HATTORI SEIKO CO., LTD. TOKYO, JAPAN

SEIKO RC-4000/4400 **INSTRUCTION MANUAL**

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Preface

You have purchased one of the most advanced technological products available anywhere today. This manual is designed so that you can derive maximum use and pleasure from the SEIKO RC-4000 Series. Please follow the instructions carefully and enjoy this innovative product for years to come.

Introduction to the RC-4000 Series

The SEIKO RC-4000 Series is a walking databank that stores a wide variety of your data and also controls your schedule, in addition to the normal watch function. The data categories are Memo Data. Schedule Alarm and Weekly Alarm. In the Memo Mode, you can input any kind of data and they may be recalled individually. In the Schedule and Weekly Alarm Modes. you will receive both a beep sound and a message - up to 12 characters - to remind you of vour schedule.

Features

- * The SEIKO RC-4000 Series stores 80 separate pieces of information of 24 characters each (1920 characters at total). *2 types of unit model, the wrist type
- RC-4000 and the pocket type RC-4400 are available.
- * Data can be input on the RC-4000/4400 itself.



RC-4400

12-06 MON

T. Lie of contents

* Using an optional wrist adaptor RC-4300, data can be transferred between the two units of RC-4000/4400.



* Data can be input by means of a personal computer to the SEIKO RC-4000/4400 using a wrist plug and connecting cable.

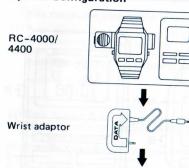


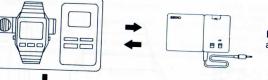
* Using an optional bi-directional adaptor RC-4200, data also can be transferred from the SEIKO RC-4000/4400 to a personal computer.

System Configuration

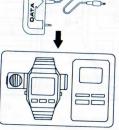
RC-4000/

4400











Personal computer

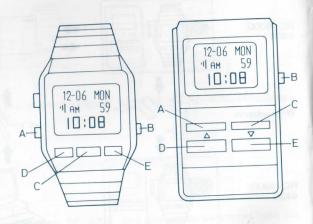
Connecting cable

Time Display Mode

In the Time Display Mode, the month, date, day, hours, minutes, seconds, alarm on/ off and AM/PM symbol marks are all shown.

When button A is pressed the display reverts to the Time Display Mode from whatever its current mode.

* Hour and minutes are constantly displayed, even in the Data Display Mode.



1. How to set the time

You can set the time by the following procedures:

- (1) Press button B while in the Time Display Mode to switch to the Time Setting Mode. At first, seconds will start flashing.
- (2) Press button C until the time element (e.g. seconds, minutes, hours, etc.) you wish to set starts flashing. The time element changes in the following sequence.

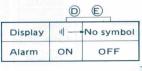


- (3) Press button E to advance the time element. Continuous pressing of button E rapidly advances the time element. When the time element is set as desired, press C to advance to next time element.
- (4) When setting is complete, press button A to revert to the Time Display Mode.

2. How to set alarm on/off

When buttons D and E are pressed simultaneously, the alarm on/off status alternates, as shown in the diagram. To hear alarm beep sound, keep pressing buttons D and E for $2 \sim 3$ seconds.

* When			mark	is not	display	ed in th	ne Time
Displa	y Mod	e, both	the	Schedu	le and	Weekly	Alarms
will no	ot opera	ite.					



Data Mode

Data categories are Memo Data, Schedule Alarm and Weekly Alarm. Each category has an individual label as a title.

1. Using the RC-4000/4400

1-1 Available data displayed
The RC-4000/4400 can input and display three kinds of Data types as shown below.

Memo Data

SE IKO 123-4567 Each Memo Data consists of 2 rows of 12 characters each. All kinds of data can be input (e.g., telephone numbers, customer lists, timetables).

Schedule Alarm

MEETING 10-09p 2:03 Your Schedule Alarm can be input with up to a 12 character message and the desired month, date, hour and minute. At designated time, the message will be displayed and the alarm will sound.

Weekly Alarm

SWIMMING *ISAT # 10:00 Your Weekly Alarm can be input with up to a 12 character message and the desired day of the week, hour and minute. Every week, at the designated time, the alarm will sound and the message will be displayed.

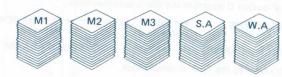
With the RC-4000/4400, you can input the data of the following construction.

Memo Data: 3 sets of 15 pages of data (Memo 1, Memo 2 and Memo 3) Schedule Alarm: 1 set of 15 pages of data Weekly Alarm: 1 set of 15 pages of data

For easy sorting of data, you can put the label for each data file group. For the method, please refer to "How to input labels" on page 15.

Data Mode	Label Displayed	Number of Pages that can be input
	M1	15
Memo Mode	M2	15
	M3	15
S.A Mode	S.A	15
W.A Mode	W.A	15

The following diagram shows the data construction when the data is input on RC-4000/ $4400\,itself.$



1-2 How to recall data

At the time of purchase, the RC-4000/4400 has sample data with the following labels.

Sample data items

■ Memo 1: TELEPHONE NUMBERS

■SCHEDULE ALARM ■ WEEKLY ALARM

■ Memo 2: CLIENT LIST ■ Memo 3: FLIGHT SCHEDULE

You can recall the data in the following manner:

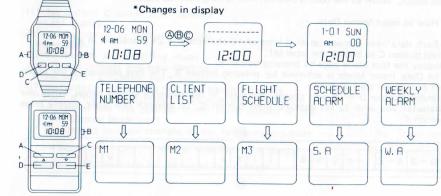
12-06 MON TELEPHONE NUMBERS (1) In the Time Display Mode, press button C to recall the first data label, "TELEPHONE NUMBERS" which is 10:08 Memo 1

- (2) Press buttons D and E to check the data files which have been input previously.
- Button D: reverse order ■Button E: forward (3) Each time you press button C, a different label is displayed in the following order. Continuous pressing of button C advances the labels automatically.
- TELEPHONE NUMBERS → CLIENT LIST → → FLIGHT SCHEDULE (Memo 1) (Memo 2) (Memo 3) WEEKLY ALARM -SCHEDULE ALARM →
- (4) Press button A to revert to the Time Display Mode.

1-3 All clear function

As mentioned in previous section, at the time of purchase, sample data has been input. If buttons A, B and C are pressed simultaneously for more than 3 seconds, the watch will be set as follows:

Time Display Mode: 12:00 AM, 0 seconds, Jan. 1, SUN., Alarm - off Data Mode: All data labels and data items are all-cleared as shown below.



When all data is cleared, the label will be displayed in the top left corner in the following order: M1, M2, M3, S.A and W.A. For changing to your own title, refer to "How to Input Labels."

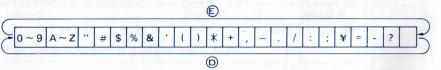
You can input any desired data on your RC-4000/4400, by following the procedures below. Be sure that all the data is cleared because the following procedures are for the all-cleared status. When all the data is cleared, time setting must be done.

1-4 How to input Memo Data

Each data item is made up of 2 lines of 12 characters - 24 characters in all.

- (1) Press button C to display the label M1.
- (2) Display the first blank page by pressing button E.
 (3) The Data Input Mode is achieved by pressing button B. The first position in the upper
- left corner will start flashing.

 (4) Pressing button D or E will change character in the sequence shown below. When the character you wish to set appears, press button C. To advance one space, simply press button C.

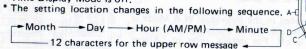


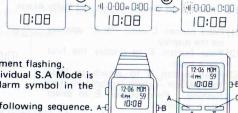
- (5) Continue inputting of data by repeating operation (4).
- (6) When your data is input, press button B to lock the data.
- (7) Scroll to the next blank page by pressing button E. Then repeat operations (3) and (4). (8) Press button A to revert to the Time Display Mode.

1-5 How to set Schedule Alarm

- (1) Press button C until "S.A" appears on the display.
- (2) Press button E to display the first blank page.
- (3) Press button B for setting mode the alarm symbol will start flashing. Press button E to select alarm on/off.
- (4) Press button C to start the first time element flashing.* Even if the alarm symbol in the individual S.A Mode is

on, alarm will not operate if the alarm symbol in the Time Display Mode is off.

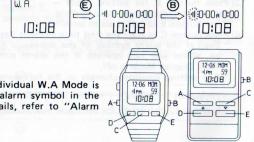




- * Month, day, hour and minute are set in exactly the same way as setting the time in the Time Setting Mode with button E only.
- * The 12 character message is set in the identical manner to the Memo Mode button E to advance and button D to return.
- (5) When your desired character or digit appears, press button C to set.
- (6) When your data is input, press button B to lock the data.
 - (7) Press button E to scroll to the next blank page. Repeat operations (3) to (7) to input data.
- (8) Press button A to revert to the Time Display Mode.

1-6 How to set Weekly Alarm and Daily Alarm

- (1) Press button C until "W.A" appears on the display.
- (2) Press button E to display the first blank page.
- (3) Press button B to switch to Data Input Mode - alarm symbol will start flashing. Press button E to select alarm on/off.
 - * Even if the alarm symbol in the individual W.A Mode is on, alarm will not operate if the alarm symbol in the Time Display Mode is off, For details, refer to "Alarm function".



* The setting location changes in the following sequence. → Dav of the week — → Hour (AM/PM) — Minute

- 12 characters for the upper row message * Day, hour and minute are set in exactly the same way as for the Time Display Mode. Selecting the blank location of the day of the week switches the Weekly Alarm to the Daily Alarm Mode, meaning it will sound at the same time every day.

* The 12 character message is input in the identical manner to the Memo Mode — button E to advance and button D to return.

* Pressing button D or E continuously speeds up the setting operation. (4) Press button B to lock your data. (5) Press button A to revert to the Time Display Mode.

1-7 How to input labels

As explained in "1-1 Available data displayed" on page 7, labels "M1, M2, M3, S.A. W.A" can be changed to your desired title. The procedures are shown below. (1) Press button C to display "M1".

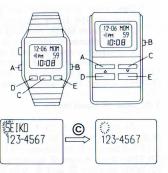
- (2) Then press button B to change to the Input Mode.
- (3) With buttons D and E, you can write your own title over "M1", for example, "TELE-PHONE NUMBERS". The manner is the same to the Memo Setting Mode.
- (4) Press button B to lock.
- (5) Press button A to revert to the Time Display Mode.

1-8 How to change and add data

Data can be changed and added using character input and line delete functions.

- (1) Display the data, you wish to edit by pressing buttons C, D and E.
- (2) Press button B to change to the Data Input Mode.(3) Data edit can be carried out in the following manner.
 - * To change data, press button C to select the character input location and choose the character by pressing buttons D and E. When your desired character appears, press button C to set.
 - * To add data, press button C to select the blank location. Then press buttons D and E to choose the character. When your desired character appears, press button C to set.
 - *To delete data, repeat (1), (2) and press buttons D and E at the same time. The entire row will disappear.
- (4) Press button B to lock.

Note: Line delete can be used only when Memo Mode is displayed. In the Alarm Mode, characters can be deleted but numerals cannot. Also the Labels cannot be deleted.



1-9 Alarm function

How to stop the alarm sounding

* The alarm will sound when the screen is in either the Time Display Mode or Data Mode. You can stop the alarm sounding by pressing any button.

* When the alarm sounds the complementary data message will be displayed and will remain after the alarm has stopped.

* When Schedule and Weekly Alarms are set for the same time the Schedule Alarm will sound

* If either the Schedule Alarm or Weekly Alarm have two settings for the same time, the alarm to be set first will sound first.

Alarm symbol on/off

* Alarm symbols will appear in the Time Display Mode and the Schedule/Weekly Alarm Mode. Alarms are operable only when both of them are set to on.

	Time Display Mode: on	Time Display Mode: off
Alarm Mode: on	Operates	Will not operate
Alarm Mode: off	Will not operate	Will not operate

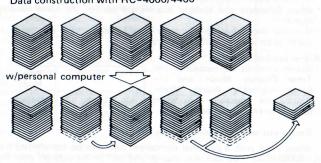
2. Data input with a personal computer

When used with a personal computer, data can be transferred from the computer to the RC-4000/4400. You can also change and add to the data on your RC-4000/4400. (Refer to the previous sections for the operational procedure). In addition, you can set the data construction and the number of data labels as you desire.

2-1 Data construction when used with a personal computer

- * The SEIKO RC-4000/4400 can store a total of 80 "lines" of data.
- * Each of these "data lines" is 24 characters in length.
- * Each data line may be one of three data types:
- A Memo
- A Schedule Alarm
- A Weekly/Daily Alarm
- * At the beginning of each data type, there is a "Label".
- * There may be up to 12 labels in RC-4000/4400 information file.
- * Schedule and Weekly Alarms may have only 1 label each.
- *There may be as many as 12 labels for Memos.

Data construction with RC-4000/4400



12 characters x 2 rows x 80 data = 1920 characters.

2-2 Character code table

This table shows the characters which can be input from a personal computer. If the upper 4 bit codes - 0, 1, 8, 9 (not shown on this table) are input, they will be displayed as a space.

Refer to your software's Instruction Manual for specifications of data transfer.

Upper 4-bit QAQ

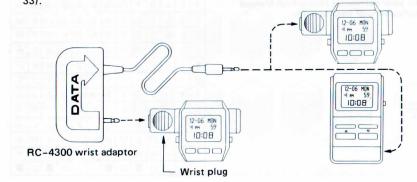
R	В	R	В	2		R	В	R	В	2		2
S	С	S	С	3	#	S	С	S	С	.3	#	3
Т	D	Т	D	4	S	Т	D	Т	D	4	\$	4
U	Ε	U	Е	5	%	U	Е	U	Ε	5	%	5
٧	F	V	F	6	&	V	F	V	F	6	&	6
W	G	W	G	7		W	G	W	G	7		7
Х	Н	X	Η	8	(X	Н	X	Н	8	(8
Υ	-	Y	1	9)	Y	1	Y	1	9)	9
Z	J	Z	J	:	*	Z	J	Z	J	:	*	Α
-1	K	41	K	;	+	4]	K	4	Κ	;	+	В
а	L	а	L	¥	,	а	L	а	L	¥	,	С
р	M	р	М	=	-	р	M	р	M	=	_	D
m	N	m	N	-		m	N	m	Ν	-		Е
	0		0	?	1		0		0	?	/	F

Data Transmission Mode

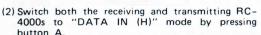
1. How to transmit and receive data from another RC-4000/4400

Data can be transmitted and received between different units of the RC-4000 and between

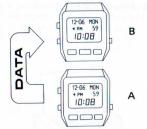
the RC-4000 and RC-4400. The RC-4300 wrist adaptor is necessary for data transmission. (1) Connect your RC-4000/4400 to another via the wrist adaptor as shown below. (For attachment of the wrist plug, refer to the "Wrist Plug" and "RC-4300" on pages 31 and 33).



* The arrow mark on the adaptor shows the direction of transmission (see illustration). The data in A is to be transferred to B. Make sure to connect correctly to avoid mistransmission which may cause the data to disappear.



(3) Switch the transmitting RC-4000/4400 to "DATA OUT (H)" mode by pressing button B, and transmission will start automatically after a beep sound has been heard from both units.



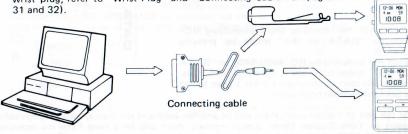
* At the end of transmission, there will be another beep and the display will automatically revert to Time Display Mode. Simultaneously there will be a beep from the receiving RC-4000/4400 which will then display the first data label transmitted.

* Be sure that transfer is carried out correctly. If not, previous data in the reception RC-4000/4400 may be erased or the reception RC-4000/4400 may be all cleared.

* After transmission, the data in both RC-4000/4400s will be identical.

2. How to receive data from a personal computer

(1) Connect the RC-4000/4400 to a personal computer using a wrist plug and connecting cable as shown below (for attachment of the wrist plug, refer to "Wrist Plug" and "Connecting Cable" on pages 31 and 32).



- (2) Switch the RC-4000/4400 to "DATA IN (H)" or "DATA IN (L)" by pressing button A. (H and L show transfer speed. Refer to "Precautions for Data Transmission Mode".)
- (3) When signal is input from your personal computer, a beep sound is heard and the data transfer automatically starts.

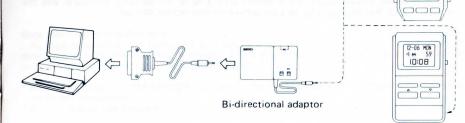


10:08

(4) When data transfer is carried out, another beep sound is heard and RC-4000/4400 display shows the first label transferred. Refer to your software's Instruction Manual for details.

3. How to transmit data to a personal computer

(1) Connect your personal computer to the bi-directional adaptor and the RC-4000/4400 to the adaptor, as shown in the illustration below. (For attachment refer to "Bi-directional Adaptor" on page 34.) Press button A to change the display to "DATA IN (H)" or "DATA IN (L)"



- (2) Switch over to "DATA OUT (H)" or "DATA OUT (L)" to start transmission by pressing button B. Refer to "Precautions for Data Transmission Mode".
- (3) A beep sound is heard as soon as the transmission starts.
- (4) When the transmission is completed, another beep sound is heard and the display reverts to the Time Display Mode.

Notes on Data Transfer with a personal computer

* Be sure that transfer is carried out correctly. If not, previous data in the reception RC-4000/4400 may be erased or the reception RC-4000/4400 may be all cleared.

DATA IN (H)

DATA DUT(L)

* The procedures shown herein are different according to the personal computer and the software used. For details, refer to your software's Instruction Manual.

4. Precautions for Data Transmission Mode

- (1) Before starting data transmission, make sure that all the connections are correctly made.
- (2) During data transmission, avoid touching the buttons or cables which may cause a mistransmission or, erase data.
- (3) There are two transfer speeds High (H), which transfers the information in 10 seconds, and Low (L) with a transfer speed of 80 seconds. One push of button A in the Time Display Mode will change the display to "DATA IN (H)"; one more push changes it to "DATA IN (L)". Both the reception and transmission should be set at the same speed.



Data input erases previous data

As soon as data transfer starts, the previous data is erased as the new data is input. Also, if data transfer fails, previous data is erased. If display reverts to the Time Display Mode while in "DATA IN (H)" mode, data will not be erased.

- * Before switching to "DATA OUT (H)" mode, make sure that all the necessary connections have been completed.
- * All the data will be erased when the battery is exhausted.

Trouble-shooting guide

Problem	Possible Cause	Solution
There is a starting beep but the RC- 4000/4400 is still in "H" mode	The personal computer stopped in the middle of transfer due to power cut-off or other reasons.	If you find the error, try the data transfer again.
after 10 sec. or in "L" mode	The connecting cable was disconnected during transfer.	*This should be done only after pressing
DATA IN (H)	 The RC-4000/4400 was ready to receive data but the personal computer was not fully ready to transmit. Therefore any input is in error. Errors in software that you have written or rewritten yourself. 	button A to revert to the Time Display Mode. Before re- turning to the Time Display Mode, the display will be as in the figure below
DATA IN (L)	5. Transmitting and receiving speed not the same: e.g. when the RC-4000/4400 is set to "L" and the computer transmission speed is 2,400 BPS.	for 4 ~ 5 sec.

Problem	Possible Cause	Solution
There is no starting beep and no data is transferred.	The connecting cable is not properly attached. (If the RC-4000/4400 is worn often, care should be taken to keep the connection on it free from dirt.)	Check cable con- nections and try the transfer again.
After receiving data, there is the following display.	There was an error in the data prepared on the personal computer: e.g. a symbol is entered where a numeral is obligatory.	Check data in personal computer.
12:00	 Transmission was carried out with no data input to the personal computer. Transmitting and receiving speed not the same – The RC-4000 is set to "H" but the computer transmission speed is 300 BPS. 	*Be careful when writing new software yourself.
All the displays become dark.	This is not an error.	Press button A or B to revert to the normal condition.

Take Proper Care of Your RC-4000/4400

1) Water/Perspiration

Your RC-4400 is not water resistant; care should be taken not to expose it to water or heavy perspiration. If it becomes wet wipe it completely with a dry cloth.

Do not operate any of the buttons when the watch is wet. The crystal may become fogged if the outside temperature is lower than that inside the RC-4000/4400. A temporary fogging will not cause a malfunction, but if it does not clear, consult your dealer.

2) Temperature

Your RC-4000/4400 is preadjusted to function accurately when worn on the wrist at a normal temperature range (14° F to 140° F or -10° C to $+60^{\circ}$ C).

Extremely high temperatures

Care should be taken not to expose your watch to high temperatures (over 140°F or 60°C).

Keep it away from direct sunlight or hot locations. If left in excessive heat:

- * The digital display may become black, but this condition will disappear without aftereffects when the temperature returns to normal.
- * The battery life may be shortened, and the battery may suffer electrolyte leakage.

Extremely low temperatures

The watch will work accurately down to 14° F (-10° C), but do not leave it in a cold place.

If exposed to excessive cold for a long time:

- * A small amount of time loss/gain may occur.
- * The display may change more slowly.

The watch will, however, return to normal when the temperature rises.

3) Shocks

Be careful not to drop the RC-4000/4400 or slam it against a hard surface.

4) Battery

Your RC-4000/4400 uses one SB-T12 (BR2325) lithium battery. A new battery will serve for about two years. This two-year battery lifetime is calculated on the basis of the following conditions.

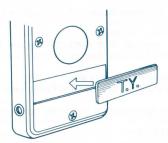
- * Button operations maximum of 20 times a day
- * Use of alarm maximum of 3 times a day, beeping for 20 seconds

Note: Letting the battery run down or replacing the battery will destroy all data stored in the RC-4000/4400. The RC-4000/4400 is not equipped with a run-down battery warning (BLD) capability.

For replacing battery, consult your dealer.

5) For your convenience

- * To adjust the wrist band, ask your dealer.
- * RC-4400 can have a plaque on its back for an engraving (e.g., your initials).



Accessories

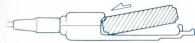
1. Wrist plug (TP-400)

When connecting the RC-4000 to connecting cable, RC-4200, RC-4300 or a personal computer, a special wrist plug is attached (it is not required for the RC-4400).

How to attach and detach from RC-4000

First, the signal pin on the wrist plug is matched up with the signal terminal on the left side of the RC-4000 which is then pushed into position from the right side.

For attaching the wrist plug: 1) Fix left side.

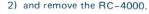


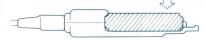
For detaching:

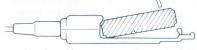
1) Press on the right side,



2) Finish attachment by pushing from the right side.







* Be careful not to exert too much force on the wrist plug. Never remove from the left side or damage may result.

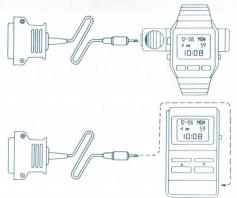
2. Connecting cable

The RC-4000/4400 is connected to a personal computer using a special connecting cable. There are cables available for the Apple II, II+, IIe, IIc, Commodore 64, IBM-PC, and most compatibles. For details, please ask your dealer.

- Insert the jack on connecting cable into socket in wrist plug. When connecting hold the wrist plug firmly.
- (2) To disconnect, again hold the wrist plug firmly. Take hold of jack plug and remove.
 - * Do not pull on the cable as this could break the wire inside.

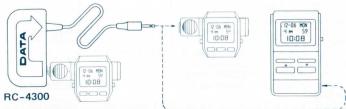
How to attach to the RC-4400

Insert the jack plug on the connecting cable into the socket in the pocket model.



3. Wrist adaptor (RC-4300)

The wrist adaptor is used when data is transmitted to other RC-4000/4400. For the method of data transmission refer to "How to transmit and receive data from another RC-4000/4400" on page 20.



How to connect to RC-4000

- (1) Insert the jack plug on the wrist adaptor into the socket on the wrist plug. (The wrist plug is unnecessary for the RC-4400.)
- (2) To disconnect, grip the jack plug firmly on the receiving RC-4000 side and the adaptor on the transmission RC-4000 side. Do not disconnect by pulling on the cable as this could break the wire inside.

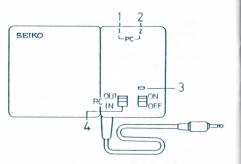
To disconnect the RC-4000 from the wrist plug, refer to "Wrist plug" on page 31.

Note: Take care to avoid contact of the 2 jack plugs on the wrist adaptor as this will cause shorting of the battery.

4. Bi-directional adaptor (RC-4200)

This adaptor is used when data is transmitted from the RC-4000/4400 to a personal computer. For the method of data transmission - refer to "How to transmit data to personal computer" on page 23.

- 1. PC 1 jack: connecting cable is inserted when used with a personal computer with RS232C signal.
- 2. PC 2 jack: connecting cable plug is inserted when used with a personal computer with other than RS232C signal.
- 3. LED: lights up when the power switch is set to ON.
- 4. RC IN/OUT selector switch: set to RC OUT when data is transmitted from the RC-4000/4400 to a personal computer, and RC IN, when data is transmitted to the RC-4000/4400 from a personal computer.
- (1) Connection of the bi-directional adaptor to personal computer. Insert the connecting cable plug into the PC1 or PC2 jack.
- (2) Connection of the bi-directional adaptor to the RC-4000. Insert the jack plug on the bi-directional adaptor into the socket on the wrist plug.



Battery replacement

1. RC-4300 wrist adaptor

- (1) Remove the 2 screws on the bottom cover with a Phillips head screwdriver.
- (2) Take off bottom cover and detach bartery. Care should be taken not to pull too strongly on the snap connector lead as the jack plug and cable will become detached.
- (3) Attach snap connector to new battery.
- (4) Replace bottom cover and use screwdriver to replace 2 screws.

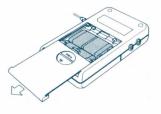
2. RC-4200 bi-directional adaptor

- (1) Remove battery cover.
- (2) Detach batteries.
- (3) Insert new batteries. (Manganese dry battery S-006P 9V)

Note: If the bi-directional adaptor is not going to be used for some time we recommend removing the batteries as there may be leakage.







Specifications

Memory capacity:	2K RAM		
Display:	3-line dot matrix LCD — time of day always displayed on bottom line — data displayed on 2 12-character lines		
Modes:	Time Display Mode:	Year, month, date, AM/PM, day of the week, hours, minutes, seconds	
	Memo Mode:	2-line message	
	Schedule Alarm:	1-line message/alarm time & date	
	Weekly Alarm:	1-line message/alarm time & day	
Battery:	1 lithium battery BR2325 (Matsushita, SB-T12)		
Battery life:	About 2 years		
Operational temp. range:	$14^{\circ} F \sim 140^{\circ} F (-10^{\circ} C \sim +60^{\circ} C)$		
Casing:	RC-4000 — Metal		
	RC-4400 - Plastic		

Water resistance:	RC-4000 — Water Resistant RC-4400 — Non-Water Resistant
Data transmission:	RS-232C Serial (2400/300 Baud)
External dimensions:	RC-4000 — 39.8 x 33.5 x 9.9mm Weight: 38.0g approx. (excluding strap) RC-4400 — 67.0 x 28.4 x 11.2mm Weight: 60.0g approx. (excluding leather case)

Designs and specifications are subject to change without notice.

