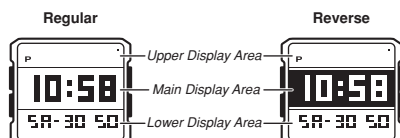# Operation Guide 3085

CASIO®

About This Manual

- Button operations are indicated using the letters shown in the illustration.
- Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the "Reference" section.
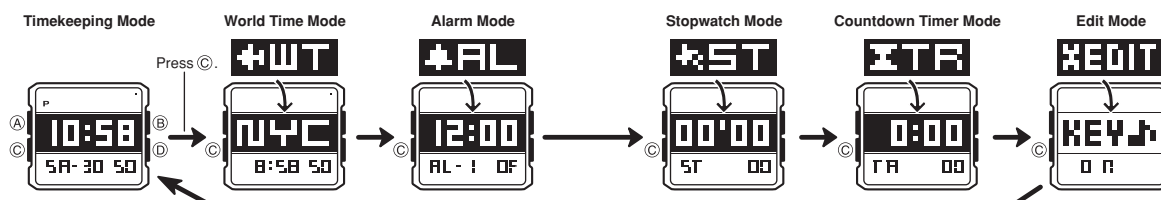
About the Display

- The display of the watch is divided into three areas: main (center), upper, and lower.
- You can select either of two settings for the main display area:
  Regular (background/figure color combination same as the upper and lower display areas) or Reverse (background/figure color combination opposite that of the upper and lower display areas).
- The initial factory default setting for the main display area is "12H", which switches between Regular and Reverse automatically every 12 hours.
- See "Main Display Area Style" for information about changing the main display area style.

Regular

Upper Display Area
Main Display Area
Lower Display Area

Reverse

General Guide

- Press Ⓒ to change from mode to mode.
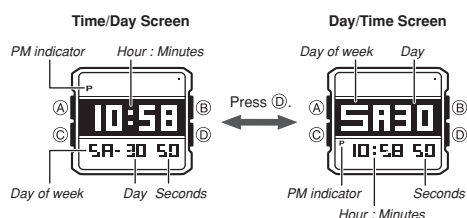- In any mode (except when a setting screen is on the display), press Ⓑ to illuminate the display.

- An icon appears momentarily on the display whenever you enter any mode besides the Timekeeping Mode.

Timekeeping Mode   **World Time Mode**   **Alarm Mode**   **Stopwatch Mode**   **Countdown Timer Mode**   **Edit Mode**

Press Ⓒ.

Timekeeping

Use the Timekeeping Mode to set and view the current time and date.
- Pressing Ⓓ in the Timekeeping Mode will toggle between the Time/Day screen and the Day/Time screen.

Time/Day Screen   **Day/Time Screen**

PM indicator   Hour : Minutes

Day of week   Day

Press Ⓓ.

Day of week   Day   Seconds

PM indicator   Seconds

Hour : Minutes

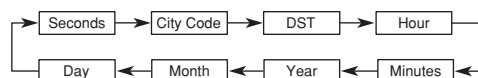### Read this before you set the time and date !

The times displayed in the Timekeeping Mode and World Time Mode are linked. Because of this, make sure you select a city code for your Home City (the city where you normally use the watch) before you set the time and date.
- To view the current Home City code setting, press Ⓐ while in the Timekeeping Mode.
- For full information on city codes, see the "City Code Table".

To set the time and date

1. In the Timekeeping Mode, hold down Ⓐ until the seconds start to flash, which indicates the setting screen.
2. Press Ⓒ to move the flashing in the sequence shown below to select other settings.

Seconds → City Code → DST → Hour
Day ← Month ← Year ← Minutes

3. When the setting you want to change is flashing, use Ⓓ and Ⓑ to change it as described below.

Screen	To do this:	Do this:
50	Reset the seconds to 00	Press Ⓓ.
TYO	Change the city code	Use Ⓓ (east) and Ⓑ (west).
DST OF	Toggle between Daylight Saving Time (On) and Standard Time (OF)	Press Ⓓ.
10:58	Change the hour or minutes	Use Ⓓ (+) and Ⓑ (−).
6.30 20 01	Change the year, month, or day	Use Ⓓ (+) and Ⓑ (−).

- See "Daylight Saving Time (DST)" for details about the DST setting.
4. Press Ⓐ to exit the setting screen.
- Resetting the seconds to 00 while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29, the seconds are reset to 00 without changing the minutes.
- The year can be set in the range of 2000 to 2099.
- The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced.
- The day of the week is automatically displayed in accordance with the date (year, month, and day) settings.
- A leading zero is added to dates from 1 through 9.
    Example: The 1st of the month is displayed as 01.

Daylight Saving Time (DST)

Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time.
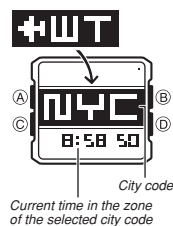
To toggle the Timekeeping Mode time between DST and Standard Time

DST indicator

On/Off status

1. In the Timekeeping Mode, hold down Ⓐ until the seconds start to flash, which indicates the setting screen.
2. Press Ⓒ twice to display the DST setting screen.
3. Press Ⓓ to toggle between Daylight Saving Time (On) and Standard Time (OF).
4. Press Ⓐ to exit the setting screen.
- The **DST** indicator is displayed on the Timekeeping Mode and Alarm Mode screen while Daylight Saving Time is turned on.

World Time

World Time shows the current time in 48 cities (29 time zones) around the world.
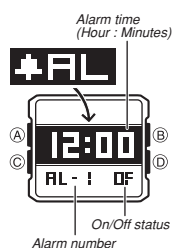• All of the operations in this section are performed in the World Time Mode, which you enter by pressing Ⓒ.

City code

Current time in the zone of the selected city code

To view the time for another city code
In the World Time Mode, press Ⓓ to scroll eastwardly through city codes.
• For full information about city codes, see the "City Code Table".
• If the current time shown for a city is wrong, check your Timekeeping Mode time and Home City code settings and make the necessary changes.

To toggle a city code time between Standard Time and Daylight Saving Time

DST indicator

1. In the World Time Mode, use Ⓓ to display the city code (time zone) whose Standard Time/Daylight Saving Time setting you want to change.
2. Hold down Ⓐ for about one second to toggle between Daylight Saving Time (**DST** indicator displayed) and Standard Time (**DST** indicator not displayed).
• The **DST** indicator is on the display whenever you display a city code for which Daylight Saving Time is turned on.
• Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.
• In the World Time Mode, you can switch the city code you currently have selected as your Timekeeping Mode Home City between Standard Time and DST. The setting you select in the World Time Mode will also be applied in the Timekeeping Mode.
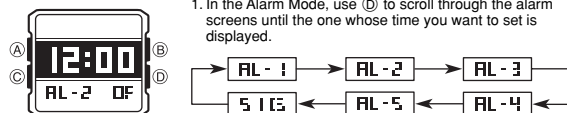
Alarms

Alarm time (Hour : Minutes)

On/Off status

Alarm number

You can set five independent Daily Alarms. When an alarm is turned on, the alarm tone sounds when the alarm time is reached.
You can turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour.
• There are six screens in the Alarm Mode. Five are for alarms (indicated by numbers from ᖇᒷ-ᐧ through ᖇᒷ-5), and one is for the Hourly Time Signal (indicated by 5�I᧐).
• All of the operations in this section are performed in the Alarm Mode, which you enter by pressing Ⓒ.
• You can select any one of three alarm beeper patterns.

To set an alarm time

1. In the Alarm Mode, use Ⓓ to scroll through the alarm screens until the one whose time you want to set is displayed.

AL-1 → AL-2 → AL-3
SIG ← AL-5 ← AL-4

• To set an alarm, display one of the screens indicated by an alarm number from ᖇᒷ-ᐧ through ᖇᒷ-5.
2. After you select an alarm, hold down Ⓐ until the hour setting of the alarm time starts to flash, which indicates the setting screen.
• This operation turns on the alarm automatically.
3. Press Ⓒ to move the flashing between the hour and minute settings.
4. While a setting is flashing, use Ⓓ (+) and Ⓑ (−) to change it.
• When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (**P** indicator).
5. Press Ⓐ to exit the setting screen.

Alarm Operation
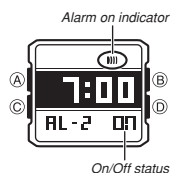The alarm sounds at the preset time for about 10 seconds, regardless of the mode the watch is in.
• To stop the alarm tone after it starts to sound, press any button.

To test the alarm
In the Alarm Mode, hold down Ⓓ to sound the alarm.
• The alarm will sound using the currently selected beeper pattern.

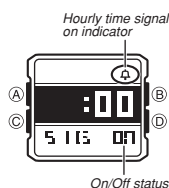### To turn an alarm on and off

Alarm on indicator

On/Off status

1. In the Alarm Mode, use Ⓓ to select an alarm.
2. Press Ⓐ to toggle it on (ᗝᑎ displayed) and off (ᗝᖴ displayed).
• Turning on an alarm (ᖇᒷ-ᐧ through ᖇᒷ-5) displays the alarm on indicator on its Alarm Mode screen.
• In all modes besides the Alarm Mode, the alarm on indicator is shown for any alarm that is currently turned on.
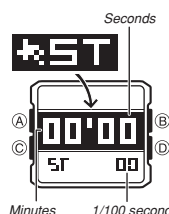• The alarm on indicator flashes while the alarm is sounding.

To turn the Hourly Time Signal on and off

Hourly time signal on indicator

On/Off status

1. In the Alarm Mode, use Ⓓ to select the Hourly Time Signal (5I᧐).
2. Press Ⓐ to toggle it on (ᗝᑎ displayed) and off (ᗝᖴ displayed).
• Turning on the Hourly Time Signal displays the Hourly Time Signal indicator on its Alarm Mode screen.
• While the Hourly Time Signal is turned on, the Hourly Time Signal on indicator is shown on the display in all modes besides the Alarm Mode.
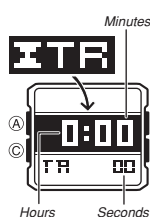
Stopwatch

Seconds

Minutes *1/100 second*

The stopwatch lets you measure elapsed time, split times, and two finishes.
• The display range of the stopwatch is 59 minutes, 59.99 seconds.
• The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
• The stopwatch measurement operation continues even if you exit the Stopwatch Mode.
• Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.
• All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing Ⓒ.

To measure times with the stopwatch

Elapsed Time
Ⓓ → Ⓓ → Ⓓ → Ⓓ → Ⓐ
Start Stop Re-start Stop Clear

Split Time
Ⓓ → Ⓐ → Ⓐ → Ⓓ → Ⓐ
Start Split Split release Stop Clear
        (5ᑭᑐ displayed)

Two Finishes
Ⓓ → Ⓐ → Ⓓ → Ⓐ → Ⓐ
Start Split Stop Split release Clear
        First runner Second runner Display time of
        finishes. finishes. second runner.
        Display time of
        first runner.

Countdown Timer

Minutes

Hours *Seconds*

You can set the countdown timer within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero.
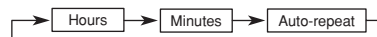• You can also select auto-repeat, which automatically restarts the countdown from the original value you set whenever zero is reached.
• All of the operations is this section are performed in the Countdown Timer Mode, which you can enter using Ⓒ.

To use the countdown timer
Press Ⓓ while in the Countdown Timer Mode to start the countdown timer.
• When the end of the countdown is reached and auto-repeat is turned off, the alarm sounds for 10 seconds or until you stop it by pressing any button. The countdown time is automatically reset to its starting value after the alarm stops.
• When auto-repeat is turned on, the countdown will restart automatically without pausing when it reaches zero. The alarm sounds to signal when the countdown reaches zero.
• The countdown timer measurement operation continues even if you exit the Countdown Timer Mode.
• Press Ⓓ while a countdown operation is in progress to pause it. Press Ⓓ again to resume the countdown.
• To completely stop a countdown operation, first pause it (by pressing Ⓓ), and then press Ⓐ. This returns the countdown time to its starting value.

To set up the countdown timer

1. While the countdown start time is on the display in the Countdown Timer Mode, hold down Ⓐ until the hour setting of the countdown start time starts to flash, which indicates the setting screen.
• If the countdown start time is not displayed, use the procedure under "To use the countdown timer" to display it.
2. Press Ⓒ to move the flashing in the sequence shown below to select other settings.

Hours → Minutes → Auto-repeat

3. While a setting is flashing, use Ⓓ and Ⓑ to change it as described below.

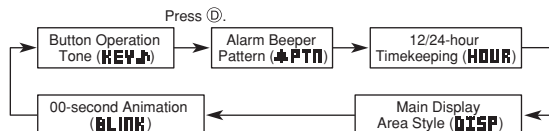| Screen	To do this:	Do this:
0:00	Change the hours or minutes	Use Ⓓ (+) and Ⓑ (−).
↻ OF	Toggle auto-repeat on (ᗝᑎ) and off (ᗝᖴ)	Press Ⓓ.

• To specify a countdown start time of 24 hours, set 0:00.
4. Press Ⓐ to exit the setting screen.
• The auto-repeat on indicator (↻) is displayed on the Countdown Timer Mode screen while this function is turned on.
• Frequent use of auto-repeat and the alarm can run down battery power.

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Edit Mode

You can use the Edit Mode to configure various settings, such as the main display style and the alarm beeper pattern.
The following are the settings that you can configure in the Edit Mode.
- Button operation tone on/off
- Alarm beeper pattern
- 12/24-hour timekeeping
- Main display area style
- 00-second animation on/off
- All of the operations in this section are performed in the Edit Mode, which you enter by pressing Ⓒ.
- Each press of the Ⓓ button cycles through available settings in the sequence shown below.

Press Ⓓ.

Button Operation Tone (**KEY♪**) → Alarm Beeper Pattern (**♪PTN**) → 12/24-hour Timekeeping (**HOUR**)

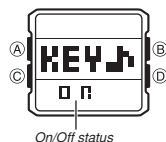00-second Animation (**BLINK**) ← Main Display Area Style (**DISP**)

Button Operation Tone

The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation tone on or off as desired.
- Even if you turn off the button operation tone, the alarm, Hourly Time Signal, and Countdown Timer Mode alarm all operate normally.

To turn the button operation tone on and off

1. In the Edit Mode, use Ⓓ to display the Button Operation Tone selection screen.
2. Press Ⓐ to toggle the button operation tone on (**O N**) and off (**O F**).

Ⓐ **KEY♪** Ⓑ
Ⓒ **O N** Ⓓ

On/Off status

Alarm Beeper Pattern

You can select any one of three alarm beeper patterns.
- To hear what the current beeper sounds like, see "To test the alarm".

To change the alarm beeper pattern

1. In the Edit Mode, use Ⓓ to display the Alarm Beeper Pattern selection screen.
2. Use Ⓐ to change the setting.

Ⓐ **♪PTN** Ⓑ
Ⓒ **A** Ⓓ

12/24-hour Timekeeping

You can select either 12-hour or 24-hour timekeeping.

To select 12-hour or 24-hour timekeeping

1. In the Edit Mode, use Ⓓ to display the 12/24-hour Timekeeping selection screen.
2. Press Ⓐ to toggle between 12-hour (**12 H**) and 24-hour (**24 H**) timekeeping.
- With the 12-hour format, the **P** (PM) indicator appears on the display for times in the range of noon to 11:59 p.m. and no indicator appears for times in the range of midnight to 11:59 a.m.
- With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator.
- The 12-hour/24-hour timekeeping format you select is applied in all modes.

Ⓐ **HOUR** Ⓑ
Ⓒ **12 H** Ⓓ

Main Display Area Style

You can select from among five different styles for the main display area.

Ⓐ **DISP** Ⓑ
Ⓒ **12 H** Ⓓ

- **AE E** : Background/figure color combination same as the upper and lower display areas (Regular)
- **AE I** : Background/figure color combination opposite that of the upper and lower display areas (Reverse)
- **30 ''** : Switches between Regular and Reverse automatically every 30 seconds (00 and 30).*
- **30 '** : Switches between Regular and Reverse automatically every 30 minutes (00 and 30).*
- **12 H** : Switches between Regular and Reverse automatically every 12 hours (6:00 a.m. and 6:00 p.m.)*
- *   When any of these switching operations is selected, the main display area style is Regular while a setting screen or the Edit Mode screen is on the display.

To select the main display area style

1. In the Edit Mode, use Ⓓ to display the Main Display Area Style selection screen.
2. Use Ⓐ to change the setting.

00-second Animation

You can use this setting to turn display animation on or off. The display animation is blink animation that is played each time the seconds reach 00 in the Timekeeping Mode (except when a setting screen is on the display) and World Time Mode.

To turn 00-second animation on and off

1. In the Edit Mode, use Ⓓ to display the 00-second animation selection screen.
2. Press Ⓐ to toggle 00-second animation on (**O N**) and off (**O F**).

Ⓐ **BLINK** Ⓑ
Ⓒ **O N** Ⓓ

On/Off status

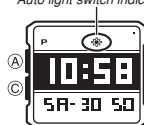#### To reset all Edit Mode settings to their initial defaults

In the Edit Mode, hold down Ⓑ and Ⓓ for about three seconds until **✳ RST** flashes on the display and the watch beeps.
- This returns all Edit Mode settings to their initial default settings.

Button Operation Tone	O N
Alarm Beeper Pattern	A
12/24-hour Timekeeping	12 H
Main Display Area Style	12 H
00-second Animation	O N

Illumination

Auto light switch indicator

Ⓐ **10:58** Ⓑ
Ⓒ **SA-30 50** Ⓓ

Two LEDs (light-emitting diode) illuminate the display for easy reading in the dark. The watch's auto light switch turns on illumination automatically when you angle the watch towards your face for reading.
- The auto light switch must be turned on (indicated by the auto light switch indicator) for it to operate.
- See "Illumination Precautions" for more important information.

To illuminate the display

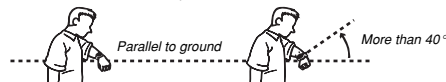In any mode (except when a setting screen is on the display), press Ⓑ to turn on illumination.
- The above operation turns on illumination regardless of the current auto light switch setting.

About the Auto Light Switch

While the auto light switch is enabled, illumination turns on whenever you position your wrist as described below in any mode.

Moving the watch to a position that is parallel to the ground and then tilting it towards you at more than 40 degrees causes illumination to turn on.
- Wear the watch on the outside of your wrist.

Parallel to ground   *More than 40°*

Warning!
- **Always make sure you are in a safe place whenever you are reading the watch using the auto light switch. Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not startle or distract others around you.**
- **When you are wearing the watch, make sure that its auto light switch is turned off before riding on a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.**

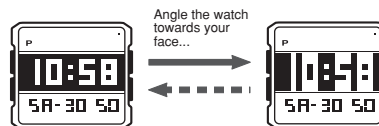### To turn the auto light switch on and off

In the Timekeeping Mode, hold down Ⓑ for about three seconds to toggle the auto light switch on (auto light switch indicator displayed) or off (auto light switch indicator not displayed).
- The auto light switch indicator is on the display in all modes while the auto light switch is turned on.
- In order to protect against running down the battery, the auto light switch turns off automatically approximately six hours after you turn it on.

Auto Zoom

In any mode besides the Edit Mode (and except while any setting screen is displayed and while an icon is displayed immediately after entering a mode), angling the watch towards your face for viewing will cause the figures in the main display area to enlarge automatically.
- The figures will return to normal size after about two seconds or if you perform any button operation.
- For more information about the arm position that triggers Auto Zoom, see "About the Auto Light Switch".

Angle the watch towards your face...

10:58 **SA-30 50** → **10:58** **SA-30 50**

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Reference

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Auto Display

Auto Display causes the Timekeeping Mode main display area to switch between Regular and Reverse every five seconds.

To turn off Auto Display
Press any button to turn off Auto Display.

To turn on Auto Display
In the Timekeeping Mode, hold down Ⓒ for about three seconds until the watch beeps.
• Note that Auto Display cannot be performed while a setting screen is on the display.

Dot Animation
Four dots in the upper right corner of the display appear and disappear during certain watch operations. This animation is for appearance purposes only.

Auto Return Features
• If you leave the watch in the Alarm or Edit Mode for two or three minutes without performing any operation, it changes to the Timekeeping Mode automatically.
• If you leave a screen with flashing digits or a cursor on the display for two or three minutes without performing any operation, the watch saves any settings you have made up to that point and exits the setting screen automatically.

Scrolling
The Ⓑ and Ⓓ buttons are used in various modes and setting screens to scroll through data on the display. In most cases, holding down these buttons scrolls at high speed.

Initial Screens
When you enter the Timekeeping, World Time, Alarm or Edit Mode, the data you were viewing when you last exited the mode appears first.

World Time
• The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.
• All World Time Mode times are calculated from the current Home City time in the Timekeeping Mode using UTC time differential values.
• The UTC differential is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located.
• The letters "UTC" is the abbreviation for "Coordinated Universal Time", which is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation.

Illumination Precautions
• Illumination may be hard to see when viewed under direct sunlight.
• Illumination turns off automatically whenever an alarm sounds.
• Frequent use of illumination runs down the battery.

Auto light switch precautions
• Avoid wearing the watch on the inside of your wrist. Doing so causes the auto light switch to operate when it is not needed, which shortens battery life. If you want to wear the watch on the inside of your wrist, turn off the auto light switch feature.

More than 15 degrees too high

• Illumination may not turn on if the face of the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground.
• Illumination turns off in about one seconds, even if you keep the watch pointed towards your face.
• Static electricity or magnetic force can interfere with proper operation of the auto light switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back towards you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again.

• Under certain conditions, illumination may not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the auto light switch.
• You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch.

City Code Table

City Code	City	UTC Differential	Other major cities in same time zone
PPG	Pago Pago	−11.0	
HNL	Honolulu	−10.0	Papeete
ANC	Anchorage	−09.0	Nome
YVR	Vancouver	−08.0	Las Vegas, Seattle/Tacoma, Dawson City
SFO	San Francisco		
LAX	Los Angeles		
DEN	Denver	−07.0	El Paso, Edmonton
MEX	Mexico City	−06.0	Winnipeg, Houston, Dallas/Fort Worth, New Orleans
CHI	Chicago		
MIA	Miami	−05.0	Montreal, Detroit, Boston, Panama City, Havana, Lima, Bogota
NYC	New York		
CCS	Caracas	−04.0	La Paz, Santiago, Port Of Spain
YYT	St. Johns	−03.5	
RIO	Rio De Janeiro	−03.0	Sao Paulo, Buenos Aires, Brasilia, Montevideo
RAI	Praia	−01.0	
LIS	Lisbon	+00.0	Dublin, Casablanca, Dakar, Abidjan
LON	London		
BCN	Barcelona	+01.0	Amsterdam, Algiers, Hamburg, Frankfurt, Vienna, Stockholm, Madrid
PAR	Paris		
MIL	Milan		
ROM	Rome		
BER	Berlin		
ATH	Athens	+02.0	Helsinki, Beirut, Damascus, Cape Town
JNB	Johannesburg		
IST	Istanbul		
CAI	Cairo		
JRS	Jerusalem		
MOW	Moscow	+03.0	Kuwait, Riyadh, Aden, Addis Ababa, Nairobi
JED	Jeddah		
THR	Tehran	+03.5	Shiraz
DXB	Dubai	+04.0	Abu Dhabi, Muscat
KBL	Kabul	+04.5	
KHI	Karachi	+05.0	
MLE	Male		
DEL	Delhi	+05.5	Mumbai, Kolkata, Colombo
DAC	Dhaka	+06.0	
RGN	Yangon	+06.5	
BKK	Bangkok	+07.0	Jakarta, Phnom Penh, Hanoi, Vientiane
SIN	Singapore	+08.0	Kuala Lumpur, Taipei, Manila, Perth, Ulaanbaatar
HKG	Hong Kong		
BJS	Beijing		
SEL	Seoul	+09.0	Pyongyang
TYO	Tokyo		
ADL	Adelaide	+09.5	Darwin
GUM	Guam	+10.0	Melbourne, Rabaul
SYD	Sydney		
NOU	Noumea	+11.0	Port Vila
WLG	Wellington	+12.0	Christchurch, Nadi, Nauru Island

*Based on data as of June 2006.