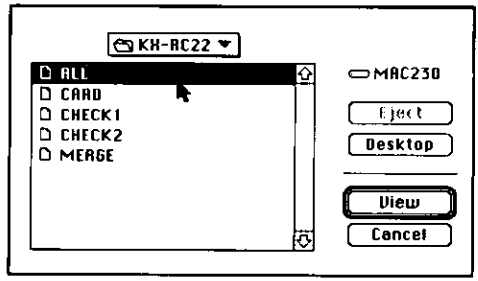
- The records will be stored in the order of date.

- If a data range of the "Merge into" file is specified, the balance will not be calculated.
- All other data from the "Merge into" file (paylist, card, cash, telephone or address) will be copied to the new file.

Creating QIF File

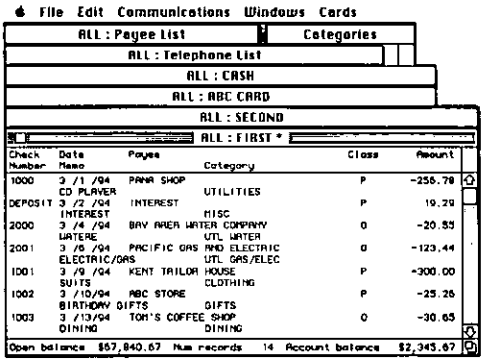
CPA CHECK, CARD and CASH data can be imported into Quicken.
CPA data can be converted to Quicken data (QIF File), then imported into Quicken.
The money transactions can be managed by Quicken.

Example: To convert the ALL to Quicken data as file name "QKN. QIF":
The bank account is "FIRST",
ALL includes "FIRST" and "SECOND" accounts,
and the data ranges from 03/01/94 to 03/31/94.

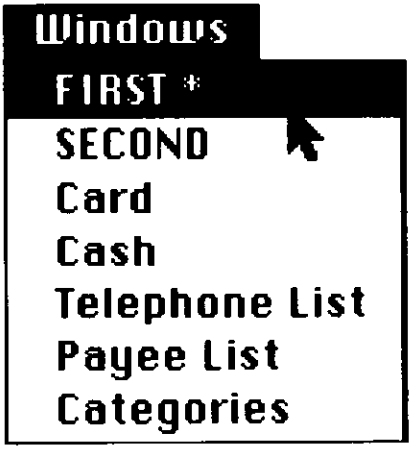
	Operation	Display/Description
1	Select "Open" in the File menu.	
2	Select the file name Example: ALL	

- File names are sorted in alphabetical order.

3 Click View.

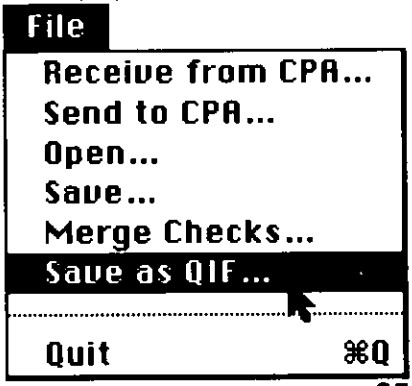


4 Select windows for data to be converted (account 1, account 2, card, cash).
Example: "FIRST"

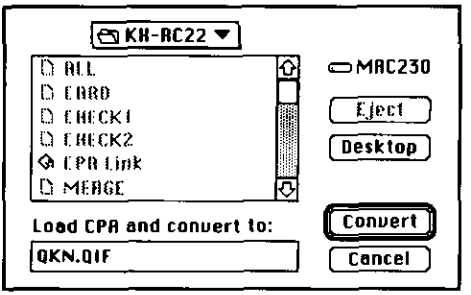


5 Select "Save as QIF" in the File menu.

- When the window of Telephone List, Address List, Payee List and Categories is selected, "Save as QIF" will not be displayed.

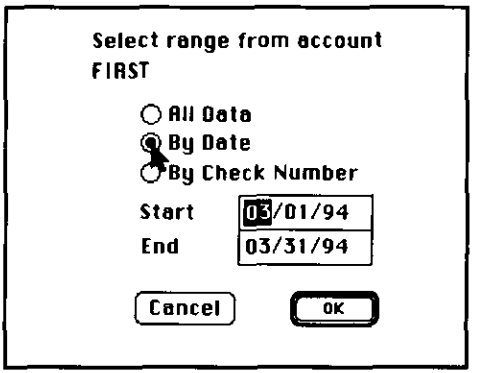


6 Enter the converting file name
Example: QKN. QIF

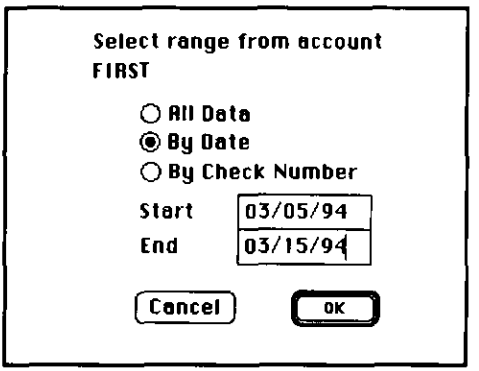


7 Click [Convert].

8 Select range from account
Example: By Date

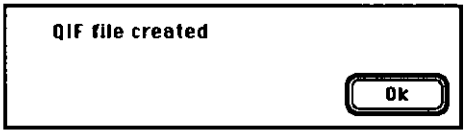


9 Enter start and end date of "Convert" file.
Example:
Start 03/05/94
End 03/15/94



10 Click [OK].

When creating QIF file has finished this display will appear.



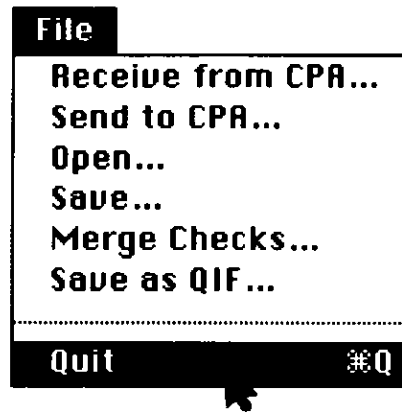
- If the input file is an invalid data file or has no data to be extracted, the display will show "Cannot create file".

Note:

- **CLASS "B", "P", and "O" will be converted to "Business", "Personal", and "Others", respectively.**
- **CPA assumes that the version of Quicken is 3.0.**

Quit

This function will terminate the CPA interface application.

Operation	Display/Description
1 Select "Quit" from the File menu.	

- If changes have not been saved when "Receive from CPA", "Open", "Merge Checks", or "Quit" is selected in the File menu, the display will show "Save file with changes?".

Chapter 3

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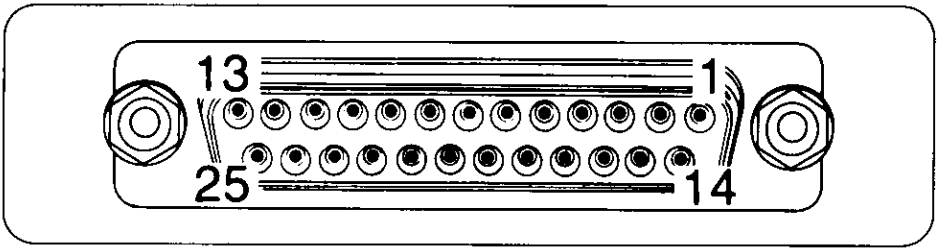
RS-232C Serial Interface

Caution

Cable: Use a shielded cable 1.8 meters (6 ft) or less in length.

RS-232C connector pin assignment



Pin configuration

Pin No.	Signal	Direction
1	SG	
2	TXD	OUTPUT
3	RXD	INPUT
7	SG	

Signal descriptions

SG...Signal Ground

Connected to the signal ground of the adaptor's circuit board.

RXD...Receive Data

Inputs serial data form the computer. SPACE (+ side) indicates "0" data; MARK (– side) indicates "1" data.

TXD...Transmit Data

Outputs serial data to the computer. SPACE indicates "0" data; MARK indicates "1" data.

Data Input:

Parity bit:	no parity
Stop bit:	1 bit
Data length:	8 bits

Data Input Codes:

Character:	ASCII
Graphics:	8 bit

Transmission Speed (Baud Rate): 2400, 4800, or 9600

Replacing the Batteries

Weak battery: If the battery power is low, the "**Power indicator**" light will flash. Replace with new batteries.

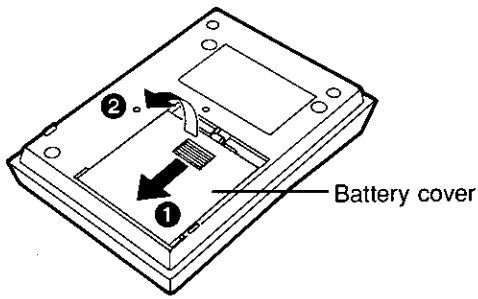
Battery Precautions:

If improperly used, the batteries may leak and cause corrosion. Therefore, observe the following:

- Do not install the batteries using incorrect polarities.
- Do not mix bateries (old and new).
- Do not mix battery types (carbon and alkaline).
- Remove all the batteries when not using the unit.
- Do not charge, short-circuit, disassemble, heat, or dispose of in fire.

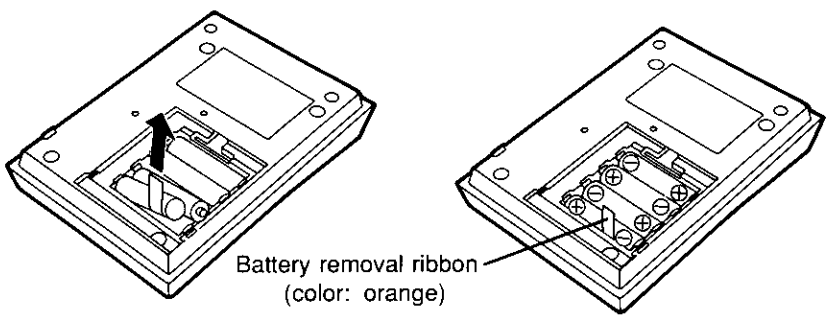
1. Turn off the adaptor.

2. Remove the battery cover by pressing on the cover and sliding it.



3. Replace the batteries with new ones using the correct polarity (+, −).

Removing batteries **Installing batteries**



4. Replace the battery cover with the ribbon inside.

Troubleshooting Guide

If trouble occurs, check the following points before returning the interface adaptor for service.

Trouble	Cause	Procedure
The power switch is on, but the power indicator is not lit.	The batteries are not installed or they are installed incorrectly.	Install the batteries correctly.
	The batteries are dead.	Replace the batteries with new ones.
CPA does not transfer with the Macintosh.	The interface adaptor, the CPA, or the Macintosh is not turned on.	Turn on the interface adaptor, the CPA, and the Macintosh.
	The cable of the interface adaptor or the Macintosh to Modem cable is not connected properly.	Properly connect the cable of the interface adaptor and Macintosh to the Modem cable.

Specifications

Power Source	: 4 "AA" size batteries DC 6V
Interface	: RS-232C
Operating Temperature	: 5°C (41°F)—35°C (95°F)
Operating Humidity	: 20—80% RH
Storage Temperature	: −20°C (−4°F)—60°C (140°F)
Dimensions	: 115 (W)×173 (D)×35 (H) mm {4 17/32" (W)×6 13/16" (D)×1 3/8" (H)}
Mass {Weight}	: 0.225 kg (0.5 lb)
Battery Life	: About one hundred days When sending data 4 times a day at 20°C (68°F)

List of Display Messages

Message	Description
A file system error has occurred	A file system error has occurred.
Both check accounts must have the same name	The check accounts do not have the same name.
Cannot create file	Creating file was unsuccessful or the disk is full.
Cannot save file	Saving file was unsuccessful.
Duplicate check records	Duplicate check records exist.
End check # is less than start check #	End check # is less than start check #.
End date is before start date	End date is before start date.
End of Link	Transmission or reception is done.
File transfer error	An error has occurred while sending or receiving data. Please refer to page 20.
Merge file created	File merging was successful.
No records in account	Check record does not exist in account.
Not enough memory to run CPA Link	Not enough memory to run CPA Link.
QIF file created	Creating QIF file was successful.
Replace existing "file name"?	The same file name already exists.
Save file with changes?	The file with changes have not been saved.
Serial port is in use by another application.	A serial printer or Appletalk printer is using the port.
The disk is locked	Write protect tab is up.
Too many check records to merge . .	The number of merged records exceeds 2,000.
Unable to view file	File is corrupt or wrong format.

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Servicenter Directory

PRODUCT INFORMATION - OPERATION ASSISTANCE - LITERATURE REQUESTS - DEALER LOCATIONS

DIAL TOLL FREE: 1-800-CPA-7033 (1-800-272-7033)
Customer Service Center 2F-3, One Panasonic Way, Secaucus, NJ 07094 (Headquarters)
201-348-9090 (9:00am–8:00pm Monday–Friday, EST)

SERVICE INQUIRIES

Regional Customer Care Department

NORTHEAST
2221 Cabot Boulevard West
Suite A
Langhorne, PA 19047
215-741-0676
Covers:
CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, DC, WV, Eastern OH

MIDWEST
1703 North Randall Road
Elgin, IL 60123
708-468-5530
Covers:
IL, IN, IA, KS, KY, MI, MN, MO, NE, ND, SD, WI, Western OH

WESTERN
6550 Katella Avenue
Cypress, CA 90630
714-373-7440
Covers:
AK, AZ, CA, CO, ID, MT, NV, NM, OR, UT, WA, WY, HI

SOUTHERN
1854 Shackleford Court
Suite 4105
Norcross, GA 30093
404-717-6628
Covers:
AL, AR, FL, GA, LA, MS, NC, OK, SC, TN, TX

PRODUCT SERVICE

Factory Servicenters

TENNESSEE
919-8th Avenue South
Nashville, TN 37203
615-244-4434

AUTHORIZED SERVICENTERS - PARTS DISTRIBUTOR LOCATIONS

To locate an independent authorized servicenter or parts distributor in your area, within the USA dial toll free **1-800-545-2672,** 24 hours a day, 7 days a week.

ACCESSORY PURCHASES

1-800-332-5368 (Consumer Orders Only)
Matsushita Services Company Box 01, 545 Tollgate Road Suite C, Elgin, IL 60123
(8:00am–7:30pm Monday–Thursday; 8:00am–5:00pm Friday; 9:00am–12:30pm Saturday; CST)
(Visa, Mastercard, Discover card, Check or Money Order)

To ship the product:
Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-paid letter, detailing the complaint, to the outside of the carton. *DO NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.*

PANASONIC COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA

One Panasonic Way, Secaucus, New Jersey 07094

PANASONIC COMPANY (WEST) OF AMERICA, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA

6550 Katella Avenue, Cypress, CA 90630

PANASONIC CHECK PRINTING ACCOUNTANT INTERFACE ADAPTOR LIMITED WARRANTY

Panasonic Company or Panasonic Company (West) of America (collectively referred to as "Panasonic") will repair this product with new or rebuilt parts, free of charge, in the U.S.A. from the date of the original purchase in the event of a defect in materials or workmanship as follows:

Interface Adaptor—for One (1) Year.

Batteries (When applicable)—New rechargeable batteries in exchange for defective rechargeable batteries—For ten (10) days.
Non-rechargeable batteries are not warranted.

Diskettes—This limited warranty applies only to the medium on which the software program is recorded, not the software program itself. Except for this limited warranty on the medium, Panasonic makes no warranties with respect to the software program, its medium, the user manual or the results, use or performance thereof.

If, as a result of a defect in materials or workmanship, a failure occurs in the medium on which the software program is recorded, and the User returns it postage prepaid, adequately insured, within ten (10) days from the date of purchase by the User, accompanied by proof of purchase and an explanation of the suspected defect, Panasonic will replace the medium free of charge.

Carry-in or Mail-in service in the continental U.S.A. can be obtained during the warranty period by contacting a Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory or call toll free 1-800-545-2672 locate an authorized MSC Servicenter.

This Warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use and does not cover the print ribbon or damage which occurs in shipment or failures which are caused by products not supplied by Panasonic or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, interfacing, set-up, adjustments, improper maintenance, line power surge, introduction of sand, dust, humidity and liquids, modification, or commercial use of the product, such as hotel, office or rental use of the product, or service by anyone other than an MSC Factory Servicenter or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above. PANASONIC SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF GOODWILL, PROFITS OR REVENUE, LOSS OF USE OF THIS PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF SUBSTITUTE EQUIPMENT, DOWNTIME COSTS, OR CLAIMS OF ANY PARTY DEALING WITH BUYER FOR SUCH DAMAGES, RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY OR CONTRACT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, ARE LIMITED TO THE APPLICABLE PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damage, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Service Center at the company address indicated above.

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