

DAKOTA WATCH COMPANY

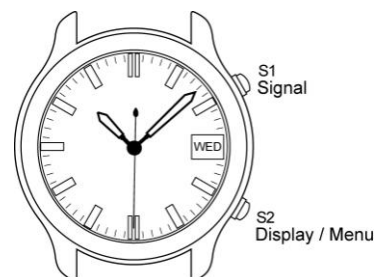
Instruction Manual (DD)

USA-EURO multi-bands 3-Hands Radio Controlled Ana-Digit Watch

IM code: RADD6A3

Date: August-2007

(2 Buttons)



Main Features:

1. Automatic Radio Controlled Time Setting for USA (WWVB), Germany (DCF), UK (MSF), and Japan (JJY 60Khz)
2. Time Zone setting by 31 major City names
3. 3 Levels Signal strength indicator
4. Reception success and failure indicator
5. LCD reading selection for:
Day, or
Date & Month or
Second
6. Language selection between English and German for Day
7. Second-hand Calibration (LCD shows CAL)
8. 2 years CR2025 Battery

Button Functions:

S1

- Press once to check if the reception was OK or Fail
- Hold this button for Manual Signal Reception (3 seconds)

S2

- Press to set LCD display to show
Day, or
Date . Month or,
Second
- Hold this button to enter the “Main Menu”

Manual Signal Reception:

1. Hold S1 for more than 3 seconds until the LCD display shows the Antenna icon.
There is one digit on the right hand side of the display showing the signal to receive.
Where W=WWVB, J=JJY, D=DCF and M=MSF. At the same time, the second-hand pauses at 12 o'clock during signal reception (for all Time Zones)
2. Put the watch (with face-up or face-down, never put the watch on its side) nearby a window to get signal.
3. After reception, the watch will show the time again after the fast running of the minute hand has stopped

During signal reception, the LCD display shows the signal-strength. It is good to search for a location where signal is the strongest for a good signal reception.

Reception Status Check:

You can check if the watch was able to pick up signal.
Press S1 once to check (while the watch runs normally).

If Reception OK → The LCD window shows OK
If Reception FAIL → The LCD window shows NO

LCD Display selection:

You can set the watch to show either one of the following digital readings on the LCD display.

- a. Date, or
- b. Day and Month
- c. Second

To set your preferred display, press S2 (the lower right button) repeatedly to select.

Time Zone Setting:

USA user must set the watch to one of the following Time Zones.

<u>Time Zone</u>	<u>Reading on LCD</u>
Eastern	NYC (New York, USA)
Central	CHI (Chicago, USA)
Mountain	DEN (Denver, USA)
Pacific	LAX (Los Angeles, USA)

1. Hold S2 (the lower right button) for about 3 seconds while the watch is in the normal time keeping mode until the LCD displays a city name (3 digit city code)
2. Press S1 (the upper right button) to set your time zone according to the following table.
3. Press S2 to confirm (or the watch will confirm by itself after 1 minute)
4. The watch will run to the new time according to the new time zone setting automatically after the confirmation. Wait until the watch runs normally. The LCD shows "WAIT" telling you to wait while it is updating the time. The running time varies from 2 to 40 minutes according to your time zone setting.

Table of Time Zones by 31 Major City Names

If you travel to a country where no radio signal is available, your watch will continue to function as a standard watch.

<u>Time Zone</u>	<u>City Code (City Name) on LCD display</u>
+0 (UK)	LON (London) – Radio Signal available
+1 (Europe)	BER (Berlin) – Radio Signal available
+1 (Europe)	PAR (Paris) – Radio Signal available
+1 (Europe)	ROM (Rome) – Radio Signal available
+1 (Europe)	AMS (Amsterdam) – Radio Signal available
+1 (Europe)	BRU (Brussels) – Radio Signal available
+1 (Europe)	STO (Stockholm) – Radio Signal available
+1 (Europe)	WAW (Warsaw) – Radio Signal available
+1 (Europe)	MAD (Madrid) – Radio Signal available
+2	CAI (Cairo)
+3	MOW (Moscow)
+4	DXB (Dubai)
+5	KHI (Karachi)
+6	DAC (Dacca)
+7	BKK (Bangkok)
+8	PEK (Beijing, China)
+8	HKG (Hong Kong, China)
+9	SEL (Seoul, Korea) – Radio Signal available
+9 (Japan)	TYO (Tokyo) – Radio Signal available
+10	SYD (Sydney)
+11	NOU (Noumea)
+12	AKL (Auckland)

<u>Time Zone</u>	<u>City Code (City Name) on LCD display</u>
-12	---
-11	---
-10	HNL (Honolulu)
-9	ANC (Anchorage)
-8 (Pacific)	LAX (Los Angeles) – Radio Signal available
-7 (Mountain)	DEN (Denver) – Radio Signal available
-6 (Central)	CHI (Chicago) – Radio Signal available
-5 (Eastern)	NYC (New York) – Radio Signal available
-5	YUL (Montreal, Canada)
-4	CCS (Caracas)
-3	RIO (Rio De Janeiro)
-2	---
-1	---

English / German language selection

You can select English or German language for the Day on the LCD display.

1. Hold S2 (the lower right button) for about 3 seconds while the watch is in the normal time keeping mode until the LCD displays a city name (3 digits city code)
2. Press S2 once again and the LCD shows a blinking day.
3. Press S1 to switch the day from English to German language or vice versa.
4. Press S2 to confirm.

Manual Time Setting

Your watch will set itself automatically. This manual time setting is an option only when there is no signal available or after the battery is replaced. When you travel abroad, you should change the time of your watch using time zone setting instead of the manual time setting.

1. Hold S2 (the lower right button) for about 3 seconds while the watch is in the normal time keeping mode until the LCD displays a city name (3 digits city code)
2. Press S2 repeatedly until it shows hour digits. You can see an “H” on the LCD representing hour setting in 24 hour format.
3. Press S1 to set and S2 to confirm the Hour setting
4. After confirmation of Hour, the LCD shows “M” representing Minute setting, press S1 to set and S2 to confirm.

The watch will run to the new time according to the new time setting automatically after the confirmation and shows “WAIT”. Wait until the watch resumes normal running.

TROUBLESHOOTING

If your watch displays the incorrect language for the day, the incorrect hour for set time zone, or incorrect minute:

1. Hold down the S2 button for 3 seconds while the watch is in the normal time keeping mode until the Time Zone City (3 digit city code) starts to blink (If you Time Zone City is incorrect, Press S1 repeatedly until the desired time zone is reached).
2. Once the Time Zone City blinks, Press S2 again to enter additional watch settings.
3. Press S2 again to display the day icon. If the setting is in German press S1 to change the setting to English, if the setting is in English press S1 to change the setting to German.
4. Press S2 again to display the hour set mode. In this mode the letter H will be displayed and a number will be blinking on the LCD screen. The watch works in 24 hour mode and the correct number that should be displayed is the actual hour for the set time zone. If this number is not correct, press S1 until the desired time is reached.
5. Press S2 again to enter the minute set mode. In this mode the letter M will be displayed and a number will be blinking on the LCD screen. Press S1 to enter your desired minute.
6. Press S2 again to enter the second re-calibration mode (see explanation below)
7. Press S2 again to exit the day/hour/minute/second set mode. The word WAIT will show on the LCD screen and the watch will reset itself to the desired time.

Second-hand shifting

Your watch is a very delicate and precise instrument. Although uncommon, sometimes hard knocks or vibrations can cause the hands to move irregularly, and therefore display the incorrect time, although the internal clock is keeping accurate time. You may notice this if when setting the LCD to “Second” reading and found that it is not synchronized with the Analog Second-hand. This shows the reference point of the Analog Second-hand has changed and the watch needs to be calibrated.

Calibrate the shifted second-hand:

STEP 1: Make sure the watch is running normally.

STEP 2: Press and hold S2 (the lower right button) for about 3 seconds until the LCD displays a city name (3 digits city code), then release the button

STEP 3: Press and hold S2 until the LCD shows a blinking CAL (represents Calibrate the Second-hand) and then release the button

STEP 4: Press and hold this button (S2) again until the CAL stops blinking and at the same time the second-hand pauses to a new position, then release the button

STEP 5: The second-hand may stop on the following 3 positions namely A, B or C.
Check and perform second-hand calibration action according to A, B or C.

Remark:

If you cannot calibrate the shifted second-hand successfully in one time, you need to repeat Step 1 to 5 once or several times until the second-hand is calibrated.

A. If the second-hand pause between 12 to 6 o'clock

- Press **S1** once at a time until the second-hand points exactly at **6 o'clock** position
- Press **S2** to confirm or the watch will confirm by itself after 1 minute. After confirmation, the watch will stop for a while. Wait until the watch resumes running.

B. If the second-hand stops between 6 to 12 o'clock

- Press **S2** and then wait for the watch to resume running.

After the watch resumes running, repeat Step 1 to 5.

C. If the second-hand stops exactly at 6 o'clock

- Press and release **S2** (lower button) once and wait for the watch to resume running.

Check the watch hand-position again:

After the watch runs again, check the second-hand position to make sure it is correct. Press **S2** once after another until the LCD window shows the "Second" reading. Check to see if the LCD "Second" reading and the analog Second-hand are synchronized. If they are synchronized then you have successfully done the re-calibration work. If not, repeat Step 1 to 5 until the second-hand is calibrated.

Watch Not Receiving Time Signal

Reasons for not being able to receive the Time Signal include:

- Being outside of the radio signal area
- Being in a built up area (tall buildings, towers, basements, etc)
- Metal objects blocking the radio signal
- Interference by a computer monitor or TV

Ensure the watch is left by a window, as this gives the best reception. You may have to try different windows in the house to see which is best. You can test this using reception status test described earlier. Please note that reception is always better at night.

If your watch is unable to make contact with the radio signal, it will continue to function as a standard watch. The time will then be corrected the next time your watch receives the time signal.

Second Hand running non-stop

When battery is low, the Second Hand may run non-stop. Change the battery of the watch after it comes to a stop.

Hour is wrong while Minute is right

If your Time Zone setting is incorrect, your watch will show you the wrong time. You need to manually set it to the right Time Zone. Go to “Time Zone Setting” for details.

Hour and Minute are wrong

Need to reset all hands to 12 o’clock. Go to “Reset the watch” for details.

Reset the Watch

1. Remove the back of the watch and carefully remove the battery. This should be done by a trained watch technician or jeweler. Re-insert the battery. The LCD will flash “SET TO 12”.
2. Press and hold S1 for more than 10 seconds until the second hand begins fast spinning.
3. You can stop the fast spinning by releasing S1 anywhere you want.
4. To restart the fast running second-hand, press and hold S1 for 3 seconds
5. Stop the fast moving second-hand by releasing S1 before all hands reach the 12 o'clock position. We recommend stopping at 11:59:00 and continuing manually.
6. Press S1, one short press at a time to incrementally forward the hands to point exactly at 12 o’clock. Should you accidentally pass 12:00:00, the procedure must be started again.
7. When all hands are aligned at the 12 o’clock position (12:00:00), **PUSH S2 (the lower button)** to confirm.
8. After confirmation, the LCD display shows “LON”. This is the pre-set Time Zone of the watch – LONDON, UK.
9. Set your Time Zone by pressing S1.
10. Press-release S2 to confirm.
11. Then, the watch will initiate a signal reception automatically. Put the watch nearby a window and let it rest face-down manner (make sure a metal band doesn’t touch the case-back of the watch).
12. The watch will run to the right time if the reception is successful or start to run at around 12 o’clock if the reception has failed.
13. If the watch cannot pick up signal in daytime after the Reset, leave it near a window overnight to get signal, as signal is always stronger at night.

Battery Change

You need to change a new battery if the watch stops, the LCD display becomes dim or the watch does not function properly.

Battery type

This watch uses a CR2025 type battery, trained jewellers or watch specialists should fit new batteries to avoid any damage to the watch.

Open the watch at the back. Carefully remove the bottom, make sure you are not losing the waterproof seal.

Pick up the battery spring.

Take out the battery and insert a new one (watch the polarity!”+”up).

Now push the battery spring down.

Before you put the case-back on again, make sure the waterproof seal is correctly in place.

After Battery replacement, you need to:

1. Align all hands at 12 o'clock
2. Put the watch upside down to a location (window) where reception is possible for 24 to 48 hours to allow the watch to receive radio signal to set the correct time.
3. **The watch will look for signal once every hour for 24 hours to get signal. If no signal was received after 24 hours, the watch will only get signal starting at 3am according to the internal time of the watch.**
4. **If the watch is able to get signal during the 24 hours, the watch will return to normal signal reception starting at 3am according to the internal time of the watch.**

1. Align all 2 hands at 12 o'clock

The watch does not run and the LCD display is blinking showing “SET TO 12” after a new battery is replaced until the following initiation has been done.

Now turn the watch to set the hands and initialize the electronic

All hands (hour and minute hands) have to be moved and aligned at the 12 o'clock position (12:00:00) for initializing.

1. Press and hold S1 (the right top button) to set the second-hand fast running.
2. You can stop the high speed running watch hand by a press of S1 anywhere you want
3. To restart the fast running second-hand, press and holding S1 for 3 seconds
4. Stop the fast moving second-hand by pressing S1 before all hands reach the 12 o'clock position. We recommend stopping at 11:59:00 and continuing manually.
5. Press S1, one short press at a time to incrementally forward the hands to point exactly at 12 o'clock. Should you accidentally pass 12:00:00, the procedure must be started again.
6. When all hands are aligned at the 12 o'clock position (12:00:00), **PUSH S2 (the right lower button)** to confirm.
5. After confirmation, the LCD display shows “LON”. This is the pre-set Time Zone of the watch – LONDON, UK.

6. Set your Time Zone by S1
7. Press S2 to confirm
8. Then, the watch will initiate a signal reception automatically. Put the watch nearby a window and let it rest face-down (make sure a metal band doesn't touch the case-back of the watch).
9. The watch will run to the right time if the reception is successful or start to run at around 12 o'clock if the reception has failed.
10. If the watch cannot pick up signal in daytime after the battery replacement, leave it near a window overnight to get signal, as signal is always stronger at night.