

- Subject : Installation of transponder and aerial for transponder
- Effectivity : All DG gliders and motorgliders
- Accomplishment : For transponder installation
- Reason : To achieve perfect signal transmission the aerial should be installed according to the following instructions.
- Instructions : **1. DG single seaters:**  
1.1. All DG single seaters: outboard aerial may be installed according to drawing Z152.  
alternatively 1.1.1. outboard aerial TRANSFLEX4 according to drawing Z184  
alternatively 1.2. GRP-Gliders: inboard aerial according to drawing Z178 (not possible for DG-808S Version Competition).  
1.3. Motorgliders  
1.3.1. outboard aerial below engine compartment according to drawing Z175.  
alternatively 1.3.2. outboard aerial TRANSFLEX4 below engine compartment according to drawing Z185  
alternatively 1.3.3. outboard aerial on top of fuselage boom according to drawing Z179.  
alternatively 1.3.4. Antenna BD1 at fin shear web Z180 (only possible during production).  
**2. DG two seaters:**  
2.1 DG-500 glider and DG-1000S:  
2.1.1 Install attachment Z117 according to drawing Z118 behind the rear main bulkhead.  
alternatively 2.1.2 inboard aerial according to drawing Z178.  
2.2 DG 500 and 500MB:  
2.2.1 Install attachment Z154 at the rear panel of luggage compartment according to drawing Z151.  
alternatively 2.2.2 outboard aerial below the engine compartment according to drawing Z177.  
alternatively 2.2.3 outboard aerial TRANSFLEX4 below the engine compartment according to drawing Z187  
2.3 DG-1000T:  
2.3.1. outboard aerial below engine compartment according to drawing Z176.  
alternatively 2.3.2. outboard aerial TRANSFLEX4 below the engine compartment according to drawing Z186  
alternatively 2.3.3. Antenna BD1 at fin shear web Z181 (only possible during production).  
**3. All:** Installation of the Transponders and the aerial cable see enclosure 1 for TN DG-G-02.  
**4. All motorgliders:** Execute a new compass compensation
- Material : **1. DG single seaters:**  
1.1. 1 x Aerial Honeywell KA60, self-adhesive aluminium foil approx. 30x30cm large or aluminium foil 30x30cm and spray adhesive, 2 x fireproof rubber grommet HV D17.5. aerial cable Aircell 7, 1 x BNC-connector, 1 x BNC-elbow adapter, silicone.  
1.1.1. Aerial Funkwerk TRANSFLEX4  
2 bolts M5x20DIN965-A2, 2 washers 5,3DIN125 St zn, 2 selflocking nuts M5DIN985-8 zn, further material see 1.1  
1.2. GRP gliders: 1x transponder aerial BD1W, 1 x attachment Z178/1, 1 x pipe clamp with rubber profile DIN3016 20-15, 1 x bolt DIN912 M6x20, aerial cable Aircell 7, 1 x BNC-connector, epoxy resin and hardener, cotton-flocks.  
1.3. Motor glider  
1.3.1. 1 x aerial Honeywell KA 60, self adhesive aluminium tape 50 mm wide, 2 x fireproof rubber grommet HV D17.5, aerial cable Aircell 7, 1 x BNC-connector, 1 x BNC-elbow adapter, silicone, self-adhesive aluminium foil approx. 30x30cm large or alum. foil 30x30cm and spray adhesive.  
1.3.2. Aerial Funkwerk TRANSFLEX4  
2 bolts M5x20DIN965-A2, 2 washers 5,3DIN125 St zn, 2 selflocking nuts M5DIN985-8 zn, further material see 1.3.1  
1.3.3. same as 1.3.1, + 1 x fireproof rubber grommet HV D17.5, 8 x ty-rap 2.5 mm, 8 x self adhesive fastener for ty-rap.

- Material cont. : **2. DG two seaters:**
- 2.1 DG-500 sailplanes and DG-1000S:
    - 2.1.1 1 x aerial Becker KEC-KC-89, 1 x support Z117, 2 x mount Z90, 2x bolt M6x12 DIN912-8.8zn, 2 x washer 6,4 DIN9021 St zn, Epoxy resin with hardener and cotton-flocks, aerial cable Aircell 7, 1 x BNC-connector.
    - 2.1.2 see 1.2
  - 2.2 DG-500 and DG-500MB:
    - 2.2.1 1 x aerial Becker KEC-KC-89, 1 x washer 13 DIN125 St zn, 1 x support Z154, 4 x rivet Fero DIN7337 3x6 mm, Epoxy resin with hardener and cotton-flocks, aerial cable Aircell 7, 1 x BNC-connector.
    - 2.2.2 1 x aerial Honeywell KA 60, self adhesive aluminium tape 1 x fireproof rubber grommet HV D17.5, aerial cable Aircell 7, 1 x BNC-connector, 1 x BNC-elbow adapter, silicone, self-adhesive aluminium foil approx. 30x30cm large or aluminium foil 30x30cm and spray adhesive.
    - 2.2.3 Aerial Funkwerk TRANSFLEX4  
2 bolts M5x20DIN965-A2, 2 washers 5,3DIN125 St zn, 2 selflocking nuts M5DIN985-8 zn, further material see 2.2.2
  - 2.3 DG-1000T:
    - 2.3.1 see 2.2.2.
    - 2.3.2 see 2.2.3
- 3 All**  
Approved Transponder Mode A/C or Mode S,  
enclosure 1 for TN DG-G-02 and drawings see instructions.

Weight and balance : Execute a C.G. weighing after installation.

Remarks : Instead of the aerial Honeywell KA 60 other approved aerals built in the same way from other suppliers may be used.

The Aerial Honeywell KA60 may be replaced by the Aerial Funkwerk TRANSFLEX4 without further instructions, as the distance of the mounting holes is the same.

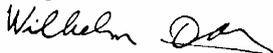
the installation must be executed by the manufacturer or by a licensed workshop and to be inspected and entered in the aircraft logs by a licensed inspector. The proper functioning of the system must be inspected by an avionics inspector class 1 with the appropriate authorisation.

This TN is only valid with a release document form DG-F-G-02 which indicates model and ser. no. of the aircraft in which the transponder shall be installed and the type of transponder to be used.

The release document must be requested from the TC holder (DG Flugzeugbau GmbH).

Bruchsal, date:  
January 17. 2008

Author: EASA approved on 25.02.2008  
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Correction a 15.06.2011