Exchange of Radio

I. PURPOSE

Replacement of radio with approved radio (ETSO) on a plug and play basis without making changes to functionality, wiring, antenna, mounting etc. .

While first installations of radio or installation affecting also antenna , mounting, wiring etc. as standard change has limited applicability this replacement can be accepted for a wide range of GA aircraft.

II. AIRCRAFT APPLICABILITY

Sailplanes, powered sailplanes and non complex aeroplanes with a maximum take off mass below 5,7 to.

III. Installation Considerations

For the replacement of a radio the following conditions are to be met:

- The new installed radio is only a replacement of an existing and approved radio without integrated navigation with the same functionality.
- The new radio has EASA equipment approval (ETSO) covering the operational limitations of the aircraft.
- The new radio is not adversely affecting the installed equipment and systems. If the power consumption of the new equipment is higher than the consumption of the existing installation an electrical load analysis is required.
- The existing radio installation and mounting is compatible with the new radio and only standard mounting adapters are required for installation. The mass of the installed equipment has to be equal or less than the removed equipment or is within approved data for this aircraft.
- The radio is operable and readable under all probable cockpit lighting conditions.
- The existing wiring and antenna is compatible with the new device and in operable condition. An adapter supplied together with the radio might be acceptable.
- Aircraft Flight Manual Supplement and Instructions for Continued Airworthiness are required containing or referencing the equipment instructions for operation and maintenance. The ICA might be included in the AFMS.

IV. LIMITATIONS OF STANDARD CHANGE

None

V. INSTALLATION

a) Preparation
Collect all relevant information and tools to perform the modification and tests.

b) Installation Instruction
Install the radio according the installation instructions of the equipment supplier.

c) Test
The following tests have to be performed after installation

- Check of operability and readability under all probable cockpit lighting conditions
- EMI test
- Any additional test required by the equipment manufacturer

VI. MANUALS

Add the AFM supplement to the aircrafts AFM and add the ICA supplement to the aircrafts ICA.

VII. RECORDS

After completion of installation and positive result of all installation tests the modification has to be documented in the aircraft maintenance log. The records should at least contain

- Standard Change installation form
- Equipment installation instructions
- Work report
- Installation test reports
- Release form for equipment
- Updated equipment list

XII. RELEASE TO SERVICE

Release the aircraft to service stating the performance of “Standard Change IV.A-1, Chapter 1, Rev. 0, Exchange of Radio” according Commission Regulation (EC) No 2042/2004.