Test if your calculator is genuine:

4 Press 1 Release (ES, ES PLUS, EX, CW)

Make sure you are in MathIO/Comp Mode, then press [ON].
Hold these buttons in this order: [1] [0] [−] [=]
Then release [1].

If the calculator is genuine, then:

- ES / ES PLUS / EX calculators should display 1cos(.
- CW calculators should display 1^2.

This test is **very accurate** for determining genuineness.

Precision Method (all MS, ES, ES PLUS, EX, CW)

Make sure you are in MathIO/Comp Mode, then press [ON].
Evaluate $\sin^{-1}(\cos^{-1}(\tan^{-1}(\tan(\cos(\sin(9.$

Check the result of the expression:

- Genuine original MS series displays 8.999998637
- Genuine CW series displays 9
- All other genuines should display 9.000000007

If your calculator is an original MS, subtract 8.99999 from the answer.
Else subtract 9 from the answer.

- Genuine original MS series: $8.63704_{10}{}^{-06}$
- Genuine CW series: $7.5528_{10}{}^{-18}$
- All other genuines: $7.33338_{10}{}^{-9}$

Batteries

Normally, Casio calculators use either AA, AAA, or LR44 batteries. One battery of one of these types has 1.5 volts.

Check the battery and voltage that the calculator uses in the power specification (usually found on the back of the calculator). Open it up, and if the battery and/or voltage does not match the specification (for example, a 3-volt battery is used, i.e. a CR2025 battery), it must be a fake.

Self-Test

https://gwe.42web.io/calcupedia/Calculator_self-test