3F81・4J51・4J52・8N65・9581
9587・9F61・9F62・9F82・9F83

取扱説明書

INSTRUCTION

SEIKO

GS

Grand Seiko

取扱説明書

INSTRUCTION

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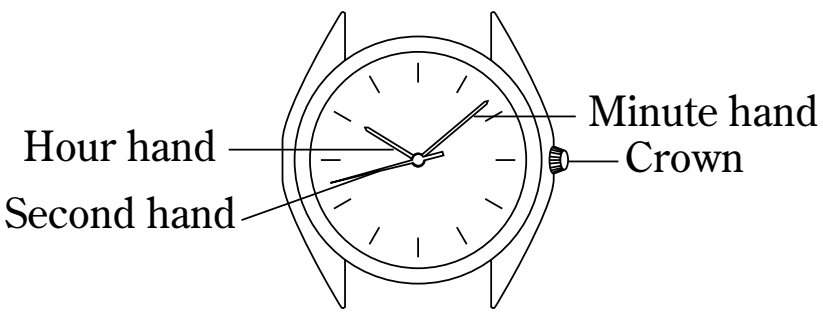
■HOW TO USE 1. 3 hands without date

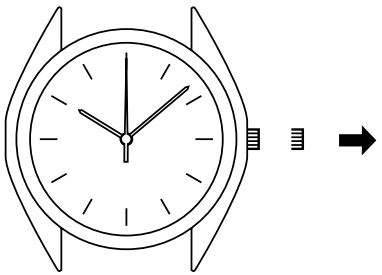
※If your watch has a date frame, please see p.30 for the instructions.
※If your watch has a calendar frame, please see p.34 for the instructions.

<Parts of your GRAND SEIKO watch>



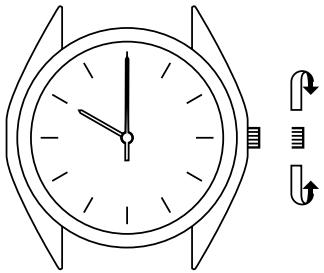
<To set the time>

1



Pull out the crown when the second hand is at the 12 o'clock position. The second hand will stop on the spot.
If the crown is of the screw lock type, unscrew the crown by turning it counterclockwise, and then pull it out.

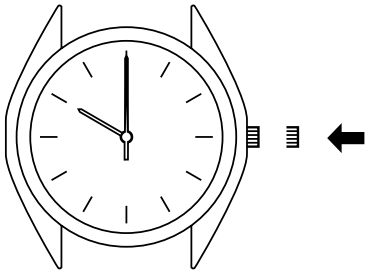
2



Turn the crown to set the hour and minute hands to the desired time.

*The mechanism of the quartz watch is different from that of the mechanical one. To set the time accurately, first turn the minute hand 4 to 5 minutes ahead of the desired time and then return it to the correct time.

3



Push the crown back in to the normal position in accordance with a time signal for "00" seconds. The second hand will start moving immediately.

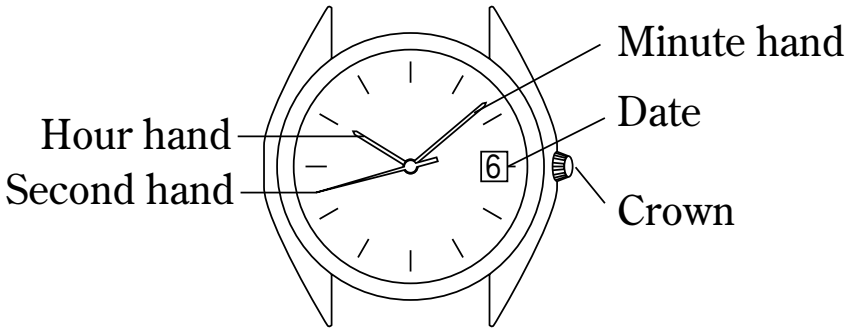
If the crown is of the screw lock type, screw it in completely by turning it clockwise while pressing it.

*The telephone time signal service (TEL.117) is helpful in setting the second hand.

2. 3 hands with date

※If your watch does not have a date frame, please see p.28 for the instructions.
※If your watch has a day frame, Please see p.34 for the instructions.

<Parts of your GRAND SEIKO watch>



Crown position and operation

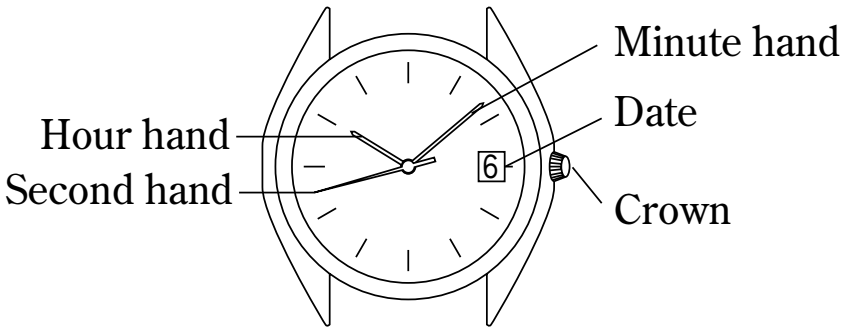
Normal position	: Free
First click	: Date setting
Second click	: Time setting (The second hand stops moving.)

＊Do not set the date between 9:00p.m. and 3:00 a.m. Otherwise, the date may not change properly.

2. 3 hands with date

※If your watch does not have a date frame, please see p.28 for the instructions.
※If your watch has a day frame, Please see p.34 for the instructions.

<Parts of your GRAND SEIKO watch>

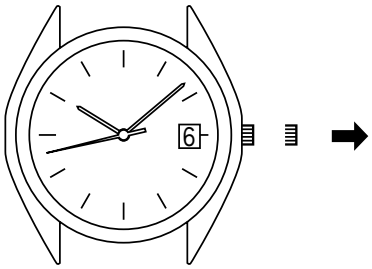


Crown position and operation

Normal position	: Free
First click	: Date setting
Second click	: Time setting (The second hand stops moving.)

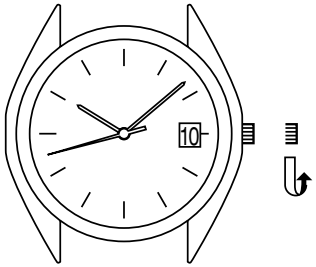
＊Do not set the date between 9:00p.m. and 3:00 a.m. Otherwise, the date may not change properly.

1



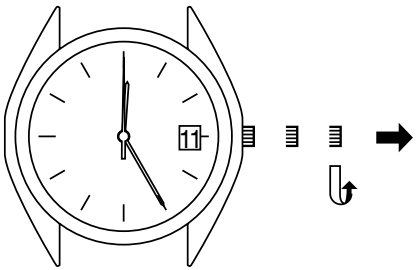
First, set the date.
Pull out the crown to the first click. (Note that the second hand keeps moving)
<u>If the crown is of the screw lock type,</u> unscrew the crown by turning it counterclockwise, and then pull it out.

2



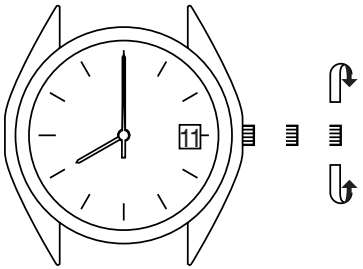
Turn the crown until the previous date appears.

3



Pull out the crown to the second click when the second hand is at the 12 o'clock position, and advance the hour and minute hands untill the desired date appears.

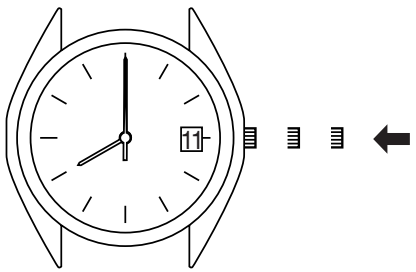
4



Turn the crown to set the hour and minute hands to the desired time.

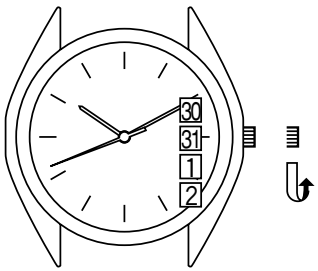
* When setting the hour hand, check that AM/PM is correctly set, as the date is designed to change once in 24 hours.
* The mechanism of the quartz watch is diffierent from that of the mechanical one. To set the time accurately, first turn the minute hand 4 to 5 minutes ahead of the desired time and then return it to the correct time.
* The tlelphone time signal service (TEL. 117) is helpful in setting the second hand.

5



Push the crown back in to the normal position in accordance with a time signal for "00" seconds. The second hand will start moving immediately
<u>If the crown is of the screw lock type,</u> screw it in completely by turning it clockwise while pressing it.

6

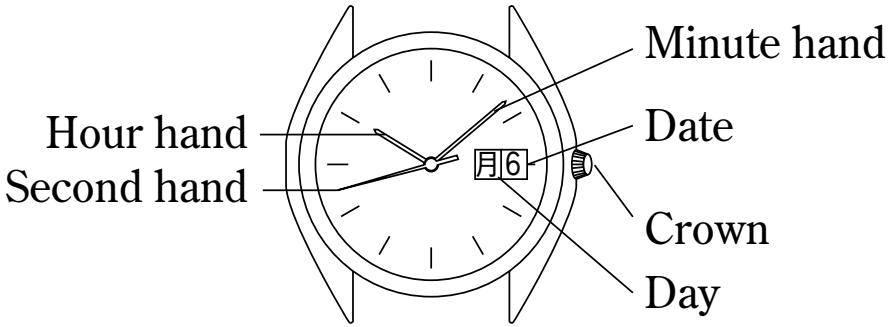


The date numerals change from 1 to 31. Therefore, in the months with thirty or less days (February, April, June, September and November), follow the steps 1 and 2 to adjust the date.

3. 3 hands with date and day

※If your watch does not have a calendar frame, please see p.28 for the instructions.
※If your watch has a date frame, please see p.30 for the instructions.

<Parts of your GRAND SEIKO watch>

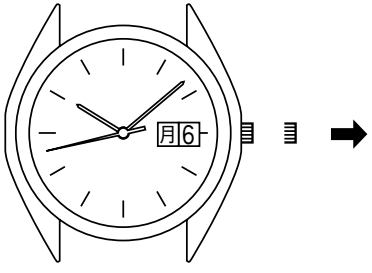


The crown can be pulled out all the way to the second click.

Normal position	: Free
First click	: Day/Date setting
Second click	: Time settinng (The second hand stops moveing.)

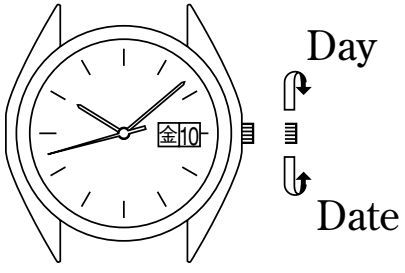
*Do not set the date and day between 0:00 a.m. and 1:00 a.m. Otherwise, the date and day may not change properly due to the mechanism of the watch.

1



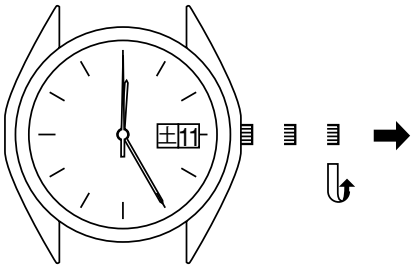
First, set the date and day. Pull out the crown to the first click. (Note that the second hand keeps moving.)
<u>If the crown is of the screw lock type,</u> unscrew the crown by turning it counterclockwise, and then pull it out.

2



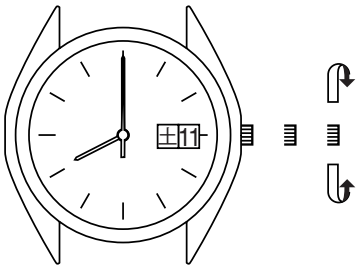
Turn the crown counterclockwise to advance the date and clockwise to advance the day. When the day is advanced, language of the day changes over between Japanese and English alternately.

3



Pull out the crown to the second click when the second hand is at the 12 o'clock position, and advance the hour and minute hands untill the desired date and day appears.

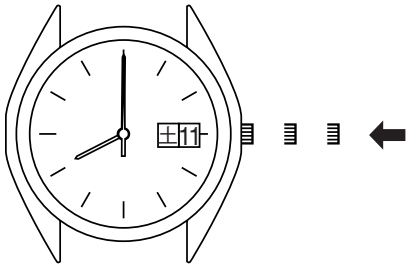
4



Turn the crown the set the hour and minute hands to the desired time.

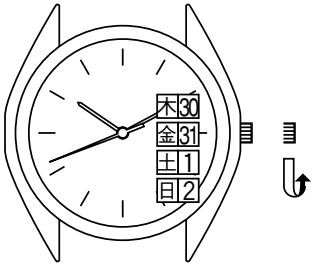
* When setting the hour hand, check that AM/PM is correctly set, as the date and day is designed to change once in 24 hours.
* The mechanism of the quartz watch is different from that of the mechanical one. To set the time accurately, first turn the minute hand 4 to 5 minutes ahead of the desired time and then return it to the correct time.
* The telephon time signal service (TEL. 117) is helpful in setting the second hand.

5



Push the crown back into the normal position in accordance with a time signal for "00" seconds. The second hand will start moving immediately.
<u>If the crown is of the screw lock type,</u> screw it in completely by turning it clockwise while pressing it.

6



The date numerals change from 1 to 31. Therefore, in the months with thirty or less days (February, April, June, September and November), follow the steps 1 and 2 to adjust the date.

<Instant change of date and day>

If the calibre of your watch is 9F62/9F82 (3 hands with date) or 9F83 (3 hands with date and day), the date (and day) change instantly between 0:00 a.m. and 0:05 a.m. (In case of conventional quartz watches, the date and day change gradually between 9:00 p.m. and 3:00 a.m.)

■INTERCALARY SECOND (LEAP SECOND)

Normally there are 86,400 seconds in a day. Due to a slight change in the earth's rotation, an extra second may be added to one day during the year. This is called the intercalary second. Every year the decision is made whether such an adjustment is needed. When the adjustment takes place, the standard time should be corrected by delaying the standard time one second. To keep your SEIKO watch accurate with the world standard time, adjust your watch to a time signal whenever such adjustment is made.

According to the information from the observatories all over the world, the standard time is delayed one second simultaneously throughout the world by the Greenwich Royal Observatory.

In the Greenwich Mean Time, an extra second will be added to the one minute between 11:59 P.M. and 0:00 A.M. either on December 31st or on June 30th. In the Japan Time, due to the time differential an extra second will be added to the one minute between 8:59 A.M. and 9:00 A.M. on January 1st or July 1st.

However, the adjustment may not be made in some years.

Please, check by a newspaper, etc. whether such an adjustment will be made or not.

REMARKS ON THE BATTERY

(1) Battery life

Please note to the calibre of the watch.

Calibre. 3F81 ··Aporoximately two years

4J51·4J52·8N65·9581·9587·9F61·9F62·9F82·9F83

··Aporoximately three years

If a new battery is inserted in your watch, it will last for the period specified in the attached table. Please note that the battery life varies depending on calibres.

(2) Monitor battery

The battery in your watch may run down in less than the specified period after the date of purchase, as it is a monitor battery inserted at the factory to check the function and performance of the watch.

(3) Battery life indicator

The battery needs to be replaced within two or three days when you see the second hand moving in two second intervals instead of the normal one second interval. The watch will, however, remain accurate while the second hand is moving in two second intervals. We suggest that you have the battery replaced by a SEIKO DEALER.

(4) Battery change

①For battery replacement, be sure to have the battery replaced with a new one at the retailer from whom the watch was purchased or an SEIKO DEALER, and request the battery for exclusive use with the SEIKO watches.

②If the old battery is left in the watch for a long time, a malfunction may be caused due to battery leakage, etc. have it replaced with a new one as soon as possible.

③Battery replacement is charged even if it runs down within the guarantee period.

④Once the case back is opened for battery replacement or other purposes, the original water resistant quality designed for the watch may deteriorate when it is

closed. When you have the battery replaced with a new one, also request the water resistance test pertaining to the water resistant quality of your wtach. If your watch has 10-bar or higher water resistant quality, be sure to have such test performed on the watch every time the battery is replaced.
When requesting the checking, therefore, please check the period required for it.
Please note that it takes several days to check the water resistant quality of your watch.When requesting the checking,therefore, please check the period required for it.

⚠ WARNING

1. Do not remove the battery from the watch.
2. If it is necessary to take out the battery, keep it out of the reach of children.
3. If the child swallows it, consult a doctor immediately as it will adversely affect the health of the child.

⚠ CAUTION

1.Never short-circuit, tamper with or heat the battery, or never expose it to fire as it may explode, generate and intense heat or catch fire.
2.The battery in your watch is not rechargeable. Never attempt to rechage it, as this may cause battery leakage or damage to the battery.
3.If the watch is left in a temperature below +5℃ or above +35℃ for a long time, the battery leakage may result, causing the battery life to be shortened.

■TO PRESERVE THE QUALITY OF YOUR WATCH

⚠ CAUTION

●CARE OF YOUR WATCH

· The case and bracelet touch the skin directly just as underware. If they are left dirty, the edge of a sleeve may be stained with rust of those who have a delicate skin may have a rash.

· After removing the watch from your wrist, wipe perspiration or moisture with a soft cloth. This will prevent the watch from being soiled, adding to the life of the gasket.

<LEATHER BAND>

· When removing moisture from a leather band, do not rub the band with the cloth as this may discolor it or reduce its gloss. Be sure to blot up the moisture using a soft dry cloth.

<METAL BRACELET>

· Clean the watch bracelet with a soft toothbrush dipped in water or soapy water. If your watch is not water-resistant, be careful not to get the case wet when cleaning.

· If your watch is 5,10 or 20 bar water resistant, rinse it in a bowl of fresh water after used in seawater. Do not use chemicals to wash it.

· If your watch has a rotating bezel, clean the bezel regularly. Otherwise, dust will gather under it, making the rotation harder.

⚠ **CAUTION**

●RASH AND ALLERGY

· Adjust the bracelet or band so that there will be a little clearance between the bracelet or band and your wrist to avoid accumulation of perspiration.
· If you are constitutionally predisposed to rash, the band may cause you to develop a rash or an itch depending on your physical condition.
· The possible causes of the rash are as follows:
  1.Allergy to metals or leathers
  2.Rust, dust or prespiration on the watch or band
· If you develop any skin reactions, take off the watch and consult a doctor immediately.

●PLACES TO KEEP YOUR WATCH

· If the watch is left in a temperature below-10℃ or above + 60℃ for a long time it may function improperly or stop operating.

· Do not leave the watch in a place where it is subjected to strong magnetism or static electricity.

· Do not leave the watch where there is strong vibration.

· Do not leave the watch in a dusty place.

· Do not expose the watch to gases or chemicals.
(Ex.: Organic solvents such as benzine and thinner, gasoline, nail polish, cosmetic spray, detergent, adhesives, mercury, and iodine antiseptic solution.)

· Do not leave the watch in a hot spring, or do not keep it in a drawer having insecticides inside.

⚠ CAUTION

●WATER RESISTANCE

- Check the dial or case back of your watch for the water resistant quality, and then see the table below.
- Do not turn or pull out the crown when the watch is wet, as water may get inside the watch.

Indication for water resistance a: Indication on the dial b: Indication on the case back		Condition of use / Degree of water resistance	Designed and manufactured to withstand accidental contact with water such as splashes and rain.	Suitable for swimming, yachting and other aquatic sports as wellas for works closely associated with water such as kitchen work, watering and fishing.	Suitable for shallow diving without a heavy breathing apparatus and Bathing.	Genuine diving using scuba.	Genuine diving using heliumgas.
a	No indication	No water resistance	×	×	×	×	×
b	No indication						
a	No indication	Water resistance (3 bar)	○	×	×	×	×
b	WATER RESIST						
a	No indication	Water resistance (5 bar)	○	○	×	×	×
b	WATER RESIST or WATER RESIST 5 BAR						
a	No indication, or WATER RESIST 10 BAR	Water resistance (10 bar)	○	○	○	×	×
b	WATER RESIST 10 BAR						
a	No indication, or WATER RESIST 20 BAR	Water resistance (20 bar)	○	○	○	×	×
b	WATER RESIST 20 BAR						

●ABOUT BATHING

Your watch can be worn while bathing if it is equipped with water resistance over 10 bar

- In that case, please note the following carefully.
- Please do not operate your watch (Crown operation, Button operation etc.) When it is wet with soap or shampoo. it sometimes causese a reducation in the water proofing.
- When the watch gets Warm due to warm water, the watch could gain or lose time to some degree. Howwever, the watch will return to its usual accuracy at normal temperatures.

⚠ WARNING

- If your watch is 3 bar water resistant, do not use it in water.
- If your watch is 5 bar water resistant, do not use it in any type of diving including skin diving.
- If your watch is 10 or 20 bar water resistant, do not use it in saturation diving or scuba diving.

⚠ CAUTION

●Antimagnetic quality of analogue quartz watches

Type of anti-magnetic watches by JIS	Certified level of anti-magnetism	Indication of anti-magnetism on the case back	Antimagnetic quality
—	1,600 A/m	No indication	Your watch will not be affected by the level of magnetism that ordinary watches can withstand.
Type 1	4,800 A/m	∩	Your watch will not be affected by the magnetism generated by household appliances at a distance of down to 5 cm.
Type 2	16,000 A/m	⩂	Your watch will not be affected by the magnetism generated by household appliances at a distance of down to 1 cm.

※SEIKO Diver's Watches are antimagnetic without exception. Therefore, there is no such indication on the case back.

●PRECAUTIONS ON WEARING YOUR WATCH

Take utmost care in the following cases:

- When clasping and unclasping the band, you may damage your nail, depending on the type of clasp used with the band.
- In case you tumble and fall or bump into others with the watch worn on you wrist, you may be injured by the reason of the fact that you wear the watch.
- When you make contact with children, especially with infants, they may get injured or develop a rush caused by allergy.

●PERIODIC CHECK

- We suggest that you have your watch checked by the retailer from whom the watch was purchased every 2 or 3 years or when the battery is replaced for oil condition, battery electrolyte leakage or damage due to water or sweat.
  After checking the watch, adjustment and repair may be required.
- When the replacing the parts or battery, please specify "SEIKO GENUINE PARTS." If an old battery is kept in the watch for a long time, electrolyte leakage from the battery may damage the module.
- Be sure to have the gasket and push-pin replaced with new ones by the retailer from whom the watch was purchased when checking the watch or the battery is replaced.

■TROUBLE SHOOTING

Phenomenon	Possible cause
The watch has stopped operating.	The battery runs down.
	・The watch has been left in extremely high or low temperature for a long time.
The watch gains / loses time.	・The watch was brought into close contact with a magnetic object.
	・You dropped the watch, hit it against a hard surface or wore it while playing active sports. ・The watch was exposed to strong vibrations.
The second hand moves at two-second intervals.	The battery nears its end.
The date changes at 12 o'clock noon.	AM/PM is not properly set.
Blur in the glass persists.	Small amount of water has got inside the watch due to deterioration of the gasket, etc.

※For the solution of troubles other than above, contact the retailer from whom the watch was purchased.

Remedies
If the watch completely stops operating, take it to the retailer from whom it was purchased or an AUTHORIZED SEIKO DEALER.
• This condition will be corrected when the watch temperature returns to normal.
• This condition will be corrected when the watch is kept away from close contact with the magnetic source.
• This condition will not be corrected. Have the watch checked by the retailer from whom the watch was purchased.
Contact the retailer from whom it was purchased or an AUTHORIZED SEIKO DEALER.
Advance the hands by 12 hours.
Consult the retailer from whom the watch was purchased.

■SPECIFICATIONS

1.Frequency of crystal oscillator ·····32,768Hz (Hz=Hertz-Cycles per second)

2.Loss/gain ·····Loss/gain in normal temperatures of between 5℃ and 35℃ Annual rate : Approximately 10 seconds when used on the wrist approximately 8 hours a day. Monthly rate:±2 seconds depending on the manner in which the watch is used.

3.Operational temperature range ·····-10℃～+60℃(14° F～140° F)

4.Antimagnetic ability ·····resistant up to a direct current magnetic field of 60 gausses

5.Driving system ·····Step motor

6.Battery ·····Sliver oxide battery ····1 Battery

cal.3F81	SEIKO SB-AF	cal.8N65	SEIKO SB-AT
cal.4J51	SEIKO SB-AC	cal.9581·9587	SEIKO SB-AJ
cal.4J52	SEIKO SB-AG	cal.9F61·9F62·9F82·9F83	SEIKO SB-AN

7.IC ·····C-MOS-IC ·····1Unit

※The above specifications are subiect to change without notice.

■REMARKS ON AFTER-SALES SERVICING

Your GRAND SEIKO watch was strictly checked and completely adjusted at the factory to ensure its high accuracy.
However, if your watch gets out of order with the correct way of use as described in this instruction booklet within the guarantee period, take your watch to the retailer from whom your watch was purchased, together with the certificate of guarantee. Repair and adjustment will be made without charge.

■REMARKS ON REPLACEMENT PARTS

- SEIKO makes it policy to usually keep a stock of spare parts for GRAND SEIKO wathes for 10 years. In principle, your watch can be reconditioned within this period if used normally. (Replacement parts are those which are essential to maintaining the functional integrity of the watch.)
- The number of years that a watch is considered repairable may vary greatly depending on the conditions under which it was used, and normal accuracy may not be achieved in some cases. We recommend, therefore, that you consult the retailer from whom the watch was purchased when having them repair your watch.
- The case, dial, hands glass and bracelet, or parts thereof may be replaced with substitutes if the originals are not available.