KEEP TALKING and NOBODY EXPLODES

BOMB DEFUSAL MANUAL

Version 1
print with BG graphics!

Verification Code: 241

Revision 3

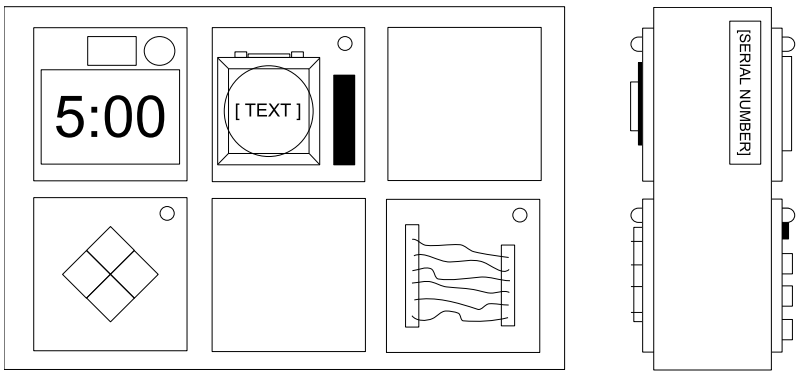
Welcome to the dangerous and challenging world of bomb defusing.

Study this manual carefully; you are the expert. In these pages you will find everything you need to know to defuse even the most insidious of bombs. And remember — One small oversight and it could all be over!

Defusing Bombs

A bomb will explode when its countdown timer reaches 0:00 or when too many strikes have been recorded. The only way to defuse a bomb is to disarm all of its modules before its countdown timer expires.

Example Bomb



Front Side

Modules

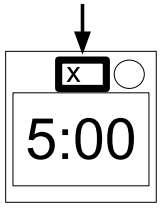
Each bomb will include up to 11 modules that must be disarmed. Each module is discrete and can be disarmed in any order.

Instructions for disarming modules can be found in Section 1. "Needy" modules present a special case and are described in Section 2.

Strikes

When the Defuser makes a mistake the bomb will record a strike which will be displayed on the indicator above the countdown timer. Bombs with a strike indicator will explode upon the third strike. The timer will begin to count down faster after a strike has been recorded.

Strike Indicator

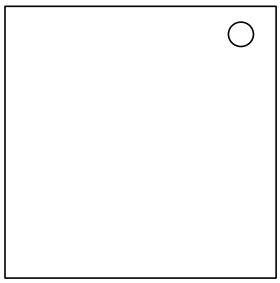


If no strike indicator is present above the countdown timer, the bomb will explode upon the first strike, leaving no room for error.

Gathering Information

Some disarming instructions will require specific information about the bomb, such as the serial number. This type of information can typically be found on the top, bottom, or sides of the bomb casing. See Appendix A, B, and C for identification instructions that will be useful in disarming certain modules.

Section 1: Modules



Modules can be identified by an LED in the top right corner.
When this LED is lit green the module has been disarmed.

All modules must be disarmed to defuse the bomb.

Batt #																								
Serial?																								
FRK																								
CAR																								
Parallel?																								
Vocal?																								

Batt #																								
Serial?																								
FRK																								
CAR																								
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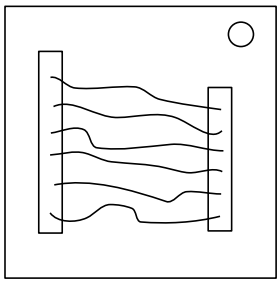
Vocal?																								

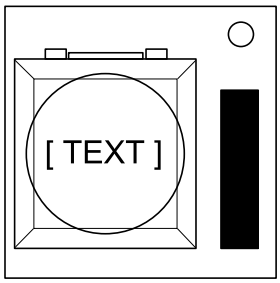
On the Subject of Wires



Wires are the lifeblood of electronics! Wait, no, electricity is the lifeblood. Wires are more like the arteries. The veins? No matter...

Conditions	Wire to cut
3 wires	
• No red wires?	✂ 2nd
• Last wire is white?	✂ last
• More than one blue wire?	✂ last blue
• Otherwise	✂ last
4 wires	
• More than one red wire and • last digit of the serial number is odd?	✂ last red
• Last wire is yellow and • no red wires?	✂ 1st
• Exactly one blue wire?	✂ 1st
• More than one yellow wire?	✂ last
• Otherwise	✂ 2nd
5 wires	
• Last wire is black and • last digit of the serial number is odd?	✂ 4th
• Exactly one red wire and • more than one yellow wire?	✂ 1st
• No black wires?	✂ 2nd
• Otherwise	✂ 1st
6 wires	
• No yellow wires and • last digit of the serial number is odd?	✂ 3rd
• Exactly one yellow wire and • more than one white wire?	✂ 4th
• No red wires?	✂ last
• Otherwise	✂ 4th

On the Subject of The Button



You might think that a button telling you to press it is pretty straightforward. That's the kind of thinking that gets people exploded.

See Appendix A for indicator identification reference.
See Appendix B for battery identification reference.

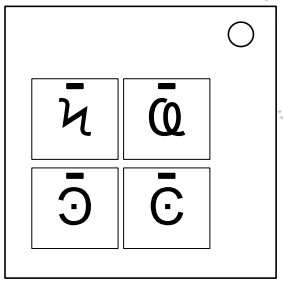
Follow these rules in the order they are listed. Perform the first action that applies:

Conditions	Press button and ...
• Is blue and labeled "Abort"?	hold
• 🔋+ and labeled "Detonate"?	release immediately
• white and lit indicator "CAR"?	hold
• 🔋🔋+ and a lit indicator "FRK"?	release immediately
• Is yellow?	hold
• Is red and labeled "Hold"?	release immediately
• None of the above?	hold

Strip Color	Digit in Countdown Timer
blue	4
yellow	5
otherwise	1

Always release when the timer shows 1,4 and 5 at the same time (5:41, 5:14, 4:51, 4:15, 1:54, 1:45)

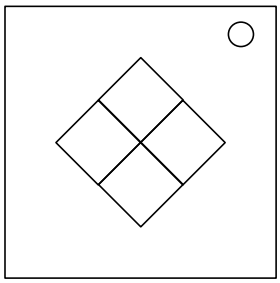
On the Subject of Keypads



I'm not sure what these symbols are, but I suspect they have something to do with occult.

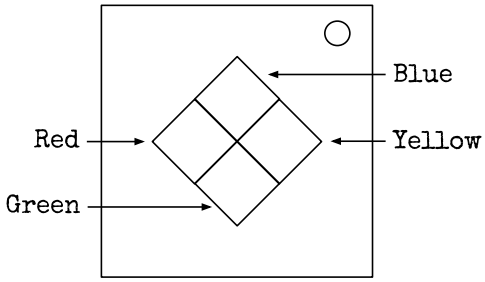
- Only one column below has all four of the symbols from the keypad.
- Press the four buttons in the order their symbols appear from top to bottom within that column.
- Dotted keys are unique and identify which column to use.

On the Subject of Simon Says



This is like one of those toys you played with as a kid where you have to match the pattern that appears, except this one is a knockoff that was probably purchased at a dollar store.

1. One of the four colored buttons will flash.
2. Using the correct table below, press the button with the corresponding color.
3. The original button will flash, followed by another. Repeat this sequence in order using the color mapping.
4. The sequence will lengthen by one each time you correctly enter a sequence until the module is disarmed.



If the serial number contains a vowel:

		Red Flash	Blue Flash	Green Flash	Yellow Flash
Button to press:	**No Strikes**	Blue	Red	Yellow	Green
	1 Strike	Yellow	Green	Blue	Red
	2 Strikes	Green	Red	Yellow	Blue

If the serial number does not contain a vowel:

		Red Flash	Blue Flash	Green Flash	Yellow Flash
Button to press:	**No Strikes**	Blue	Yellow	Green	Red
	1 Strike	Red	Blue	Yellow	Green
	2 Strikes	Yellow	Green	Blue	Red

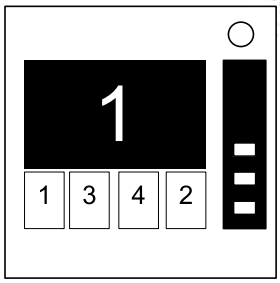
	BLANK	C	CEE	DISPLAY	FIRST	HOLD ON	LEAD	LEED	LED	NO	NOTHING	OKAY	READ
		X			X							X	
	X								X		X		X
X			X	X		X	X	X		X			

RED	REED	SAYS	SEE	THEIR	THERE	THEY ARE	THEY'RE	UR	YES	YOU	YOU ARE	YOUR	YOU'RE
								X					
X				X		X			X	X		X	X
	X	X	X		X		X				X		

Push the first button that appears in its corresponding list:

"BLANK":	WAIT, RIGHT, OKAY, MIDDLE, BLANK
"DONE":	SURE, UH HUH, NEXT, WHAT?, YOUR, UR, YOU'RE, HOLD, LIKE, YOU, U, YOU ARE, UH UH, DONE
"FIRST":	LEFT, OKAY, YES, MIDDLE, NO, RIGHT, NOTHING, UHHH, WAIT, READY, BLANK, WHAT, PRESS, FIRST
"HOLD":	YOU ARE, U, DONE, UH UH, YOU, UR, SURE, WHAT?, YOU'RE, NEXT, HOLD
"LEFT":	RIGHT, LEFT
"LIKE":	YOU'RE, NEXT, U, UR, HOLD, DONE, UH UH, WHAT?, UH HUH, YOU, LIKE
"MIDDLE":	BLANK, READY, OKAY, WHAT, NOTHING, PRESS, NO, WAIT, LEFT, MIDDLE
"NEXT":	WHAT?, UH HUH, UH UH, YOUR, HOLD, SURE, NEXT
"NO":	BLANK, UHHH, WAIT, FIRST, WHAT, READY, RIGHT, YES, NOTHING, LEFT, PRESS, OKAY, NO
"NOTHING":	UHHH, RIGHT, OKAY, MIDDLE, YES, BLANK, NO, PRESS, LEFT, WHAT, WAIT, FIRST, NOTHING
"OKAY":	MIDDLE, NO, FIRST, YES, UHHH, NOTHING, WAIT, OKAY
"PRESS":	RIGHT, MIDDLE, YES, READY, PRESS
"READY":	YES, OKAY, WHAT, MIDDLE, LEFT, PRESS, RIGHT, BLANK, READY
"RIGHT":	YES, NOTHING, READY, PRESS, NO, WAIT, WHAT, RIGHT
"SURE":	YOU ARE, DONE, LIKE, YOU'RE, YOU, HOLD, UH HUH, UR, SURE
"U":	UH HUH, SURE, NEXT, WHAT?, YOU'RE, UR, UH UH, DONE, U
"UH HUH":	UH HUH
"UH UH":	UR, U, YOU ARE, YOU'RE, NEXT, UH UH
"UHHH":	READY, NOTHING, LEFT, WHAT, OKAY, YES, RIGHT, NO, PRESS, BLANK, UHHH
"UR":	DONE, U, UR
"WAIT":	UHHH, NO, BLANK, OKAY, YES, LEFT, FIRST, PRESS, WHAT, WAIT
"WHAT":	UHHH, WHAT
"WHAT?":	YOU, HOLD, YOU'RE, YOUR, U, DONE, UH UH, LIKE, YOU ARE, UH HUH, UR, NEXT, WHAT?
"YES":	OKAY, RIGHT, UHHH, MIDDLE, FIRST, WHAT, PRESS, READY, NOTHING, YES
"YOU ARE":	YOUR, NEXT, LIKE, UH HUH, WHAT?, DONE, UH UH, HOLD, YOU, U, YOU'RE, SURE, UR, YOU ARE
"YOU":	SURE, YOU ARE, YOUR, YOU'RE, NEXT, UH HUH, UR, HOLD, WHAT?, YOU
"YOU'RE":	YOU, YOU'RE
"YOUR":	UH UH, YOU ARE, UH HUH, YOUR

On the Subject of Memory



Memory is a fragile thing but so is everything else when a bomb goes off, so pay attention!

- Press the correct button to progress the module to the next stage. Complete all stages to disarm the module.
- Pressing an incorrect button will reset the module back to stage 1.
- Button positions are ordered from left to right.

Stage 1:

If the display is 1, press the button in the second position.
If the display is 2, press the button in the second position.
If the display is 3, press the button in the third position.
If the display is 4, press the button in the fourth position.

Stage 2:

If the display is 1, press the button labeled "4".
If the display is 2, press the button in the same position as you pressed in stage 1.
If the display is 3, press the button in the first position.
If the display is 4, press the button in the same position as you pressed in stage 1.

Stage 3:

If the display is 1, press the button with the same label you pressed in stage 2.
If the display is 2, press the button with the same label you pressed in stage 1.
If the display is 3, press the button in the third position.
If the display is 4, press the button labeled "4".

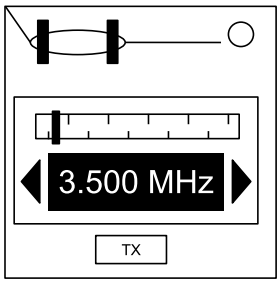
Stage 4:

If the display is 1, press the button in the same position as you pressed in stage 1.
If the display is 2, press the button in the first position.
If the display is 3, press the button in the same position as you pressed in stage 2.
If the display is 4, press the button in the same position as you pressed in stage 2.

Stage 5:

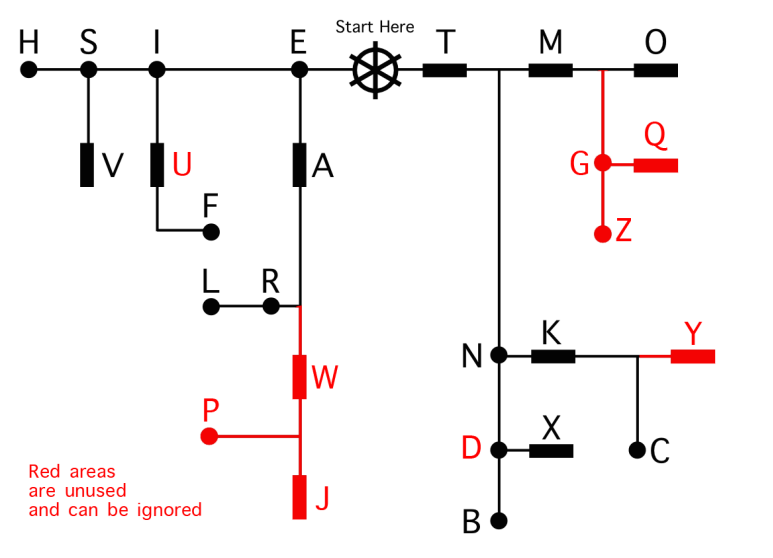
If the display is 1, press the button with the same label you pressed in stage 1.
If the display is 2, press the button with the same label you pressed in stage 2.
If the display is 3, press the button with the same label you pressed in stage 4.
If the display is 4, press the button with the same label you pressed in stage 3.

On the Subject of Morse Code



An antiquated form of naval communication? What next? At least it's genuine Morse Code, so pay attention and you might just learn something.

- Interpret the signal from the flashing light using the Morse Code chart to spell one of the words in the table.
- The signal will loop, with a long gap between repetitions.
- Once the word is identified, set the corresponding frequency and press the transmit (TX) button.



If the word is:	Respond at frequency:
beats (5)	3.600 MHz
bistro (6)	3.552 MHz
bombs (5)	3.565 MHz
boxes (5)	3.535 MHz
break (5)	3.572 MHz
brick (5)	3.575 MHz
flick (5)	3.555 MHz
halls (5)	3.515 MHz
leaks (5)	3.542 MHz
shell (5)	3.505 MHz
slick (5)	3.522 MHz
steak (5)	3.582 MHz
sting (5)	3.592 MHz
strobe (6)	3.545 MHz
trick (5)	3.532 MHz
vector (6)	3.595 MHz

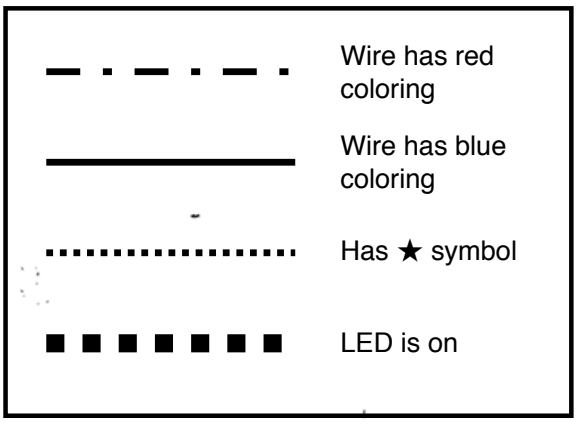
On the Subject of Complicated Wires

These wires aren't like the others. Some have stripes! That makes them completely different. The good news is that we've found a concise set of instructions on what to do about it! Maybe too concise...

- Look at each wire: there is an LED above the wire and a space for a "★" symbol below the wire.
- For **each** wire/LED/symbol combination, use the Venn diagram below to decide whether or not to cut the wire.
- Each wire may be striped with multiple colors.

Wire Color	LED	LED + ★	★	neither	Word
	D	+	✂	✂	"White"
	+	+	✂	#/2	"Red"
			D	#/2	"Blue"
	#/2	D		#/2	"Both"

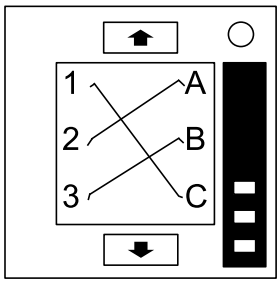
Always CUT for WHITE, WHITE STAR and RED STAR



Letter	Instruction
C	Cut the wire
D	Do not cut the wire
S	Cut the wire if the last digit of the serial number is even
P	Cut the wire if the bomb has a parallel port
B	Cut the wire if the bomb has two or more batteries

See Appendix B for battery identification reference.
See Appendix C for port identification reference.

On the Subject of Wire Sequences



It's hard to say how this mechanism works. The engineering is pretty impressive, but there must have been an easier way to manage nine wires.

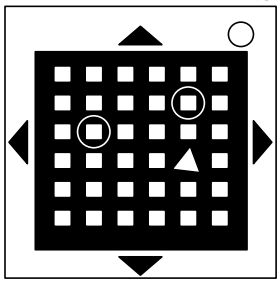
- Within this module there are several panels with wires on them, but only one panel is visible at a time. Switch to the next panel by using the down button and the previous panel by using the up button.
- Do not switch to the next panel until you are sure that you have cut all necessary wires on the current panel.
- Cut the wires as directed by the following table. Wire occurrences are cumulative over all panels within the module.

Red Wire Occurrences	
Wire Occurrence	**Cut if connected to:**
First red occurrence	C
Second red occurrence	B
Third red occurrence	A
Fourth red occurrence	A or C
Fifth red occurrence	B
Sixth red occurrence	A or C
Seventh red occurrence	A, B or C
Eighth red occurrence	A or B
Ninth red occurrence	B

Blue Wire Occurrences	
Wire Occurrence	**Cut if connected to:**
First blue occurrence	B
Second blue occurrence	A or C
Third blue occurrence	B
Fourth blue occurrence	A
Fifth blue occurrence	B
Sixth blue occurrence	B or C
Seventh blue occurrence	C
Eighth blue occurrence	A or C
Ninth blue occurrence	A

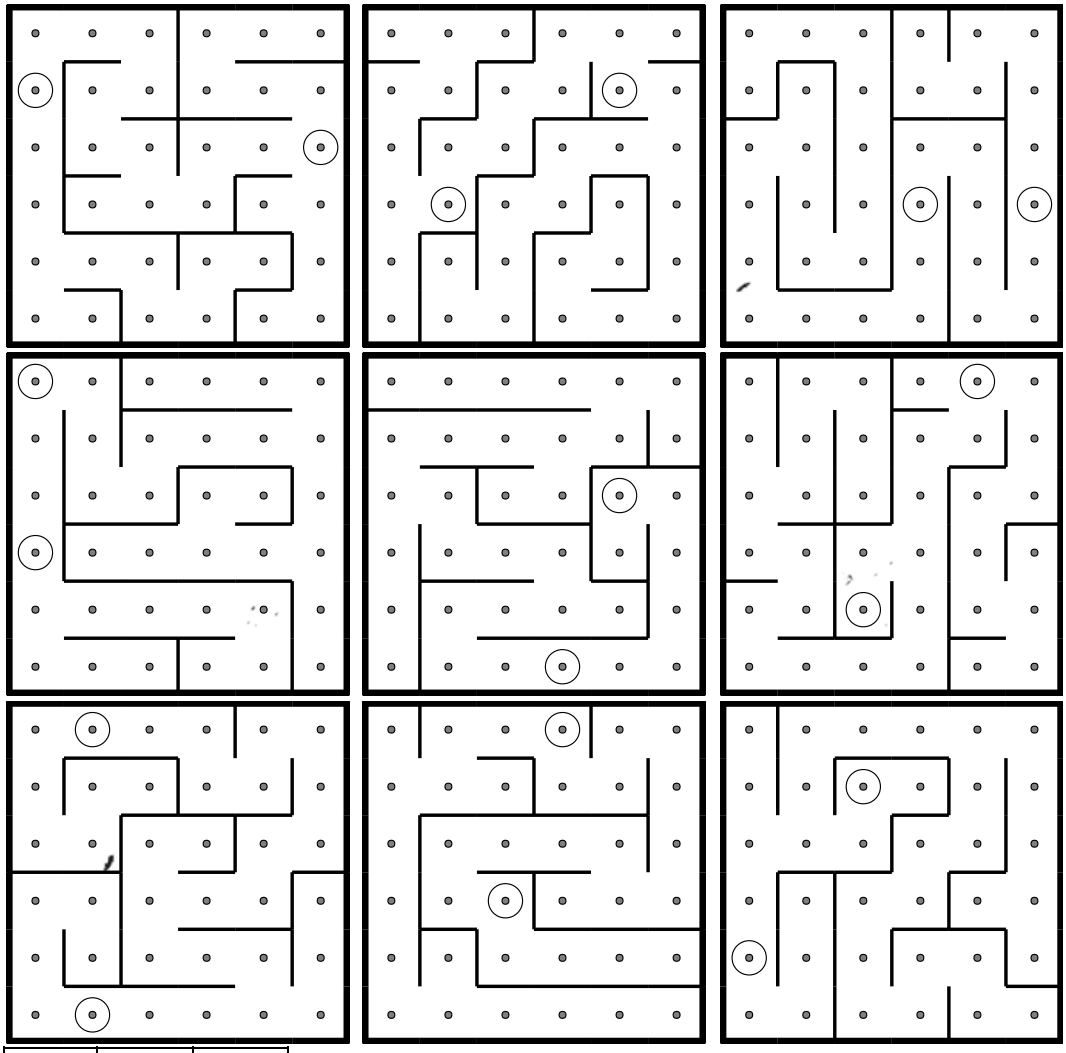
Black Wire Occurrences	
Wire Occurrence	**Cut if connected to:**
First black occurrence	A, B or C
Second black occurrence	A or C
Third black occurrence	B
Fourth black occurrence	A or C
Fifth black occurrence	B
Sixth black occurrence	B or C
Seventh black occurrence	A or B
Eighth black occurrence	C
Ninth black occurrence	C

On the Subject of Mazes



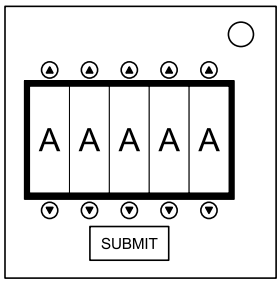
This seems to be some kind of maze, probably stolen off of a restaurant placemat.

- Find the maze with matching circular markings.
- The defuser must navigate the white light to the red triangle using the arrow buttons.
- **Warning:** Do not cross the lines shown in the maze. These lines are invisible on the bomb.



1/2 6/3	2/4 5/2	4/4 6/4
1/1 1/4	5/3 4/6	5/1 3/5
2/1 2/6	4/1 3/4	1/5 3/2

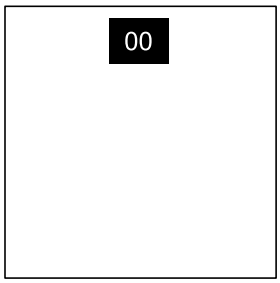
On the Subject of Passwords



Fortunately this password doesn't seem to meet standard government security requirements: 22 characters, mixed case, numbers in random order without any palindromes above length 3.

- The buttons above and below each letter will cycle through the possibilities for that position.
- Only one combination of the available letters will match a password below.
- Press the submit button once the correct word has been set.

- about
- after
- again
- below
- could
- every
- first
- found
- great
- house
- large
- learn
- never
- other
- place
- plant
- point
- right
- small
- sound
- spell
- still
- study
- their
- there
- these
- thing
- think
- three
- water
- where
- which
- world
- would
- write



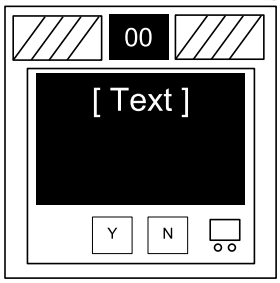
Section 2: Needy Modules

Needy modules cannot be disarmed, but pose a recurrent hazard.

Needy modules can be identified as a module with a small 2-digit timer in the top center. Interacting with the bomb may cause them to become activated. Once activated, these needy modules must be tended to regularly before their timer expires in order to prevent a strike.

Stay observant: needy modules may reactivate at any time.

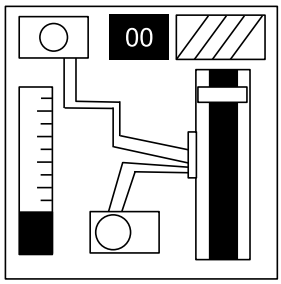
On the Subject of Venting Gas



Computer hacking is hard work! Well, it usually is. This job could probably be performed by a simple drinking bird pressing the same key over and over again.

- Respond to the computer prompts by pressing "Y" for "Yes" or "N" for "No".

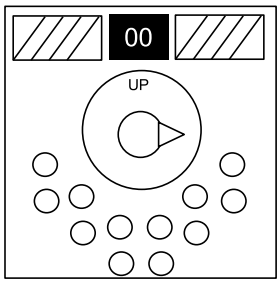
On the Subject of Capacitor Discharge



I'm going to guess that this is just meant to occupy your attention, because otherwise this is some shoddy electronics work.

- Discharge the capacitor before it overloads by holding down the lever.

On the Subject of Knobs



Needlessly complicated and endlessly needy. Imagine if such expertise were used to make something other than diabolical puzzles.

- The knob can be turned to one of four different positions.
- The knob must be in the correct position when this module's timer hits zero.
- The correct position can be determined by the on/off configuration of the twelve LEDs.
- Knob positions are relative to the "UP" label, which may be rotated.

LED Configurations

Up Position:

				↑X	X
X	X	X	↑X		↑X

X		X		↑X	
	X	X		↑X	↑X

Down Position:

	X	X			X
X	X	X	↓X		↓X

X		X		↓X	
	X				↓X

Left Position:

				←X	
X			←X	←X	←X

				←X	
			←X	←X	

Right Position:

X		X	X	→X	X
X	X	X		→X	

X		X	X		
X	X	X		→X	

X = Lit LED

Appendix A: Indicator Identification Reference

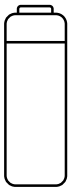
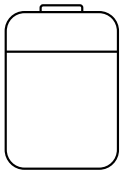
Labelled indicator lights can be found on the sides of the bomb casing.

Common Indicators

- SND
- CLR
- CAR
- IND
- FRQ
- SIG
- NSA
- MSA
- TRN
- BOB
- FRK

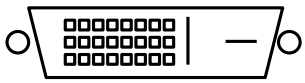
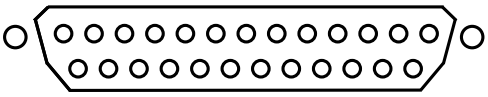
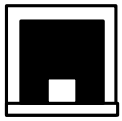
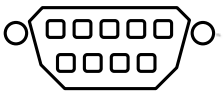
Appendix B: Battery Identification Reference

Common battery types can be found within enclosures on the sides of the bomb casing.

Battery	Type
	AA
	D

Appendix C: Port Identification Reference

Digital and analog ports can be found on sides of the bomb casing.

Port	Name
	DVI-D
	Parallel
	PS/2
	RJ-45
	Serial
	Stereo RCA