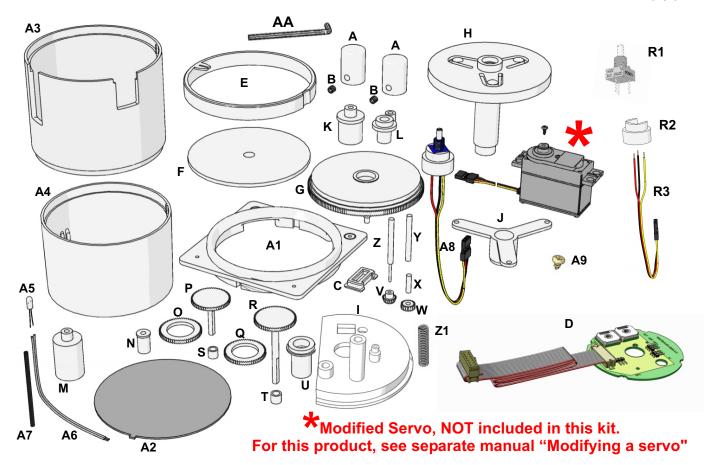


# **CONSTRUCTION MANUAL HEADING INDICATOR**

Read this manual carefully before starting construction.

Version1.2



#### Construction kit "Heading Indicator"

Your kit contains all the necessary components (except for a servomotor) for building a "Heading Indicator".

#### Fine-tuning

The calibration software allows you to accurately adjust the instrument (once connected to the Central Control Unit) to the movement of the needle of the chosen instrument.

#### Difficulty level

This product can be constructed without technical expertise. Knowledge of electronics soldering is required. Care and accuracy are of utmost importance.

#### What else do you need?

A modified servomotor, type HS300, HS311 or equivalent, is required to make the instrument fully functional (for modifying a servomotor, see the separate manual). This product can be ordered separately or bought from any retailer of model kits. Additionally you will need some simple tools, such as a small star-shaped screwdriver, a hobby knife, some pliers, a small hammer, a 1/16" (4 mm) drill, a 0.26" (6.5 mm) drill, a soldering iron (suitable for fine electronics), tin solder, insulating adhesive tape, superglue and glue suitable for plastic model kits.

#### General hints

Be very careful when using the hobby knife! You can easily hurt yourself when handling sharp objects! Take good care of the amount of glue you apply and to which areas you apply it. Glue for plastics is essentially a solvent. Excessive use can damage the exterior of the instrument.

#### Preparations prior to construction

Check if all components are included. During packing, the contents of the construction kit have been inspected several times. Nothing should be missing.

Use the hobby knife to remove any irregularities. Be careful when using the sharp hobby knife!

Construction kits come without a warranty!

#### List of components

A - Metal knob (2 x)

AA - Inbus key

B - Bolt (inbus) (2 x)

- Strain relief

- Printed Circuit Board

- Heading bug ring

F Compass card G

- Heading bug disc - Compass lower disc

- Plate

- Shaft with arms

K - Upper cap for adjusting heading bug - Lower cap for adjusting heading bug

- Upper cap rotary encoder

- Hollow gearwheel 1

N - Cap for rotary encoder assembly shaft 0

- Gearwheel with shaft, short

Q Hollow gearwheel 2 R - Gearwheel with shaft, long

- Fastening cap 1 S

- Fastening cap 2 Т

U - Servo cap

Tilted gearwheel

Straight gearwheel

Shaft for right gearwheel

Υ Shaft for cap M

Shaft for adjusting heading bug

Z1 - Spring for adjusting heading bug

A1 - Front ring

A2 - Front optical

A3 - Upper casing

A4 - Lower casing

A5 - Light

A6 - 2-Vein cord

A7 - Sleeve

A8 - Rotary encoder assembly of R1, R2, R3

A9 - Self-tapping screw for mounting PCB

R1 - Rotary encoder

R2 - Rotary encoder fitting

R3 - Rotary encoder wire



