Inspection Report

This worksheet is used to supplement the BGA 267 for Transponder Maintenance tasks. Refer to BGA inspection 052/08/2011

Reg:	Type:	File Ref:
Date:	Check/Zone: Transponder Maintenance	Sheet: of

Task	Description	Mech	Insp
Part B) Maintenance (Annual inspection) (Part A is equipment installation and not covered on this form)			
1	Installation Inspect the transponder installation, aerial and mounting structure including ground plane, for integrity, security and damage.		
2	Controls and wiring Inspect all switches, controls, wiring, fuses, connectors and interfaces for integrity, security, signs of overheating and damage. Ensure all electrical wiring is correctly routed free of any moving part or control system.		
3	Displays Inspect displays and indicators, including LCD & back lights, for correct and full display of all characters, symbols and operation. Carry out test using built in test equipment (BITE) if fitted. Ensure "DATA" light illuminates (if fitted)		
4	Airworthiness Directives and Service Bulletins Review all airworthiness directives, service bulletins and technical notes relating to the installed equipment and action as required.		
Part C) Maintenance at 24 months to align with annual inspection			
5	Static inputs Carry out calibration test of encoding altimeter or altitude encoder (in situ test is acceptable) ref EASA SIB 2011-15R1. **Note:** if the results cannot be read directly from the transponder display and specialist test equipment is required this test must be certified by a BGA Inspector with RE authorisation or CAA Licensed radio engineer. Carry out leak test of static system **Note:** Calibrated test equipment required.		
6	Power supply If the battery supplying the transponder is more than 12 months old, carry out battery capacity test (see AMP Leaflet 4-9)		
7	Bonding Carry out bonding test of equipment and aerial including ground plane **Note:** Calibrated test equipment required.		
The following tests require certification by a BGA Inspector with RE authorisation or CAA Licensed Radio Engineer.			
8	Function test Carry out receive and transmit function test in accordance with equipment manufacturers information and tolerances (Component Maintenance Manual) using field test set. In the absence of manufacturers information use Appendix F to FAR 43 **Note:** The Mode 'S' checks should confirm that the aircraft assigned Mode 'S' code is correct and that any declared parameters are correct. (See G-INFO for assigned code) **Note:** Calibrated test equipment required **Note:** If the equipment manufacturer states in published literature that no maintenance testing is required and provided there is no Airworthiness Directive mandating a test, the function test (tasks 5) may be omitted if there are no adverse flight reports. Other equipment supplying data to the transponder e.g. altitude encoders or encoding altimeters not covered by the statement are required to be tested as per this instruction. The annual inspection (part B) and bi annual check (part C) as applicable, are required on all transponder installations.		

The installation, annual and bi-annual inspections with the exception of Task 5 (if applicable) and Task 8 Transponder function test may be certified by a BGA inspector with GL authorisation. Task 5 (if applicable) and Task 8 can only be certified by a BGA inspector with RE authorisation, or a CAA section L licensed radio/radar licensed engineer with paragraph 12.3 endorsement, or a Part 66 B2 licensed engineer holding an aeroplane group and without limitations 6 or 7 issued with a BGA Radio Engineer authorisation.

EASA Aircraft;

BGA Inspector or Part 66 Engineers Certificate of Release to Service (Part M M.A.801)

Certifies that the work specified, except as otherwise specified, was carried out in accordance with Part-M and in that respect that work, the aircraft is considered ready for release to service.

Signed: BGA Authorisation No: Date:

BGA Approval No. M.F. 0007.