

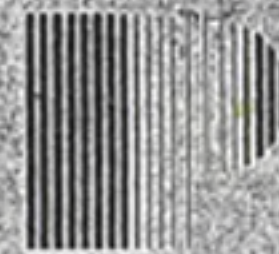
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Pulsar Quartz

INSTRUCTIONS

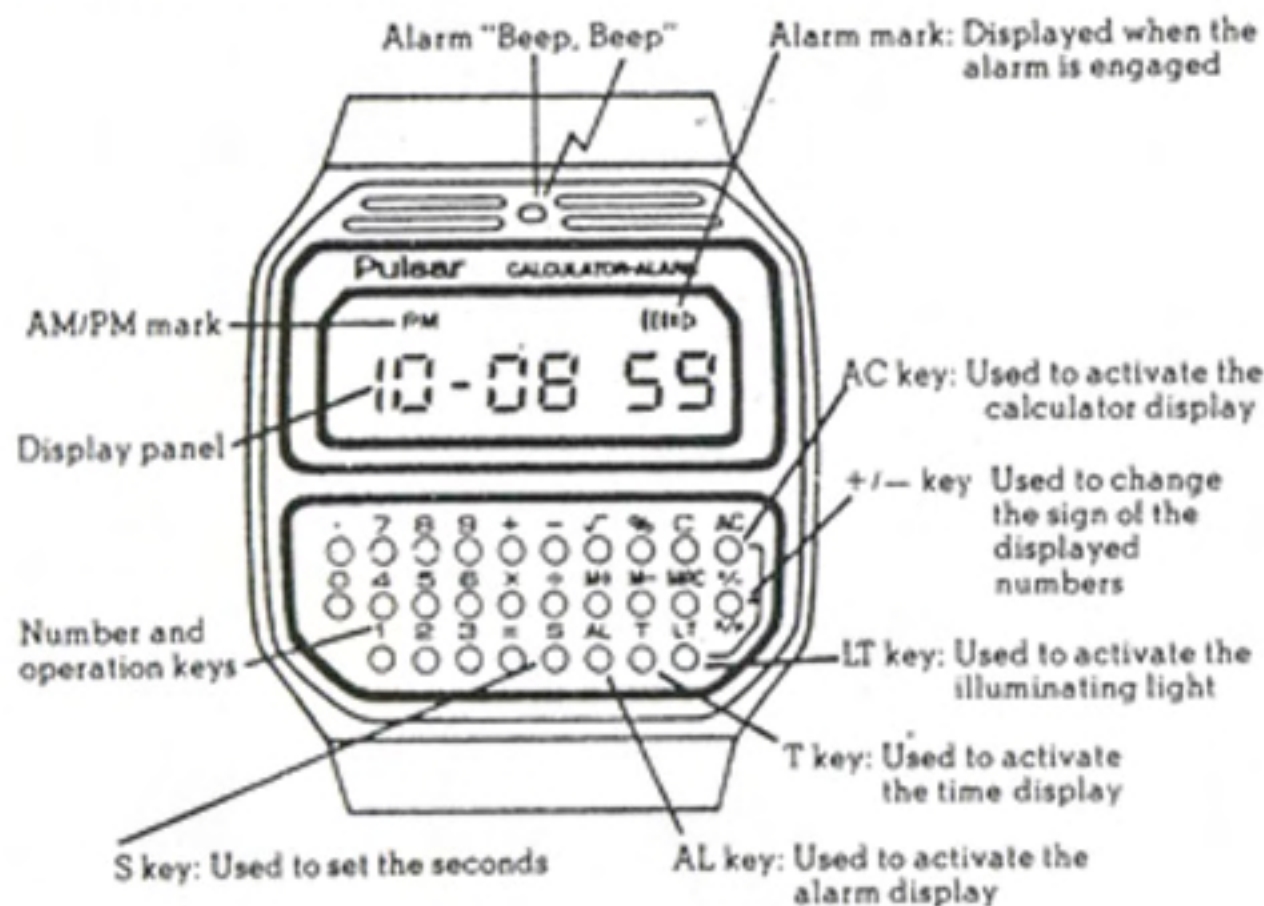
Pulsar LC Digital Quartz Calculator Alarm
Calculateur Pulsar Quartz/CL avec Sonnerie

Cal. No. Y739
Series/Serie JZ

CHARACTERISTICS

- Time display: Hour (12 hour indication), minute, second, and AM/PM
- Calculator display: Addition, subtraction, multiplication, division, square root calculation, percentage, and calculation with memory
- Alarm display: Hour, minute, and AM/PM. Can be set to operate at any desired hour and minute
- Water resistant: When "water resistant" is shown on the back of your watch case, the watch is water resistant
- Illuminating light: Illuminates the display in the dark
- Battery: Use two miniature batteries U.C.C. 389, or Maxell SR1130W, or TOSHIBA WG-10
- Stylus: A stylus to facilitate the button operation is contained in the buckle portion of the bracelet

DISPLAY AND BUTTON OPERATION



HOW TO SET THE ALARM TIME

The alarm time setting is made in the calculator display. If the watch is in the time mode, depress AC key to pass to the calculator mode. If the watch is already in the calculator mode, depress AC key to reset the digits to "0".

How to set the alarm time to 6:45 P.M.

Key Operation	Display	Key Operation	Display
8	6	T	6- AM
4	6-4	5	6-45 AM
+/-	6-45	AL	6-45 AL

"AM" mark also is displayed.

"AM" mark is replaced by "PM" mark. *

"AL" mark is displayed automatically.

*It is only necessary to depress this button if your setting is for "PM" hours.

Depress T key to return to the time display.

NOTE: When a number key is depressed by mistake and an impossible time is displayed, the "E" (error) mark is displayed. When the "E" (error) mark is displayed, depress the AC key to reset the digits to "0"-- then follow the same procedure as shown above.

HOW TO STOP THE ALARM

The alarm can be stopped by depressing AL key. (If AL key is not depressed, the alarm will ring for 1 minute and stop.)

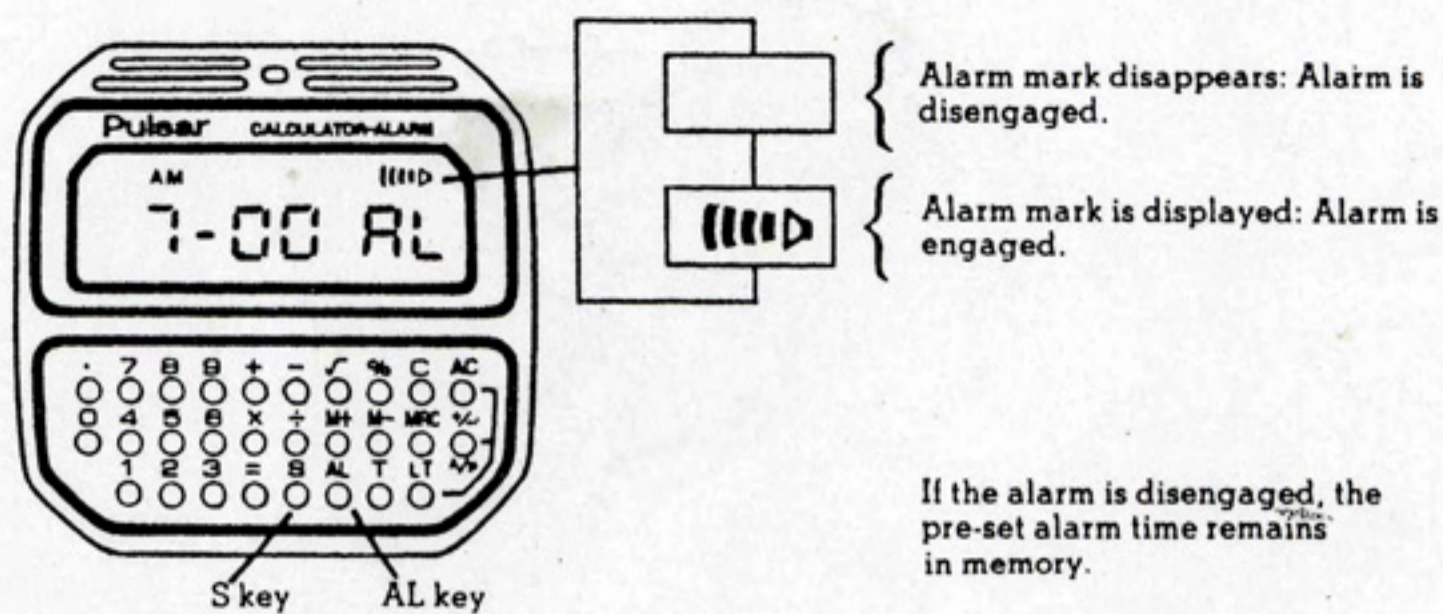
NOTE:

- If the alarm is stopped in the calculator function, or when the alarm stops after it rings for 1 minute, the contents stored in the memory register will be cleared. Otherwise, any contents in the memory register will remain in the memory register.

- In the calculator display, when an operations key is depressed by mistake, all the segments may be displayed. When all the segments are displayed, depress AC key.

HOW TO ENGAGE/DISENGAGE THE ALARM

In the alarm display, depress S key and the alarm is either engaged or disengaged.



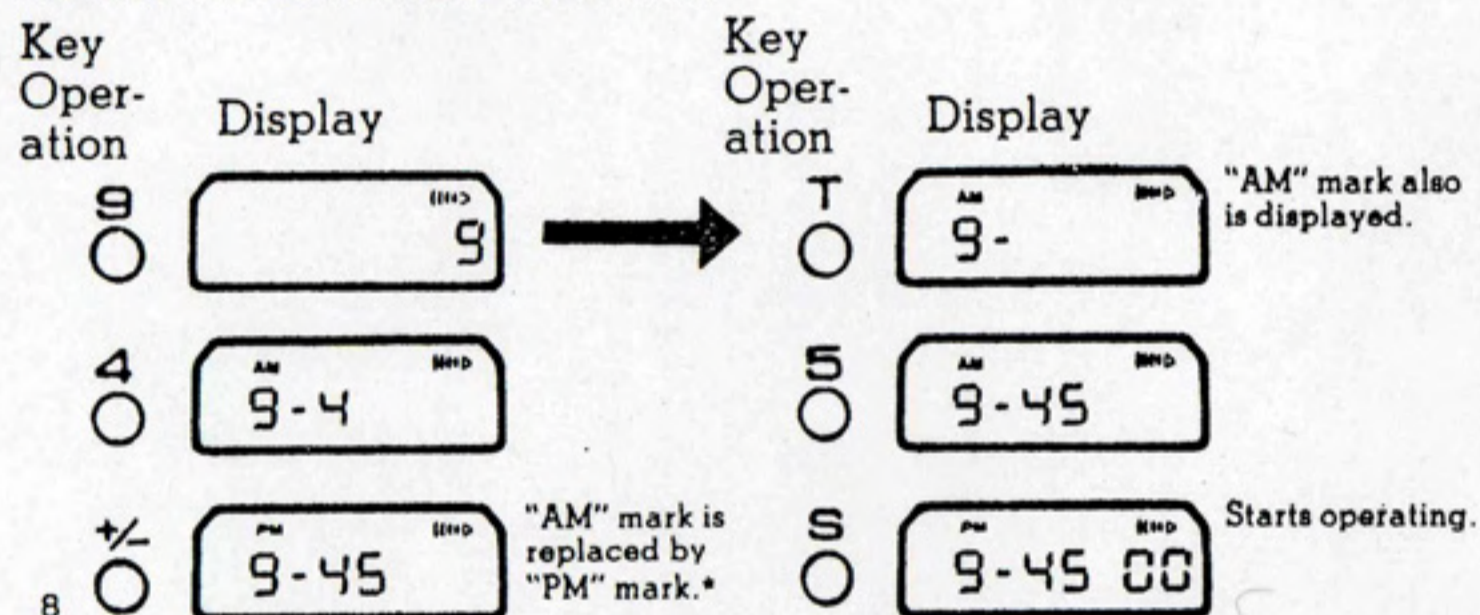
ALARM TEST

In the alarm time display, depress and hold AL key and the alarm will ring while the key is depressed.

HOW TO SET THE TIME

In the time or calculator display, depress AC key to reset the digits to "0." The time setting is made in the calculator display. If the watch is in the calculator display, depress AC key to reset the digits to "0." If the watch is in the time display, depress AC key to pass to the calculator mode.

How to set the time to 9:45 P.M.



After the time setting is completed, the time display will automatically return.

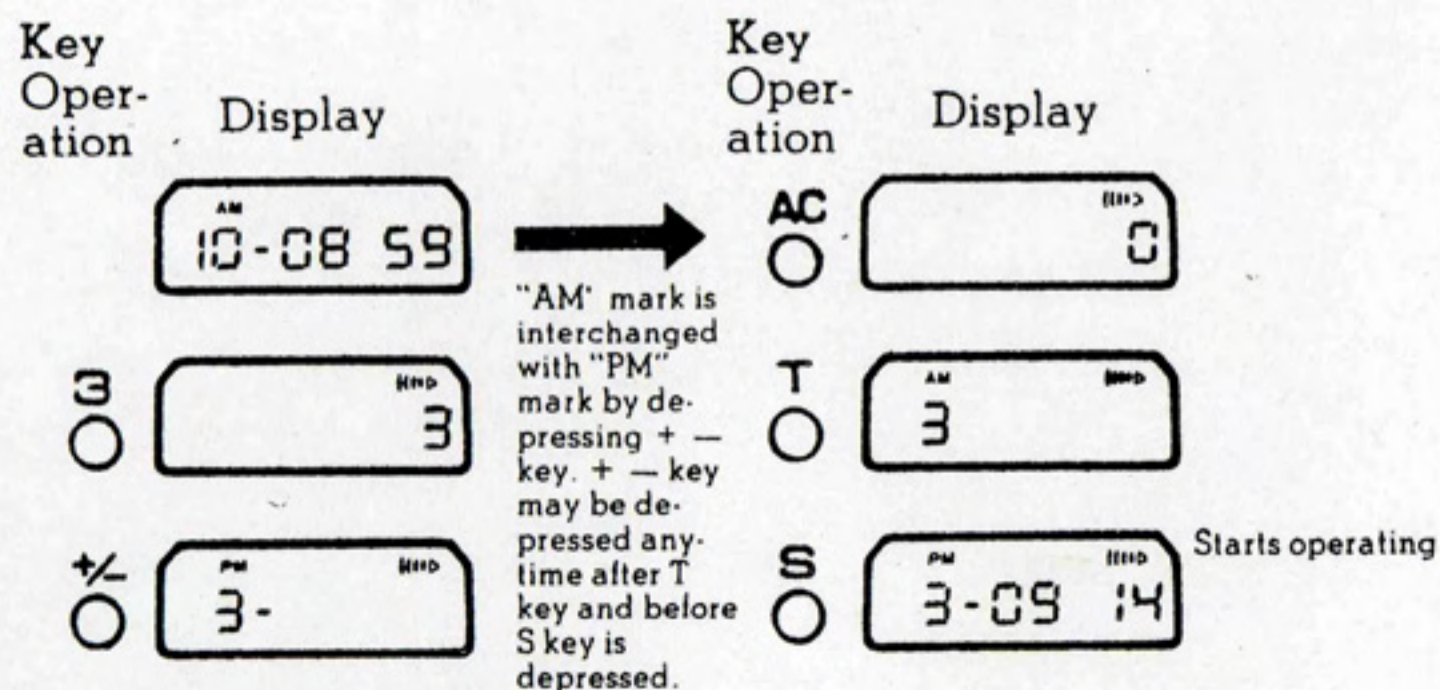
*It is only necessary to depress this button if your setting is for the "PM" hours.

NOTE: When a number key is depressed by mistake and an impossible time is displayed, the "E" (error) mark is displayed. When the "E" (error) mark is displayed, depress AC key and set correct digits.

HOW TO ADJUST THE TIME DIFFERENTIAL

When you are in a different time zone, use the following procedures for adjusting the time differential.

How to change 10:08:59 A.M. to 3:08:59 P.M.

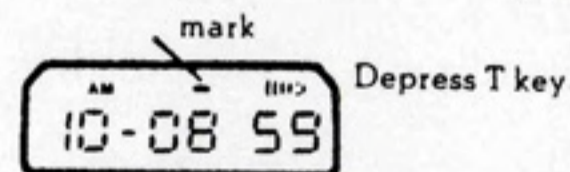


Only the hour digit is advanced and the minute and the second digits continue to advance.

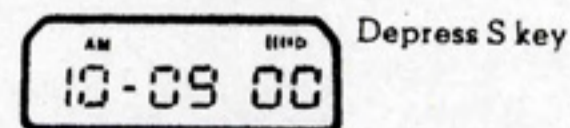
NOTE: When a number key is depressed by mistake and an impossible time is displayed, the "E" (error) mark is displayed. When the "E" (error) mark is displayed, depress AC key and set the correct digits.

HOW TO SET THE SECOND

In the time display, depress T key and the "-" mark is displayed.



Then depress S key in accordance with a time signal, and the seconds are reset to "00" and start immediately.*



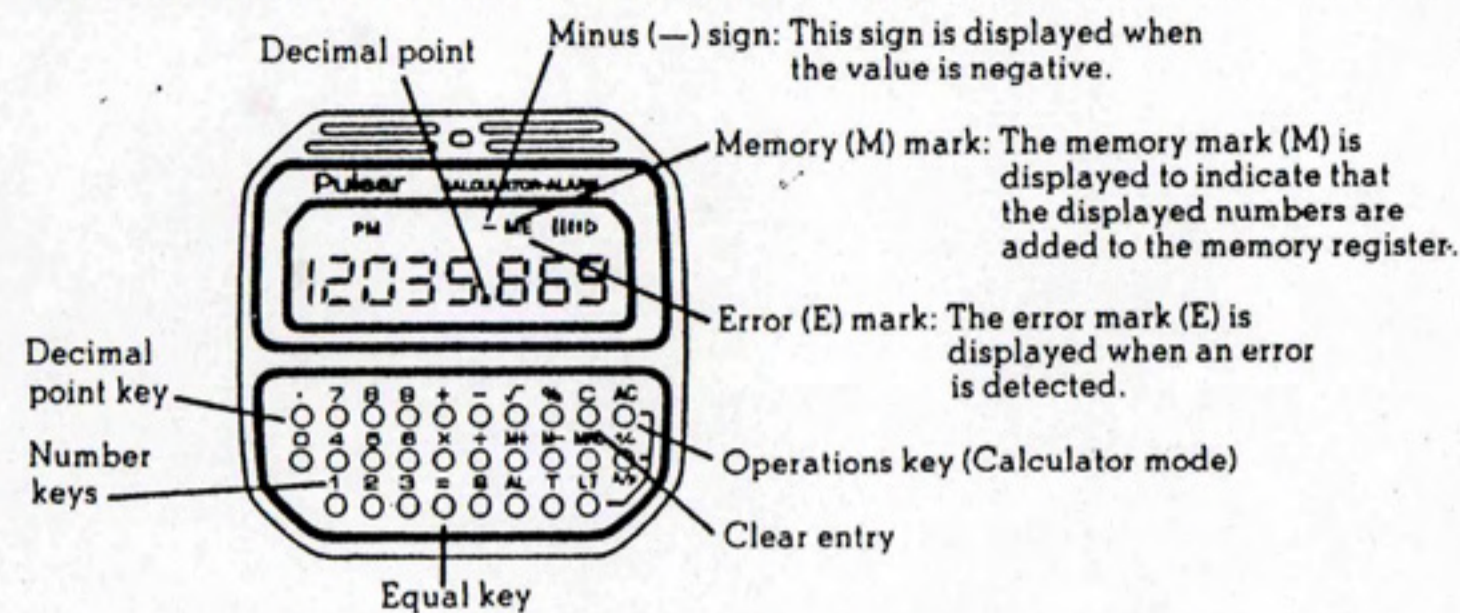
*When the seconds show any numbers from "30" to "59" and S key is depressed, one minute is added and the seconds are immediately reset to "00".

The "-" mark is displayed for 2 minutes.

NOTE: When the "-" mark is displayed the alarm time will not be displayed, and the alarm will not sound, if AL key is depressed.

HOW TO USE THE CALCULATOR

The calculator function is operated almost in the same manner as the ordinary desk-top electronic calculators. In the time display the calculator function is activated by pressing the AC button.



When the calculator display is changed to the time display, all the digits in the calculator display are cleared, and the display will return to "0". However, any contents stored by the memory

register will remain in the memory register if the display is changed to the time display. To return to the time display from the calculator mode, depress button "T". The watch will automatically return from the calculator to the time mode after 11 minutes.

HOW TO CALCULATE:

Operation	Example	Key Operation	Display
Addition, Subtraction, Multiplication, Division (Depress keys according to expression)	246 - 64.2 + 357	246 - 64.2 + 357 =	538.8
	975 x 4 ÷ 9	975 x 4 ÷ 9 =	433.3333
Constant Calculations	1. Successive multiplications	975 x 7 =	6825.
	with constant	975 x 6 =	5850.
	multiplier	1300 x 35% =	455.
	multiplier	1300 x 30% =	390. 13

Operation	Example	Key Operation	Display
2. Successive divisions by a constant divisor	86 ÷ 5	86 ÷ 5 =	17.2
	68 ÷ 5	68 =	13.6
	119 ÷ 250	119 ÷ 250%	47.6
	191 ÷ 250	191%	76.4
Raising Numbers to a Power	46 ²	46 x =	2116.
	3 ¹²	3 x =	9.
		=	27.
		x =	729.
		x =	531441.
Reciprocals	1 ÷ 4	4 ÷ =	0.25
	1 ÷ 4 ÷ 4	4 ÷ = =	0.0625
Extraction of Square Root	$\sqrt{25}$	25 $\sqrt{\quad}$	5.
	$\sqrt{2 \times 722}$	2 x 722 = $\sqrt{\quad}$	38.
Percentage	75% of 1,500	1500 x 75%	1125.
	What% of 50 is 30	30 ÷ 50%	60.

Operation	Example	Key Operation	Display
Addition and Discount %	6,500 with 12% added on	6500 x 12% +	7280.
	6,500 with 12% discount	6500 x 12% -	5720.
Calculations Using Memory	1. 42 + 5	42 + 5M +	47.M
	21 - 7	21 - 7M +	14.M
	32 x 3	32 x 3M +	96.M
	84 ÷ 5	84 ÷ 5M +	16.8M
	TOTAL	MRC	173.8M
On completion of a calculation using the memory function, depress MRC key twice to clear contents in memory, and depress AC key once to reset digits to "0".			
2. (8 x 5 ÷ 4) - (9 ÷ 3 x 4) = -2	8 x 5 ÷ 4M +		10.M
	9 ÷ 3 x 4M -		12.M
	MRC		2.M
3. $\sqrt{3^2 + 4^2}$	3 x M +		9.M
	4 x M +		16.M
	MRC		25.M
	$\sqrt{\quad}$		5.M 15

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Operation	Example	Key Operation	Display
Mixed Calculation	1. (9 + 2) x 17 ÷ 5 - 17 = 20.4	9 + 2 x 17 ÷ 5 - 17 =	20.4
	2. $\frac{6}{3.5 \times 8 + 2} = 0.2$	3.5 x 8 + 2 ÷ =	0.2
	3. $\sqrt{(21 - 18)^2 + (52 - 48)^2} = 5$	21 - 18 x M + 52 = 48 x M + MRC $\sqrt{\quad}$	5.M
Overflow Calculation	1,234,567 x 25,896 = 31,970,347,032	1234567 x 25896 =	3 19.70347E

Multiply the answer by 10⁸ (i.e. move the decimal point 8 places to the right and the round number is obtained.) After the round number is obtained, depress C key and E mark disappears. Proceed to the next calculation.

TO PRESERVE THE QUALITY OF YOUR WATCH

In order to keep your watch in perfect working order, we recommend you follow the various hints below:

Your watch contains a highly precise electronic circuit and crystal oscillator, and to maintain its high accuracy, you should not subject it to violent shocks or extreme temperature.

Do not depress any buttons when the watch is in water.

If the watch is exposed to salt water, rinse it in fresh water, and then wipe thoroughly dry.

BATTERY CHANGE

The miniature battery (U.C.C.389, or Maxell SR1130W, or TOSHIBA WG-10) which powers your watch should last approximately one year. However, because it is inserted at the factory, the actual life of the battery once in your possession may be shortened to less than one year.

NOTE:

If use of the light is more frequent than 5 times a day and the alarm is used more than once a day, the battery life may be shortened to less than the specified period.

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