

AURORA**MODEL: HC102****USER MANUAL****PRECAUTIONS**

- Do not expose the machine to water, direct sunlight, extremely hot or cold temperatures or dusty environments.
- Do not drop the machine or subject it to heavy impact.
- Do not twist or bend the calculator.
- Use a soft cloth to clean the machine. Do not use detergents.

SPECIFICATIONS

◆ Display:	10 x 2 lines LCD
◆ Power supply:	Solar cell and Alkaline manganese battery (1.5V --- DC LR44 x1)
◆ Automatic Power-off:	Approx. 7 min.
◆ Operating temperature:	0 °C ~ 40 °C (32°F ~ 104°F)
◆ Dimensions:	128x79x14mm
◆ Weight:	Approx.85g (battery included)

FEATURES

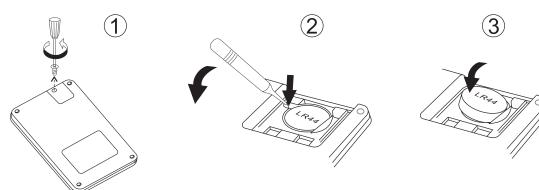
- 2 line display shows calculation and answer
- Division Remainder function
- Mathematically correct order of operations
- Brackets function
- Calculation editing function
- Slide-on case

POWER SUPPLY**1. When to replace battery:**

- Dim figures on the display of the calculator indicate that battery power is low. Continued use of the calculator when the battery is low can result in improper operation.
- If the ON key does not work after auto shut-off, replace the battery.

2. Replacement procedure:

- Remove the screw and the cover.
- Use a ballpoint pen or similar pointed tool to pry out the old battery.
- Place the new battery into the machine with positive pole upward.
- Replace the cover and screw.

**CALCULATION EXAMPLE**

Example	Key operations	Display
▼ Correction 3×4=12	[ON] (ON key turns the calculator on, resets and clears all information ready for the next calculation.) 3 [×] 6 [DEL] 4 [=]	- 0. 3×4= 12.
5×7=35	5 [÷] [DEL] [×] 7 [=]	5×7= 35.
5×12=60	5 [×] 1234 [DEL] [DEL] [=]	5×12= 60.
20×1.3=26	20 [×] 1.13 [◀] [◀] [DEL] [=]	20×1.3= 26.
▼ Mixed 32+180-754= -542	32 [+] 180 [-] 754 [=]	32+180-754= -542.
(-125+3)÷8= -15.25	(-) 125 [+] 3 [÷] 8 [=]	(-125+3)÷8= -15.25
60×3÷5+1-8= 29	60 [×] 3 [÷] 5 [+] 1 [-] 8 [=]	60×3÷5+1-8= 29.
▼ Percentage 400×10% = 40	400 [×] 10 [%] [=]	400×10% = 40.
(8÷3.2)×100= 250	8 [÷] 3.2 [%] [=]	8÷3.2% = 250.
400+(400×10%)= 440	400 [+] (400 [×] 10 %) [=]	400+(400×10%)= 440.
5000-(5000×20%)= 4000	5000 [-] (5000 [×] 20 %) [=]	5000-(5000×20%)= 4'000.
▼ Memory 25×5= 125 -) 84÷3= 28 +) 68+17= 85	[MC] [=] 25 [×] 5 [M+] 84 [÷] 3 [M-] 68 [+] 17 [M+] [MR] [=] [MC]	25×5M+ M 125. 84÷3M- M 28. 68+17M+ M 85. MR= M 182. MR= M 182.
$\frac{1}{2} - \frac{1}{4} = 0.25$	1 [÷] 2 [M+] 1 [÷] 4 [M-] [MR] [=] [MC]	1÷2M+ M 0.5 1÷4M- M 0.25 MR= M 0.25 MR= M 0.25
▼ Square Root $\sqrt{100} = 10$	$\sqrt{ } 100 [=]$	$\sqrt{ } 100 = 10.$
$\sqrt{1.44} = 1.2$	$\sqrt{ } 1.44 [=]$	$\sqrt{ } 1.44 = 1.2$
$\sqrt{-20} = E$	$\sqrt{ } (-) 20 [=]$	$\sqrt{ } -20 = E 0.$
▼ Square $5^2 = 25$	$5 [x^2] [=]$	$5^2 = 25.$
$(1.2)^2 = 1.44$	$1.2 [x^2] [=]$	$1.2^2 = 1.44$

Example	Key operations	Display
▼ Quotient and remainder 16÷R3= Q=5, R=1	16 [÷R] 3 [=]	16÷R3 0: R=1 5.
23.45÷R9= Q=2, R=5.45	23.45 [÷R] 9 [=]	23.45÷R9 0: R=5.45 2.
▼ () 22×(5+6)= 242	22 [×] (5 [+] 6) [=]	22×(5+6)= 242.
100÷(5×4)= 5	100 [÷] (5 [×] 4) [=]	100÷(5×4)= 5.
▼ Ans 12+34=46 (Ans = 46) ×56=2'576	12 [+] 34 [=] [×] 56 [=]	12+34= 46. Ans×56= 46.
÷2=1'288	[÷] 2 [=]	Ans÷56= 2'576. Ans÷2= 2'576.
+ 100=1'388	[+] 100 [=]	Ans÷2= 1'288. Ans+100= 1'388.
▼ Error 1) 123456789×78900= E 974.0740652 (Overflow error)	123456789 [×] 78900 [=]	123456789×78900= E 974.0740652
2) 6÷0= E 0 (Math error)	6 [÷] 0 [=]	6÷0= E 0.
3) 2+= ERROR (Syntax error)	2 [+] [=]	2+= ERROR
4) Stack overflow (Stack error)	[] 1 [+] 1 [×] 2 [+] 1 [÷] 3 [+] 1 [×] 4 [+] 1 [×] 5 [+] 1 [×] 6 [+] 1 [×] 7 [+] 1 [×] 8 [+] 1 [×] 1 [=]	Stack overflow (Stack error)

ORDER OF OPERATIONS

1st Priority	Calculation within parentheses ().
2nd	% , X ²
3rd	(-) negative sign
4th	Multiplication where sign is omitted. For example: If Memory=2, 2÷5MR=0.2
5th	$\sqrt{ }$
6th	X , ÷ , ÷R
7th	+, -
8th	=, M+, M-