

High Performance Flashgun Slave Unit: Kit Check

(SLV023)

- ◆ Plastic Pot (used for housing the unit) containing PCB and components
- ◆ Bag 1, containing cable ties, grommets, velcro and solder
- ◆ Bag 2, containing resistors
- ◆ Black cardboard box of semiconductors (may contain parts for more than one kit)
- ◆ Phono lead with moulded plug at one end
(for two kits, a double-length lead with a plug at both ends may be provided)
- ◆ Battery (if ordered)
- ◆ Circuit diagram and description of the slave unit, SLV023
- ◆ The piece of paper you are reading now

In addition, you will need the assembly instructions and bill of materials, from [caves.org.uk / flash /](http://caves.org.uk/flash/)

Important Notes

This kit – for product SLV023 – is slightly different to the previous kits, and the on-line documentation *has not been updated*. Please, therefore, note the following points...

Please note that the SLV023 printed circuit board is a very slightly different layout to the previous versions, SLV021 and SLV011. The changes, which are minor, are as follows...

1. SK1 is now a smaller part
2. R4 now lies flat
3. The photodiode SFH206K might be replaced, in the kit, by an alternative, BPW41N, which is only sensitive to infrared. **Make sure you fit it the correct way round**. Both parts have a chamfer to identify the cathode (indicated in diagram below).
4. The battery clips are slightly further apart, and the board is slightly longer then before
5. If you are fitting F1, use a 'vero' cutter or a small drill bit to break – *on the solder side of the board* – the plated-through hole marked on the diagram below. Do not break the PCB tracks – just cut the rim of the hole.

6. The warning about a possible short, which applied to SLV021 PCBs, does not apply to this board
7. F1 (the fuse, not normally supplied) is re-positioned
8. An alternative part for C6 may be supplied. C6 will have either an orange or a silver body
9. The legend on the PCB for Q1 is misplaced

To assemble this kit, you need appropriate knowledge of electronic construction techniques. Please read the assembly instructions at [caves.org.uk / flash](http://caves.org.uk/flash/) and, if you do not want to proceed, return the kit unused for a refund.

Dont forget to take account of the polarity-sensitive components: all the semiconductors, C5 and, of course, the battery.

Note: the lead-based solder supplied, uses a water-soluble flux. It is important that the board is scrubbed (gently!) in water soon after soldering, or an immovable conducting residue will be formed, which will prevent proper operation of the unit. You may prefer to use your own low-residue solder that does not require a board wash.

