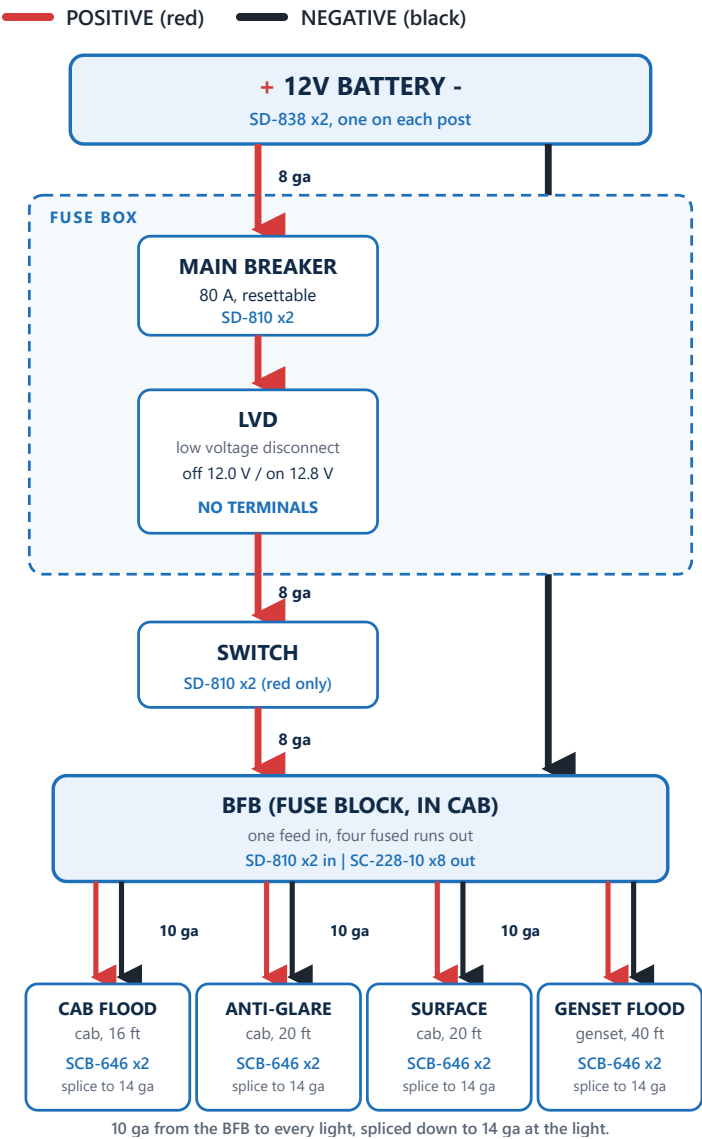


Tipper Work Light Wiring

Every run, both wires, and which terminal goes on which end • Kits H7019A, H7023A and H7028A

SETUP GUIDE

TK-400 • REV. 2026-10-04



Flood lights by kit. H7019A: 2x 6-barrel on the cab and the genset. H7023A: 2x 9-barrel on the cab, 2x 6-barrel on the genset. H7028A: 2x 9-barrel on both. Same runs and terminals on all three.

Ratings to check before building. The largest kit, H7028A, draws about 28 A with all lights on (H7023A about 23 A, H7019A about 19 A). The LVD and the switch each need a rating well above 28 A. A 30 A part is too close.

Wire runs

- 8 ga** Battery to fuse box to switch to BFB. Two-strand wire (8-2-D), red and black in one jacket the whole way. About 41 ft per kit.
- 10 ga** BFB to each light. Two-strand wire (10-2-D). Four runs: 16 + 20 + 20 + 40 = 96 ft, so one 100 ft roll per kit.
- 14 ga** Only the short lead with the light's Deutsch plug. It joins the 10 ga with a step-down splice within 1 ft of the light.

The black wire is the simple one. It runs from the battery negative alongside the red all the way to the BFB. It does not pass through the fuse, LVD or switch. Those only break the red. The two-strand wire keeps them together as one loom.

Terminals and splices

PART	QTY	GOES ON
SD-838	2	Battery posts, one red one black. 3/8" ring, 8 ga.
SD-810	6	Fuse x2 (red in, red out) Switch x2 (red in, red out) BFB x2 (red in, black in)
SC-228-10	8	10 ga ring, adhesive-lined heat shrink. BFB outputs, red and black for each of the 4 lights.
SCB-646	8	Step-down butt splice, adhesive-lined, 10 ga down to 14 ga. Red and black at each of the 4 lights.
LVD	1	No terminals. Red lands straight in its own screws.

Order of work

1. **Take the battery negative off first.**
2. Mount the fuse box, switch and BFB somewhere dry.
3. Crimp **SD-838** on both 8 ga battery ends, red to +, black to -.
4. Run the 8 ga to the fuse box. Red into the breaker, then the LVD. Black straight past.
5. Carry both on to the switch. Red through it on **SD-810**, black past.
6. Both into the BFB on **SD-810**.
7. Run the four 10 ga pairs to the lights. **SC-228-10** on the BFB end.
8. At each light, join the 10 ga to the 14 ga Deutsch lead with **SCB-646**, within 1 ft of the light. Heat until the glue shows at both ends.
9. Set the LVD to cut off at 12.0 V and reconnect at 12.8 V.
10. **Breaker on last**, reconnect the battery, test.