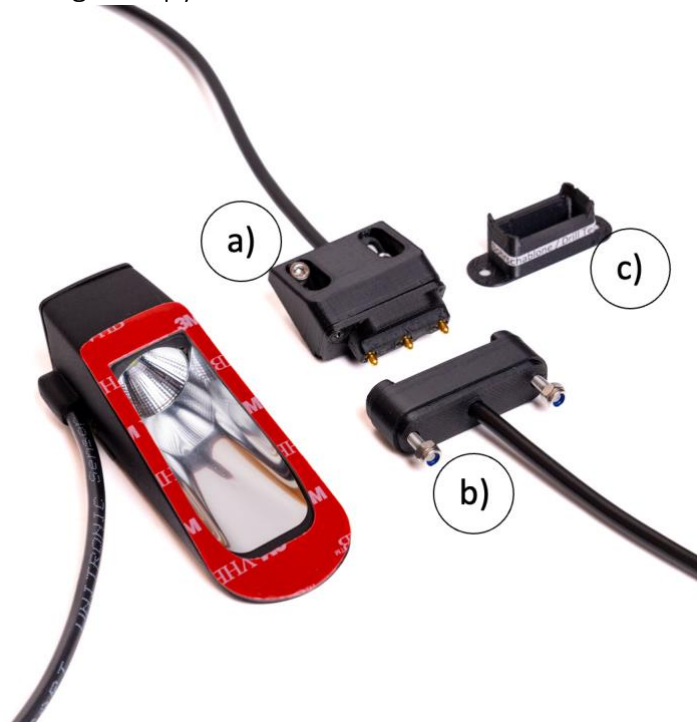# Installation Manual for Side Opening Canopy Connector "DG Doubleseater" (e.g. DG 500 / 1000 / 1001)

Parts of the side opening canopy connector:

a) SteFly Canopy Flasher with cable and canopy frame connector

- o
- o 2 cylinder head screws M3
- o 2 rivet nuts M3, which are glued (or riveted, if you have a rivet gun available) into the canopy frame to attach the side opening connector

b) Fuselage connector (preassembled or as parts) with long cable leading to the control box (or on/off switch in case of Essential version)

c) Drill template for the fuselage connector
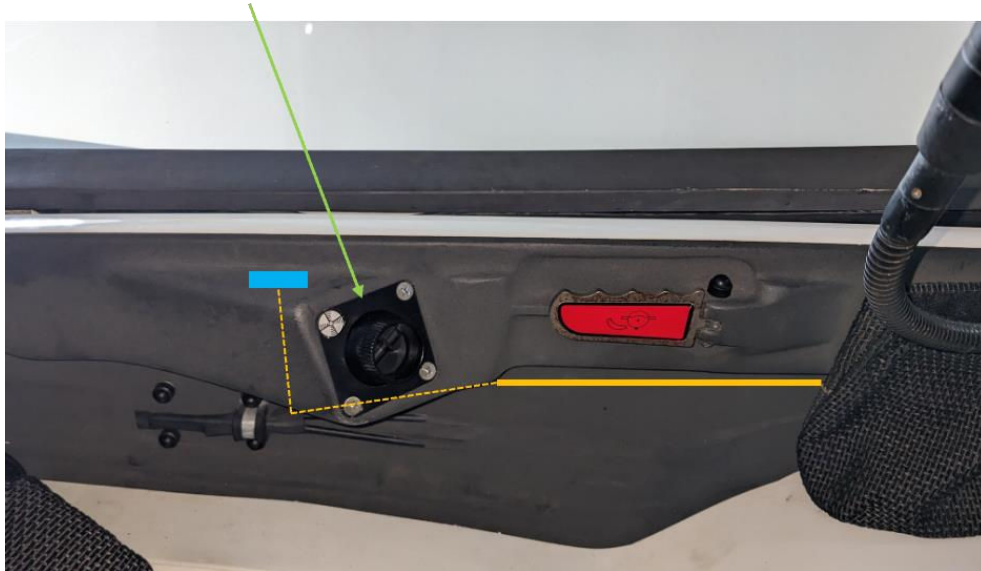
Overview of the cable routing:
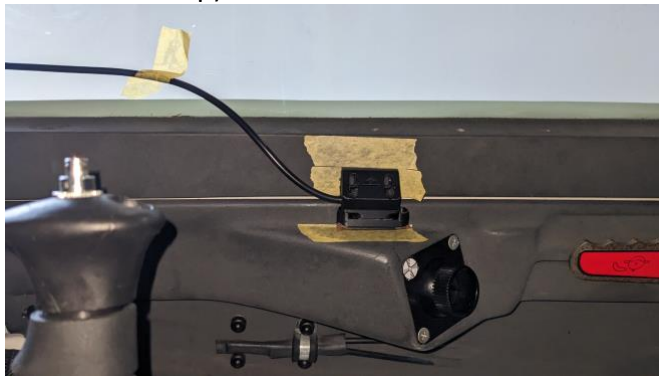

Installation Procedure:

- Install the canopy flasher like described in the main manual for SteFly Canopy Flasher; do not forget to degrease the bonding surface of the canopy inside in the area of the canopy flasher. Use e.g. water with dishwashing detergent, isopropanol or benzene-free petroleum ether, but never acetone or other alcohol as these solvents may cause micro cracks!

- Remove the black air ventilation nozzle for installation of the fuselage connector

- Attach the side opening canopy connector on the canopy frame: (please note that in the current version of the canopy connector the cable enters the canopy frame connector from the top)

1)
2) Prepare the backside of the canopy frame connector and the fuselage connector with double sided adhesive tape
3) Put the 3 D printed drill template onto the side opening connector

4) Remove all protection foils of the double-sided adhesive tapes
5) Take a seat into the cockpit, close the canopy and attach the canopy frame connector as well as the drill template.
6) Mark the position of the two holes for the mounting screws of the canopy frame connector. The canopy frame connector has long holes for later adjustment of the distance between this connector and its counterpart. Therefore, it is recommended to place the drill holes in the middle of the long holes, to have the possibility of later adjustment in up and down direction.
7) Open the canopy
8) Remove the side opening connector
9) Drill two holes in the canopy frame with a diameter appropriate for the threaded bushings

10) Glue the rivet nuts with epoxy glue into the canopy frame and let it harden. Alternatively, if the appropriate tool is available, the rivet nuts can also be riveted

11) Install the side opening connector and gently fasten the screws

- Install the counterpart (=fuselage connector)
    1) Check the position of the drill template
    2) Drill the two holes (diameter 3,2 mm) and the center hole for the cable (diameter 4,5 mm)
    3) We recommend installing the control box in the panel of the rear seat, because there is usually more space. Therefore, lay the cable from the control box to the front ventilation (position of the canopy connector) along the cable of the microphone under the side pocket (see also the orange line in the pictures above)

    4) Drill a whole under the ventilation housing for the cable (diameter 4,5 mm)
    5) Solder the three wires to the PCB as shown in the picture below. Black wire to GND, brown wire to + and blue wire to S. A zip tie as pull relief is included in scope of delivery.

    6) Mount the fuselage connector in the way that the white arrow on the black printed circuit board points towards the cockpit center) and gently fasten the screws

7) Check, if the 3 spring loaded pins (POGO pins) are in contact with the golden connection surfaces of the printed circuit board when the canopy is closed. You can adjust the distance between these two parts with the two screws in the long holes of the canopy side connector.

- Install the Flarm Control Box and the ACL switch in the panel according to the main manual.
- If required, you can stick the small 3D printed cable brackets to the canopy acrylic glass to define the position of the cable from the flasher to the side opening connector along the canopy frame

Test the Flasher:

Canopy Flasher with Control Box:

1) Switch ACL switch on
2) Close the canopy: the flasher should flash twice with small intensity
3) Search and connect with WiFi network "Just Soaring" on your mobile device or laptop (WiFi of the control box is automatically activated for 3 minutes after switching on)
4) Type in http://192.168.0.1 in a browser and the web application will open
5) Check that nobody is looking directly in the canopy flasher
6) Click on "test"; the LED will flash for 5 seconds with high intensity

Canopy Flasher Essential:

7) Switch ACL switch on
8) Close the canopy: the flasher should flash twice with low intensity and then constantly with normal intensity