



## 20 mm searchlight Order No. 566720

# aero- naut

The searchlight swivels and tilts, and its articulation can be controlled by mini-servos. The LED must be fitted with a series resistor!

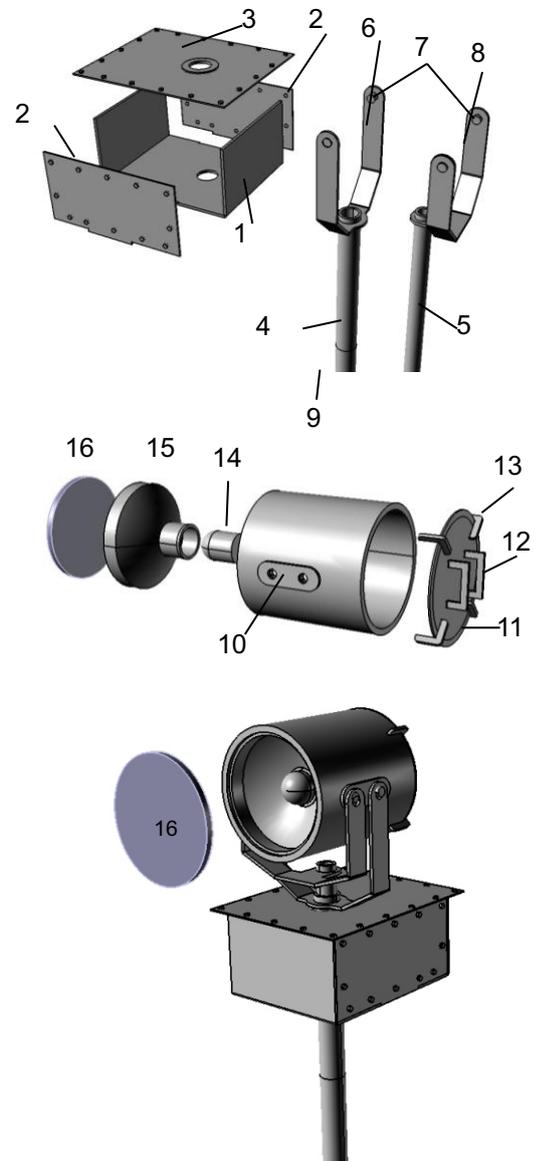
Bend the sides of part 1 through 90° as shown. Insert the sides 2 and solder the box joints on the inside. Pass the tube 4 through the box and the top cover 3. Align the cover carefully before soldering it to the box from the underside.

Solder the 1.5 mm brass rod 7 in the holes in the bracket arms 6 and 8, then cut down the rods to a maximum length of 2 mm on the side with the etched-in grooves. Sand or file it back flush with the bracket arms 6 and 8. Solder the tubes 4 and 5 in the centre of parts 6 and 8. The tubes should project at the top, but by no more than 1 mm. Glue the two tilt bushes 10 centrally to the searchlight housing 9 using cyano. Drill 1.5 mm holes through the plastic tube, then remove the drilling burr on the inside.

Fit the LED 14 in the reflector 15. Cut down the terminal pins attached to the LED to a length of 7 - 8 mm, then solder the wires to the LED terminals, and insulate the soldered joints. Bend the wires over at the reflector. Drill a 2 mm Ø hole in the centre of the bottom of the searchlight housing for the wires to pass through; the hole should be located behind the bracket 6. Pass the cables through the hole and insert the reflector. Peel off the inner protective film from the lens 16, and press the lens into place.

Complete the rear cover 11 by fitting the handles 12. Insert the rear cover in the searchlight, and glue the latches 13 to the cover and the searchlight. Bend the swivel and tilt brackets 6 / 8 through about 45° in the direction of the grooves. Slide the tubes into each other, and allow the shafts to snap into the tilt bushes 10. It should now be possible to tilt the searchlight by moving the inner tube. Fit the tube through the box.

The searchlight can now be painted. Remove the protective film from the lamp lens when the paint is dry. You will find two etched 1.0 mm holes on either side of the rear cover 11 which are intended to help when replacing the LED. If a repair is needed, drill out the holes and push a length of wire through them to push out the reflector and lens.



### Specification

<b>Voltage</b>	5 V, only with 75 Ohm series resistor 6 V only with 120 Ohm series resistor 12 V only 430 Ohm series resistor
Length	27 mm
Width	22 mm
Height	45 mm
Swivel range	360°
Tilt range	+/-15° max.

### Parts List for the searchlight, Order No. 5667/20

<b>Part 4</b>	774041	Brass tube, 4.0 x 0.45 x 40 mm
Part 5	774031	Brass tube, 3.0 x 0.45 x 60 mm
Part 7	773215	Brass tube, 1.5 x 20 mm
Part 9	772849	ASA tube, 20.0 x 18.0 x 20.0 mm
Part 14	5.0 mm	LED
Part 15	Reflector	
Part 16	Lens	VIVAK 18.0 Ø x 1.0 mm

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