CASIO®

JW-200DQ
MS-200DQ

User's Guide

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- In this User's Guide, some key notations are shown in simplified form.

  → [TAX+] or [TAX RATE]

Safety Precautions

Thank you for purchasing this CASIO product.
Be sure to read the “Safety Precautions” before using this product to ensure that you use it correctly.

Danger
Indicates something that creates the major risk of death or serious personal injury.

■ Button Type and Coin Type Battery Precautions

Take care to ensure that a battery will not be swallowed accidentally.
Particular care is required to keep batteries away from children.

Should a battery be swallowed accidentally or if there is a possibility that a battery has been swallowed, immediately contact a physician.
Swallowing a battery can result in chemical burns, mucosal tissue penetration, and other serious problems that create the risk of death.

Warning
Indicates something that creates the risk of death or serious personal injury.

■ Display Screen

Do not press the LCD or subject it to strong impact.

Doing so can cause the LCD glass to crack, creating the risk of personal injury.

Should the LCD become cracked, never touch any of the liquid inside.

LCD liquid getting on the skin creates the risk of skin irritation.
Should LCD liquid get into your mouth, immediately rinse your mouth out and contact your physician.
Should LCD liquid get in your eyes or on your skin, rinse with clean water and then contact your physician.

■ Battery Precautions

Should fluid leaking from a battery get on your skin or clothing, immediately rinse it off with clean water.

Battery fluid getting into the eyes creates the risk of eyesight loss, etc. Rinse the eyes and then immediately contact a physician.

Caution

Indicates something that creates the risk of minor personal injury or physical damage.

Observe the precautions below. Failure to do so can cause a battery to rupture, creating the risk of fire, personal injury, and soiling of nearby objects by leaking fluid.

- Do not try to take a battery apart and never allow a battery to become shorted.
- Do not charge a non-rechargeable battery.
- Do not expose a battery to heat or throw it into fire.
- Use only the specified type of battery.
- Load a battery with its poles (plus (+) and minus (–)) facing correctly.
- Replace the battery as soon as possible after it goes dead.



Battery Precautions

● **Observe the precautions below. Failure to do so can cause the battery to explode or leak flammable liquid or gas.**

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do not dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Use only the type of battery that is specified for this product.
- Do not burn a battery or dispose of it in an incinerator, or by mechanical crushing or cutting.
- Do not subject a battery to excessively high or low temperatures during use, storage, or transport.
- Do not subject a battery to excessively low barometric pressure during use, storage, or transport.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

Important Precautions

- If you suspect that the calculator is operating abnormally due to static electrical charge or some other problem, press AC to restore normal operation.
- Avoid dropping the calculator and otherwise subjecting it to severe impact.
- Never try to take the calculator apart.
- Never bend or twist the case.
- Wipe the unit with a soft, dry cloth to clean it.
- Replacing the battery or blocking the calculator from sunlight while battery power is low may cause your tax rate setting or memory contents to be changed or lost. Replace the battery as soon as possible when it becomes weak and correct the rate setting, if necessary.
- The contents of these instructions are subject to change without notice.
- CASIO COMPUTER CO., LTD. assumes no responsibility for any loss or claims by third parties which may arise from the use of this product.

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Power Supply

Two-Way Power System provides power even in complete darkness.

- Even if you do not use the calculator, you should replace the battery at least once every seven years.
- The replace battery icon () will appear in the lower right corner of the display when battery power is low (JW-200DQ).
- If the display becomes dim and difficult to read, or if nothing appears on the display when you press AC (especially when lighting is dim), you probably need to have the battery replaced.
- The battery that comes with this unit discharges slightly during shipment and storage. Because of this, it may require replacement sooner than the normal expected battery life.

■ Auto Power Off Function

Auto power off: Approximately 6 minutes after last key operation

- If the Auto Power Off function turns off power, press AC to restore power.

Basic Calculations

		
	"F"*1 **AC**	**0.**
6 ÷ 3 × 5 + 2.4 – 1 = 11.4	**6 ÷ 3 × 5 + 2.4 – 1 =**	**11.4**
2 × (– 3) = – 6	**2 × 3 +/– =**	

*1 F CUT 5/4

 (JW-200DQ)

(JW-200DQ)

5 ÷ 3 = 1.66666666…	**"F"**	**5 ÷ 3 =**	**1.66666666...**
	"CUT, 2"*2	**5 ÷ 3 =**	**1.66**
	"5/4, 2"	**5 ÷ 3 =**	**1.67**

*2 4 3 2 1 0 ADD2

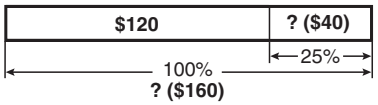
 (JW-200DQ)

(JW-200DQ)

$ 1.23	**"CUT, ADD2"**	**123 +**	**1.23**
3.21		**321 –**	**4.44**
– 1.11		**111 +**	**3.33**
2.00		**2 . =**	**5.33**
$ 5.33			

12 + 23 = 35	**"F"**	**23 + + 12 =**	**K**	**35.**
45 + 23 = 68		**45 =**	**K**	**68.**
7 – 5 = 2		**5 – – 7 =**	**K**	**2.**
2 – 5 = – 3		**2 =**	**K**	**– 3.**
2 × 12 = 24		**12 × × 2 =**	**K**	**24.**
4 × 12 = 48		**4 =**	**K**	**48.**
45 ÷ 9 = 5		**9 ÷ ÷ 45 =**	**K**	**5.**
72 ÷ 9 = 8		**72 =**	**K**	**8.**
$(2.3)^4$ = 27.9841		**2.3 × × = = =**	**K**	**27.9841**

$\sqrt{4} \times 5 = 10$	**"F"**	**4** √ **×** **5** **=**	**10.**

200 × 5% = 10	**"F"**	**200** **×** **5** **%**	**10.**
100 + (100 × 5%) = 105	**"F"**	**100** **×** **5** **%** **+**	**105.**
500 – (500 × 20%) = 400	**"F"**	**500** **×** **20** **%** **–**	**400.**
30 = 60 × ?% ? = 50	**"F"**	**30** **÷** **60** **%**	**50.**
12 = 10 + (10 × ?%) ? = 20	**"F"**	**12** **–** **10** **%**	**20.**
	**"F"**	**120** **+** **25** **%** **–**	**160.** **40.**

8 × 9 = 72	**"F"**	**MC** **8** **×** **9** **M+**	**M**	**72.**
–) 5 × 6 = 30		**5** **×** **6** **M–**	**M**	**30.**
2 × 3 = 6		**2** **×** **3** **M+**	**M**	**6.**
48		**MR**	**M**	**48.**

(JW-200DQ)

5 × 6 = 30	**"F"**	**AC** **5** **×** **6** **=**	**GT**	**30.**
2 × 8 = 16		**2** **×** **8** **=**	**GT**	**16.**
46		**GT** *3	**GT**	**46.**
12 ÷ 2 = 6	**"F"**	**AC** **MC** **12** **M+** **÷** **2** **=**	**GT M**	**6.**
12 ÷ 5 = 2.4		**MR** **÷** **5** **=**	**GT M**	**2.4**
12 ÷ 8 = 1.5		**MR** **÷** **8** **=**	**GT M**	**1.5**
9.9		**GT**	**GT M**	**9.9**
7.8 × 89 = 694.2	**"F"**	**AC** **MC** **7.8** **M+** **×** **89** **=**	**GT M**	**694.2**
4.56 × 23 = 104.88		**4.56** **M+** **×** **23** **=**	**GT M**	**104.88**
12.36 799.08		**MR**	**GT M**	**12.36**
		GT	**GT M**	**799.08**

*3 **GT** recalls the value stored (accumulated) in grand total memory.

2 + ~~3~~ = 6 ④	**"F"**	**2 + 3 C 4 =**	**6.**
2 ~~+~~ 7 = –5 ⊖		**2 + − 7 =**	**–5.**
5 + 7 ~~+~~ = 12		**5 + 77 ▶ =**	**12.**

- "E" (Error) will appear if the calculation result exceeds the upper calculation limit of the calculator. If this happens, press AC.
- "E" (Error) will appear if the integer part of the value stored in the independent memory or grand total memory (JW-200DQ) exceeds the upper calculation limit of the calculator. (In this case, "0." will be displayed as the calculation result.) If this happens, press AC.
- The value displayed when a calculation error occurs is a rough approximate value.
  Example: If 1.23 is displayed along with "E", it indicates a value of approximately 1.23×10^{12}.

■ Clearing Calculations

- To clear the calculator except for independent memory and rate settings, press AC.
- To clear independent memory only, press MC.

Tax Calculations

• To set a tax rate

Example: Tax rate = 5%

[AC] [RATE SET] (Hold down until TAX and % appears.) **5** [RATE SET]



- You can check the currently set tax rate by pressing [AC] and then [TAX RATE].

• Tax rate = 5%

$150*1 → ???*2 *3

"F"

[AC] **150** [TAX+]



$105*2 → ???*1 *3

"F"

[AC] **105** [TAX–]



*1 Price-less-tax

*2 Price-plus-tax

*3 Tax

Time Calculations (JW-200DQ)

Hours (H) input: 7 digits
Minutes (M)/Seconds (S) input: 0 to 99. Values greater than 59 are automatically adjusted by adding to the hours/minutes.
Time calculation range: –9999999 hours 59 minutes 59 seconds to 9999999 hours 59 minutes 59 seconds

Important! Time calculations are performed internally using decimal values.

12H30M45S → 12.???

"F"	AC 12 H/M/S 30 H/M/S 45 H/M/S	12-30'45"
	H/M/S	12.5125
	H/M/S	12-30'45"

12.3456 → ?H?M?S

"F"	AC 12.3456	12.3456
	H/M/S	12-20'44"
	H/M/S	12.3456

72S → ?M?S

"F"	AC 0 H/M/S H/M/S 72 H/M/S	0-01'12"

350M → ?H?M

"F"	AC 350 ÷ 60 = H/M/S	5-50'00"

10H20M30S
+) 8H40M25S
19H00M55S

"F"	AC 10 H/M/S 20 H/M/S 30 H/M/S + 8 H/M/S 40 H/M/S 25 H/M/S =	19-00'55"

2H30M40S
–) 1H00M30S **“F”** AC **2** H/M/S **30** H/M/S **40** H/M/S −
1H30M10S **1** H/M/S H/M/S **30** H/M/S =

1-30'10"

$9.00 × 7.5H = $??.??

“F” AC **9** × **7** H/M/S **30** H/M/S H/M/S =

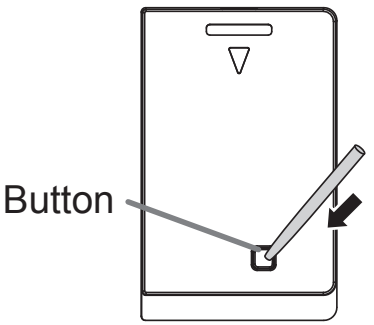
67.5

Specifications

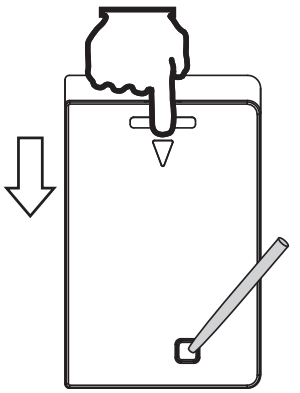
Power Supply: Two-Way Power System, with solar cell and one button type battery (CR2025)
Battery Life: Approximately 7 years (1 hour operation per day)
Operating Temperature: 0°C to 40°C (32°F to 104°F)
Dimensions (H) × (W) × (D):
JW-200DQ: 20.4×109×182 mm ($^{13}/_{16}$″×$4^{5}/_{16}$″×$7^{3}/_{16}$″)
MS-200DQ: 18.8×101×154.5 mm ($^{3}/_{4}$″×4″×$6^{1}/_{16}$″)
Approximate weight (including battery):
JW-200DQ: 193 g (6.8 oz) (White, Green)
196 g (6.9 oz) (Black, Gold, Blue)
MS-200DQ: 130 g (4.6 oz) (White, Green)
133 g (4.7 oz) (Black, Gold, Blue)

Battery Replacement

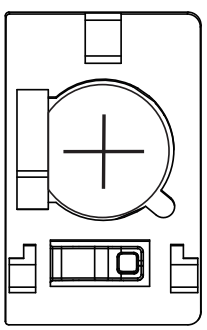
1. Press the button for the battery cover on the bottom of the calculator using an object with a thin tip.
   - Do not use an object with a breakable or pointed tip.
   - Do not press too hard.



2. While holding down the button, press your finger on the area with the battery cover mark and slide in the direction of the arrow.



3. Remove the battery cover and take out the old battery.



4. Insert the new battery with the (+) side facing up (visible to you).
5. Replace the battery cover in its original position.

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