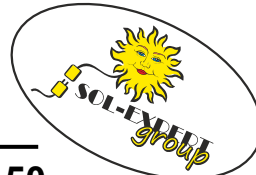


# INSTRUCTIONS



## UNIVERSAL DRIVE POWER kit G50

Order no. **88150**

With metal gearbox G50, voltage range 0.3 - 6 Volt / 30 - 400 U/m

**Application examples:** Motor for 1:43 vehicles, powerful winches, chain drives, etc.

**Assembly accessories (not included):**  
Small screwdriver,  
Allen key (Allen 0.9 mm)



### Gearbox design

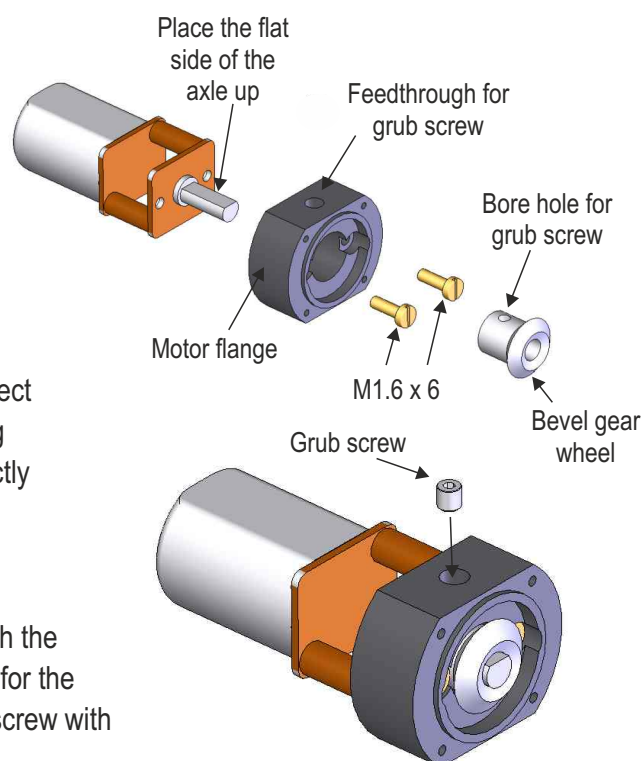
#### 1 Assembly of the motor side

##### Required components:

Quantity	Description
1	Gear motor (not included)
1	Bevel gear $m = 0.5 / z = 15$
1	Motor flange
2	Pan head screws M1.6 x 6
1	Grub screw M2 x 2

Before mounting the motor cover, the flat side of the motor axle (as shown in the picture) must be brought into the correct position. The position of the axle can be changed by turning the steel toothed wheels in the gearbox. If the axle is correctly aligned, the motor cover is screwed to the gearbox with 2 screws (M1.6 x 6 mm).

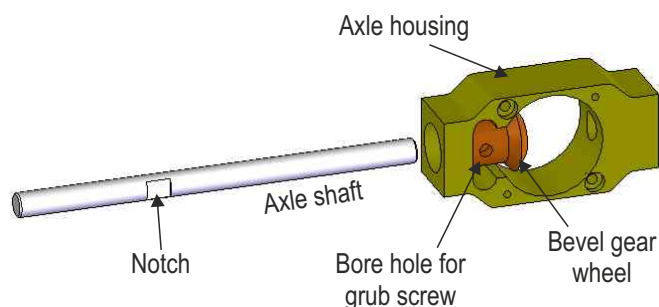
Make sure that the feedthrough for the grub screw is aligned with the flat side of the axle. Now push the bevel gear wheel onto the axle as far as it will go. The hole for the grub screw lies above the flat axle side. Screw in the grub screw with an Allen key and fix it by applying light pressure.



#### 2 Mounting the axle housing

##### Required components:

Quantity	Description
2	Axle bearings 3 x 6 x 2.5
1	Bevel gear wheel $m = 0.5 / z = 15$
1	Axle housing
1	Axle, diameter: 3 mm
1	Grub screw M2 x 2



The bevel gear is inserted into the axle housing. Then pass the axle shaft through the bevel gear. Attention: The notch on the axle must match the hole in the bevel gear.

# INSTRUCTIONS

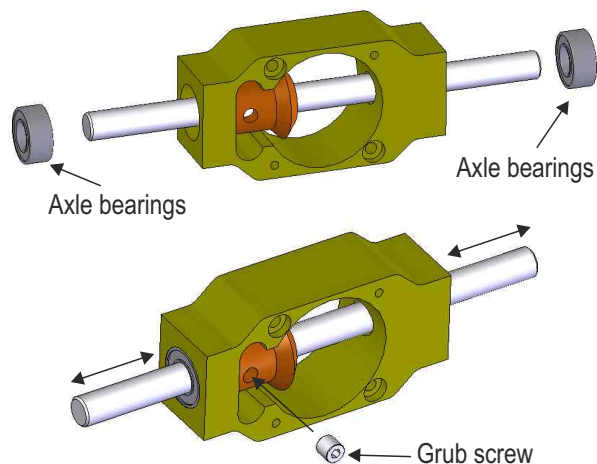
## UNIVERSAL DRIVE POWER kit G50

Order no. 88150

With metal gearbox G50, voltage range 0.3 - 6 Volt / 30 - 400 U/m

Now the axle bearings are pushed onto the shaft from both sides by applying slight pressure only. If this is difficult to do, the ends of the axle can be polished with very fine sandpaper.

After aligning the axle, the bevel gear is fixed on the axle with the grub screw. If the grub screw in the housing is grinding, the grub screw is not properly engaged in the notch of the axle. In this case loosen the grub screw and realign the gear wheel.

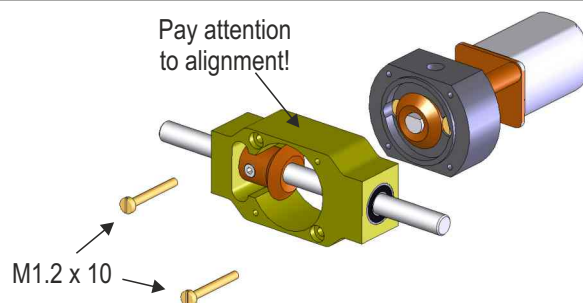


### 3 Flanging the axle housing

#### Required components:

Quantity	Description
2	Flat head screws M1.2 x 10

Using 2 screws (M1.2 x 10 mm) screw the axle housing to the motor unit. Always observe the alignment of the axle housing!

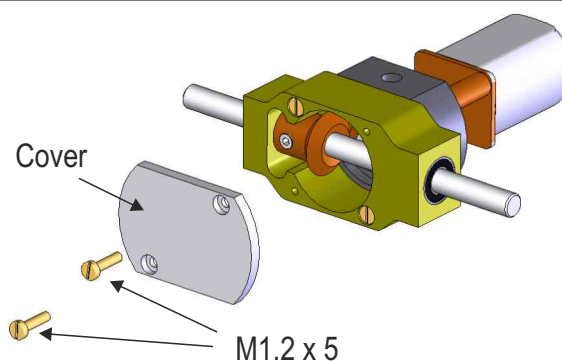


### 4 Closing the unit

#### Required components:

Quantity	Description
1	Cover
2	Flat head screws M1.2 x 5

The 2 remaining screws (M1.2 x 5 mm) are used to screw the cover to the motor unit.



#### Dimensions in mm:

