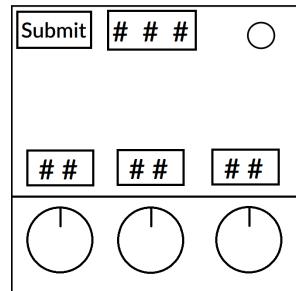


On the Subject of Digital Dials

Twist *Twist* *Twist* *Twist*.

- On the module, you will see 3 dials, each with a small screen above it, a larger screen displaying a 3 digit number, and a submit button on the top left.
- Each dial cycles from 0 – 9 with a 2 digit number displayed on the screen above it.
- The dials are read from left to right.
- Set each dial to the correct position and submit it at the correct time to disarm the module.
- Submitting the wrong combination and/or submitting it at the wrong time will cause it to strike.



Step 1: Initial Positions

Take the 3 digit number from the large screen and follow the steps below:

- A: Add the 1st digit of the Serial Number to the 1st digit.
- B: Add the 2nd digit of the Serial Number to the 2nd digit.
- C: Add the 3rd digit of the Serial Number to the 3rd digit. If the Serial Number doesn't have one, use the number of ports.
- D: Multiply all 3 numbers together and modulo by 1000
- E: If the number has less than 3 digits, add zeros to the front of the number until you have 3 digits.
- F: Set the 1st dial to the 1st digit.
- G: Set the 2nd dial to the 2nd digit.
- H: Set the 3rd dial to the 3rd digit.

Step 2: Final Positions

For each 2 digit number that is displayed on the screens currently, go to the corresponding table below for each screen.

Use the intersection of the 2 digits on the table to get a 1 digit number. Then add the initial position of the dial to this number, modulo 10.

Set each dial to the number it calculated. This is the final position of the dial.

Dial 1

	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9
0-	6	7	0	9	3	8	4	1	2	5
1-	0	2	9	1	8	7	6	4	3	5
2-	8	1	5	7	3	2	9	4	6	0
3-	2	0	4	8	9	5	6	3	1	7
4-	8	1	5	0	7	2	3	9	6	4
5-	4	1	5	8	3	7	6	2	0	9
6-	3	7	9	4	5	0	8	2	6	1
7-	8	2	1	7	5	4	6	9	3	0
8-	9	2	5	3	8	6	7	4	0	1
9-	5	6	2	7	9	3	8	0	4	1

Dial 2

	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9
0-	2	8	5	3	9	6	1	7	4	0
1-	4	5	6	1	0	7	2	9	8	3
2-	3	0	6	7	1	4	8	2	9	5
3-	1	8	6	0	4	5	3	9	2	7
4-	5	0	7	4	2	9	1	8	3	6
5-	9	8	0	1	5	7	6	4	2	3
6-	3	9	8	2	4	6	7	0	5	1
7-	5	3	1	9	8	0	2	7	6	4
8-	3	5	1	2	9	4	0	7	8	6
9-	9	1	0	6	8	3	5	4	7	2

Dial 3

	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9
0-	9	8	2	5	4	0	1	7	6	3
1-	7	5	2	0	6	1	8	4	9	3
2-	5	3	1	7	8	4	0	6	2	9
3-	0	8	7	2	9	5	3	1	6	4
4-	2	1	6	9	0	3	4	8	7	5
5-	8	5	0	4	3	6	1	2	7	9
6-	7	0	1	8	2	5	6	4	3	9
7-	4	6	1	7	2	8	9	3	5	0
8-	2	5	4	6	7	0	1	9	8	3
9-	1	2	5	3	8	9	4	0	6	7

Step 3: Submit Time

Follow the steps below to get the submit time:

- A: Take the new displayed numbers on the screens above the dials and multiply them together.
- B: Take the digital root of the number to get a single digit number (Add the digits together until the number becomes a single digit).
- C: Submit when the last seconds digit on the countdown timer is equal to this number.