

Camera “Prototype One” – modified Sankyo 620 Supertronic.

Version 01 of 17 May 2026

This document covers circuits and circuit building.

See other document “Mod-8 - Super-8mm Camera Mods.pdf” for the craft of camera modification.

Photo: This is a complex circuit!

It worked well for me to build by planning with simpler diagrams of separate sections.

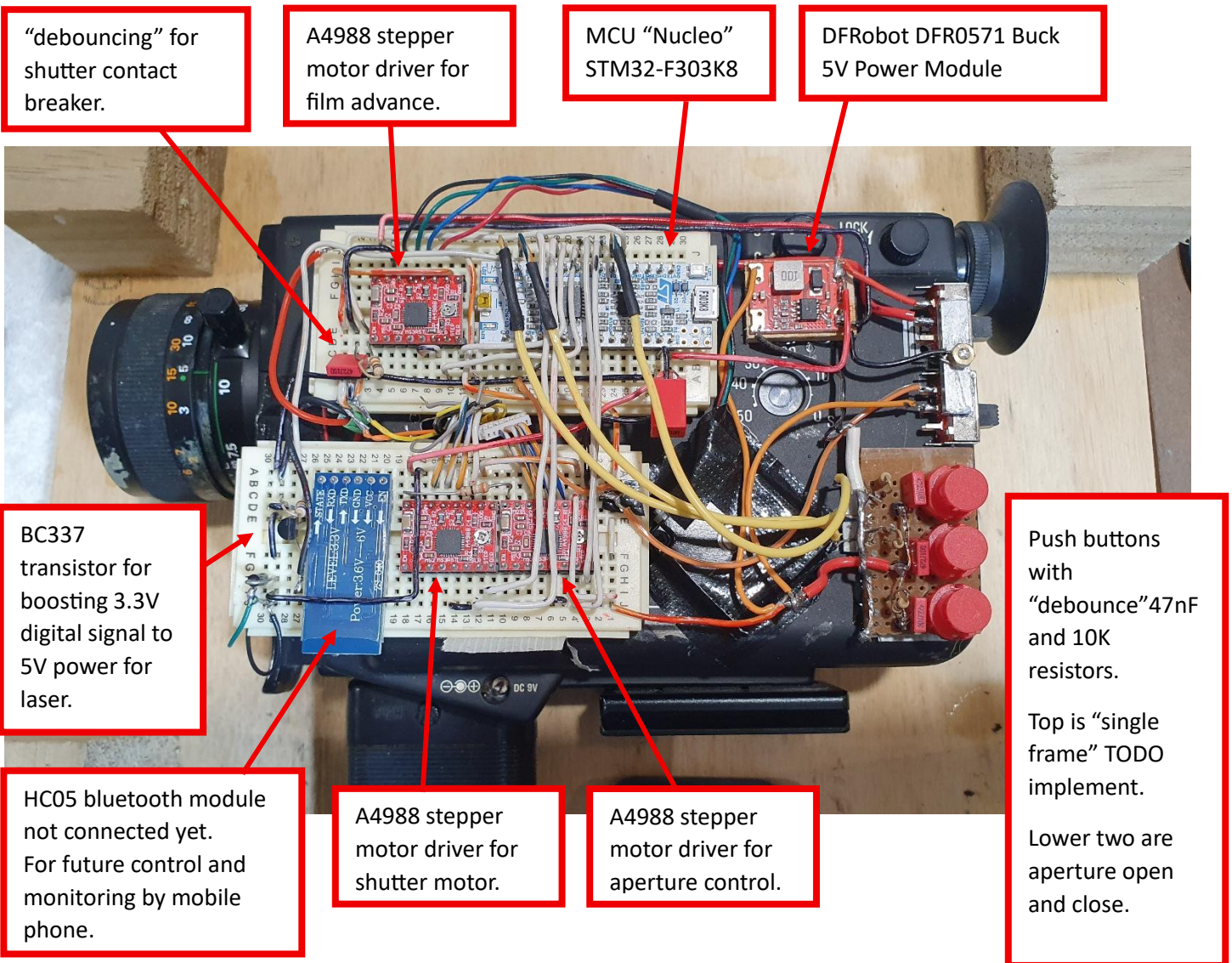
Use of old bell wire. I have many scrap boxes of parts from parents, grandparents and other extended family. This included bell wire where the core is a single thick copper wire. This is rigid and a tight fit into breadboard holes. I think that this gives robust breadboard prototyping for a working portable camera.

Wire colours convention:

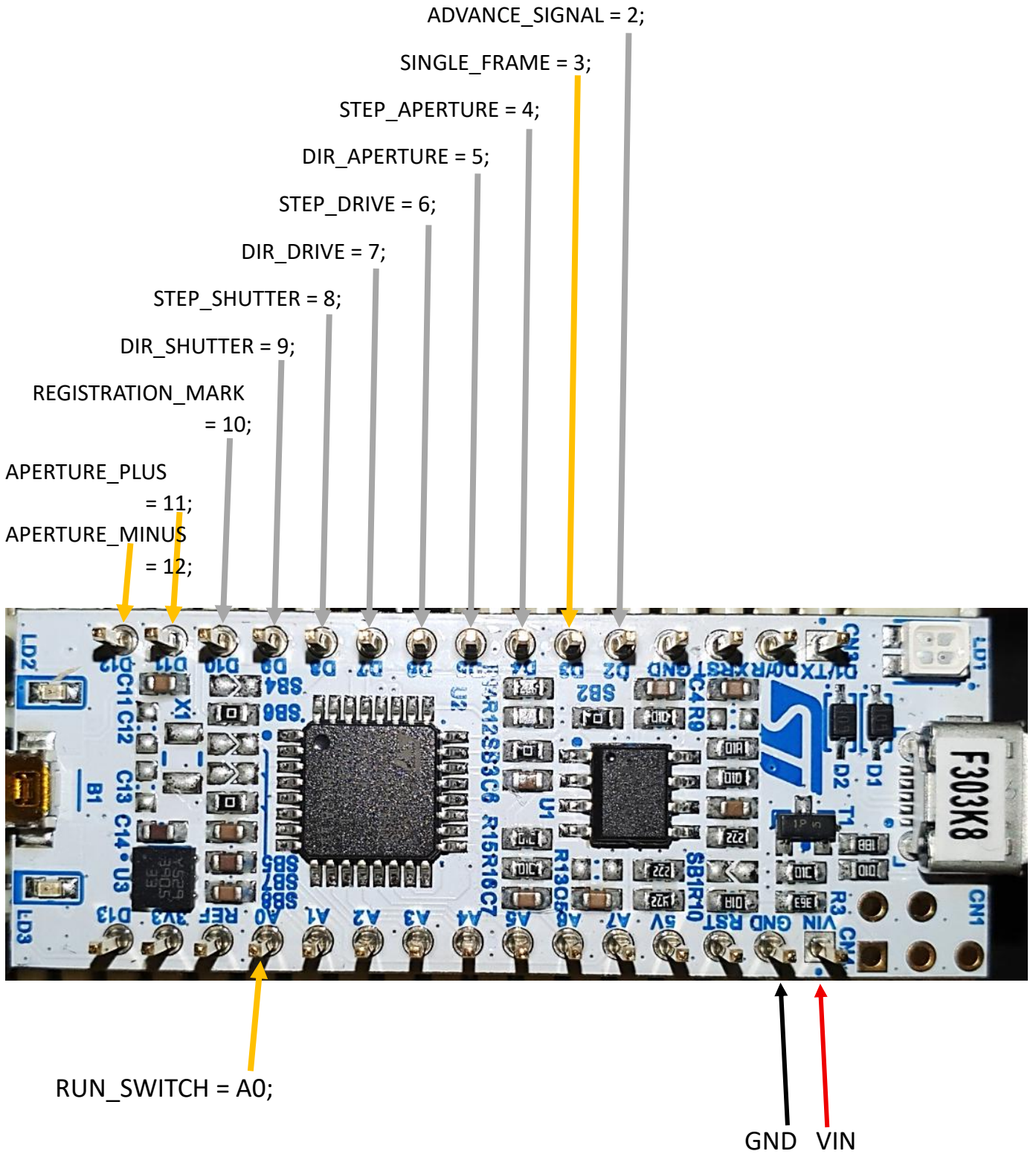
I follow this by colouring white bell wire with permanent marker pen.

Implementation is not quite perfect. On the TODO list is painting some wires.

- Red Vcc positive – camera original power supply of 6 x NiMH batteries giving about 7.5V
- Orange 5V digital electronics power
- Yellow INPUTs into MCU
- White OUTPUTs from MCU



I found this useful to print on paper as the main diagram to work from



Circuit diagram, partial for clarity

Showing detail wiring of A4988 for the main film drive.
The others are similar.

Wire colours:

- Red Vcc positive – camera original power supply of 6 x NiMH batteries giving about 7.5V
- Orange 5V digital electronics power
- White OUTPUTs from MCU

