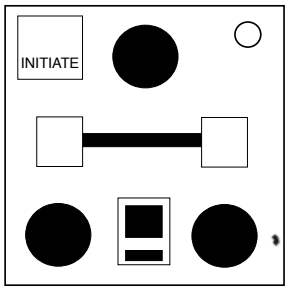
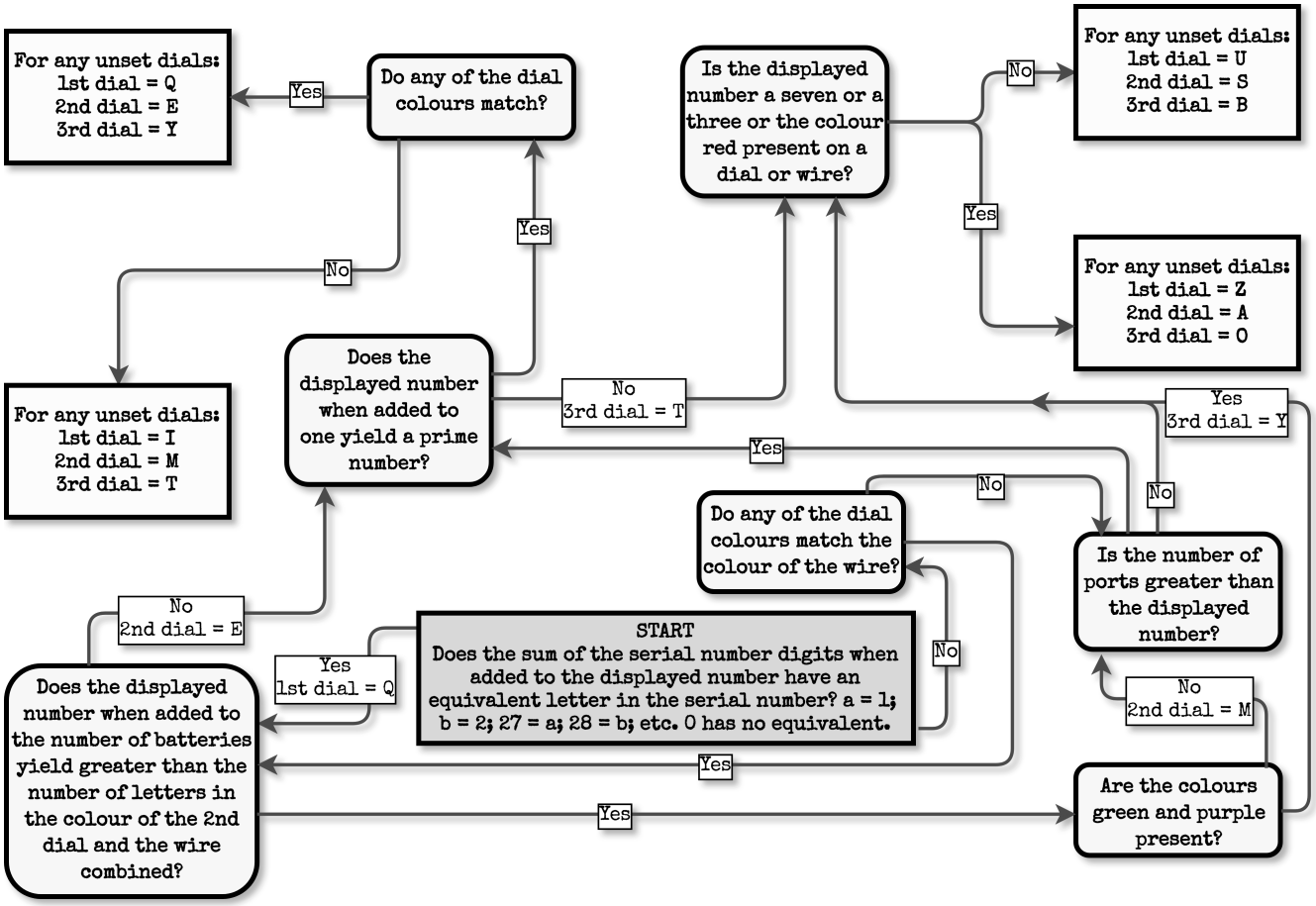
On the Subject of The Wire



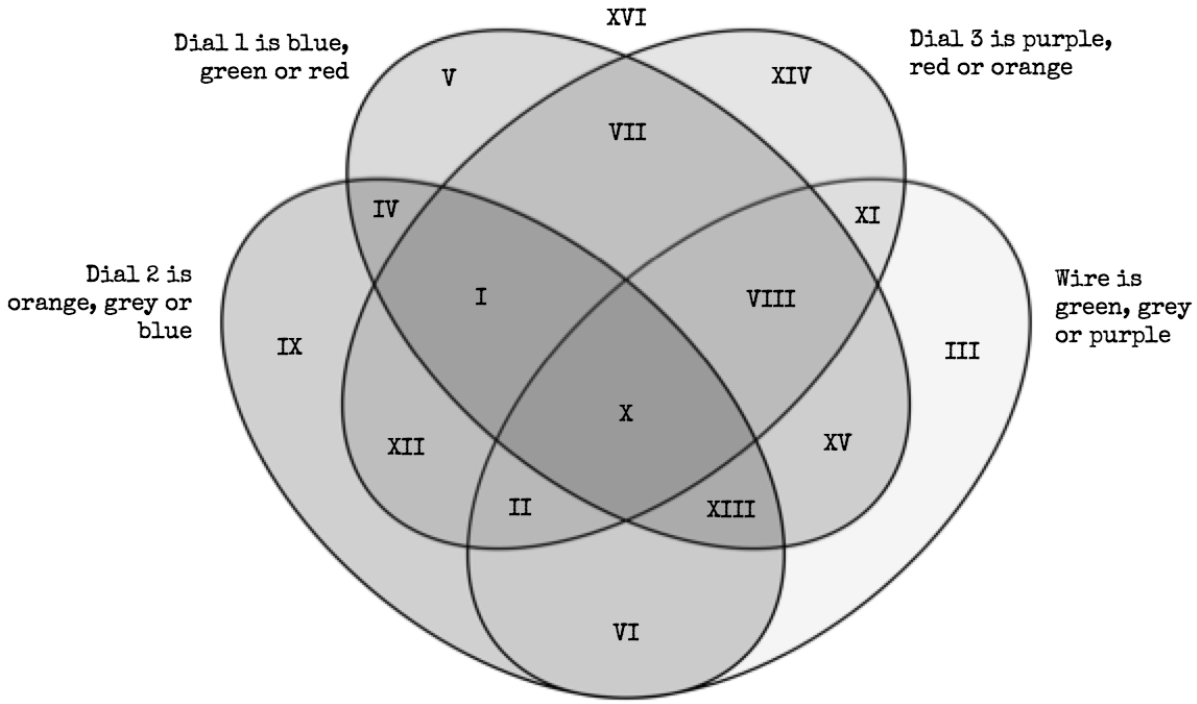
Only one wire? You should probably cut it. Wait, what do those dials do?

- The module consists of three retractable dials (ordered 1–3 in reading order), a retractable wire, a number display and an initiate button.
- To defuse the module, you must set the dials to the correct channel and cut the wire at a specified time.
- Push the initiate button to expose the dials/wire and start the countdown.
- Once the countdown expires, the dials and wires will retract. The colours will reset upon re-initialisation. For safety reasons, the wire cannot be cut whilst in motion.
- Use the flow chart to determine the correct channels of the three dials.
- Once a dial has been set, disregard any further instructions for that dial.
- Use the Venn diagram to determine when the wire must be cut.
- Cutting the wire at the wrong time or with the dials incorrectly set will result in a strike.

Flow Chart



Venn Diagram



Cut the wire when the last 'second digit' of the bomb timer is:

I	Last digit of (g + a)	**IX**	acf % 8
II	(j + e + f) % 10	**X**	First digit of (3h + g)
III	((i + d + h) % 7) + 2	**XI**	(i + d − e) % 10
IV	(b + c) % 6	**XII**	4j % 5
V	(ja + c) % 9	**XIII**	((d % 7) + (i % 4)) % 10
VI	First digit of (fi + h)	**XIV**	Last digit of cg
VII	(gb + b) % (e + 4)	**XV**	(j(f + h)) % 9
VIII	Last digit of d	**XVI**	(b(e + a)) % 8

You may encounter the following variables:

a	Displayed number	**f**	Total unlit indicators
b	Number of times initiate button pressed	**g**	Serial + parallel + RJ-45 + DVI ports
c	Total indicators * 2	**h**	Total modules on the bomb
d	Total port plates * 4	**i**	Displayed number * 6
e	Displayed number % 3	**j**	Total lit indicators

- A percentage sign refers to the 'modulo' operation.