



بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

CIVIL AVIATION DEPARTMENT
MINISTRY OF TRANSPORT AND CIVIL AVIATION

Male'
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MALDIVIAN AIRWORTHINESS REQUIREMENTS

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**RESPONSIBILITIES OF LICENCED AIRCRAFT MAINTENANCE ENGINEERS
AND APPROVED OR AUTHORISED PERSONS OR ORGANIZATIONS**

1. General

1.1 This MAR prescribes the responsibilities of licenced aircraft maintenance engineers pursuant to CAR part 6 and MAR series E 01 for the issue of:

- a) Certificates of Maintenance Review in accordance with approved Maintenance Schedules
- b) Certificates of Release to Service for the completion of overhauls, maintenance, modifications, replacements, repairs, and inspections.

Note: Persons authorised or approved to perform the functions of a licenced aircraft maintenance engineer shall also comply with the provisions of this MAR.

1.2 A person who is appropriately licenced, authorised or approved shall not certify for the completion of work unless he has familiarised himself with all current information necessary for the work.

Note: When the work involves the assembly or any disturbance of a vital point or control system to which the MAR applies, any duplicate inspection required must be certified before the relevant Certificate of Release to Service is issued.

1.3 For the purpose of this MAR, the following definitions shall apply:

Overhaul - is a major work operation which involves dismantling, inspection and replacement of any necessary parts, reassembly and complete functional testing to specifications and renewal of operational life.

Modification- is any change made to an aircraft, engine, propeller, component, or equipment and their installation.

Replacement - is the removal of a part or component and its replacement with an identical part or component or substitution of another approved part.

Repair- is any rectification work which is not covered by any of the above definitions

Inspection- is any work necessary to determine the condition of a component, whether required by the approved maintenance schedule.

Condition- is the physical state of a part or component.

Assembly - means that items are put together, fitted, attached, installed, connected, secured, or adjusted correctly in the approved manner.

Functioning- means ensuring that components or systems operate correctly and in the approved manner.

Electronic- means a component which contains semi-conductor parts or microprocessors component.

Primary structure- means those parts of the structure which contribute significantly to carrying flight, ground or pressurization loads, the failure of which could endanger the safety of the aircraft.

2. Responsibilities of Licenced Aircraft Engineers

2.1 Subject to the rating and any limitations stated on a licence, aircraft maintenance engineers are appropriately licenced to undertake work specified in the following paragraphs and to make the required certifications in respect of maintenance, modifications, replacements repairs and inspection. There are many areas where work being carried out on an aircraft can result in other components, equipment or systems being affected. Where an overlap occurs the appropriately licenced aircraft maintenance engineer primarily responsible for the component, equipment or system must ensure that other appropriately licenced aircraft maintenance engineers certify for their area of responsibility.

2.2 Category A

2.2.1 This category is responsible for the condition, assembly and functioning of all parts of the aircraft, components, equipment and systems not included in other categories.

2.2.2 Certificate of Release to Service may be issued for any maintenance, modification, replacement, repair or inspection of components provided that the work has not involved any of the following:

- a) Bolted joints requiring special techniques
- b) Complete riveted joints in primary structures
- c) Complete glued joints in primary structures
- d) Bonded assemblies in primary structures
- e) Fibre reinforced plastic/epoxy primary structures
- f) Cotton, linen, polyester/fibre laminate fabric covering of a complete fuselage or aerofoil
- g) Welded and brazed joints
- h) Non-destructive tests except dye penetrant and boroscopic inspections.

Responsibilities of Licenced AME

i) The disturbing of individual parts of units which are supplied as bench tests units, except for the replacement or adjustment of items normally replaceable or adjustable in service where subsequent functioning may be proved without the use of test equipment used for normal functioning check.

2.2.3 Work requiring the issue of Certificates of Release to Service may also be undertaken on electrical, instrument and radio systems associated with airframe systems on which the appropriately licenced aircraft maintenance engineer is rated, provided it is also not associated with engines and auxiliary power units and is within the following limitations:

a) Electrical Systems

(i) Aircraft in Category A groups 1, 5 and 6 (single-engine rotocraft only). All work except complete overhaul, extensive modifications or new installations.

(ii) Aircrafts in Category A groups 2, 3 and 6 (twin or more engine rotocraft): Replacement of components provided that functioning checks to prove serviceability do not require the use of test apparatus.

b) Instrument Systems

Note; Certificates of Release to Service for work involving compass compensation and adjustment may not be issued unless the licence is endorsed for this purpose.

(i) Aircraft in Category A groups 1, 5 and 6 (single-engine rotocraft only): All work except complete overhaul, extensive modifications or new installations.

(ii) Aircrafts in Category A groups 2, 3 and 6 (twin or more engine rotocraft): Replacement of components provided that functioning checks to prove serviceability do not require the use of test apparatus. Integrated flight systems and electronic automatic pilot systems are excluded.

(iii) Aircraft in Category A group 4 (below 5700 Kg, MTWA): Replacement of non-electronic components provided that functioning check to prove serviceability do not require that use of test apparatus.

c) Radio Systems

Replacement of components of VHF Communication Systems installed in aircraft below 2,700 kg MTWA.

2.2 Category C

2.2.1 This category is responsible for the condition, assembly and functioning of the engine installation, rotocraft transmission, auxiliary power unit and associated operational systems or devices required for their operation.

2.1.1 Certificates of Release to Service may be issued for any maintenance modification, replacement, repair or inspection of components or parts provided that the work has not involved any of the following:

a) Dismantling of a piston engine other than to obtain access to the pistons.

b) Dismantling of main casings and main rotating assemblies of a turbine engine except where the particular engine maintenance manual provides instructions for the dismantling and replacement of main casings or rotating assemblies and

provided that suitable training on such procedure and the use of any required tool or equipment has been received.

- c) Removing or dismantling of reduction gears
- d) Dismantling of rotocraft transmission gearbox casings except performed for the purpose of the internal inspection and in accordance with the appropriate maintenance manual.
- e) Propeller balancing, except those propellers which require check balancing in accordance with the aircraft maintenance manual, and provided that suitable training on the balancing equipment and procedure has been received.
- f) Welded and brazed joints
- g) Non destructive tests except dye penetrant and boroscopic inspections.
- h) The disturbing of individual parts of units which are supplied as bench test units, except for the replacement or adjustment of items normally replaceable or adjustable in service where subsequent functioning may be proved without the use of test equipment additional to the test equipment used for normal functioning check.

2.3.3 Work requiring the issue of Certificates of Release to Service may also be undertaken on electrical and instrument systems associated with engine systems within the following limitations.

- a) Electrical systems
 - (i) Engine in category C groups 1, 2 and 3: all work except complete overhaul, extensive modifications or new installations.
 - (ii) Engine in category C groups 4,5,6 and 7 installed on aircraft below 5700kg MTWA: replacement of non-electric components provided that functioning checks to prove serviceability do not require the use of test apparatus.
- b) Instrument Systems
 - (i) Engine in Category C groups 1,2 and 3: all work except complete overhaul, extensive modifications or new installations.
 - (ii) Engine in Category C groups 4,5,6 and 7 installed on aircraft below 5700 kg, MTWA: replacement of non-electric components provided that functioning checks to prove serviceability do not require the use of test apparatus.

2.3 Category E

2.3.1 This category is responsible for the condition, assembly and functioning of all parts and components of the electrical systems, including the associated data buses and multiplexed systems. Instrument and radio systems are excluded.

2.3.2 Certificates of Release to Service may be issued for any maintenance, modification, replacement, repair or inspection of components or parts provided the work has not involved the disturbing of individual parts of which are supplied as bench tested units.

The replacement or adjustment of items normally replaceable or adjustable in service and where subsequent functioning may be proved without the use of test equipment additional to the test equipment used for normal functioning checks is permitted.

2.3.3 Work requiring the issue of Certificates of Release to Service may also be undertaken on instrument systems of category 1 Group 1 or 2 aircraft for which an electrical rating is held, within the following limitations:

- a) Replacement of electrically operated components of instrument systems where correct functioning can be established without the use of specialized test equipment.
- b) Repairs and replacement of interwiring.

2.4 Category I

2.4.1 This category is responsible for the condition, assembly and functioning of all parts and components of all indicating, recording and navigational instrument systems, automatic flight control systems, integrated flight systems, compass systems, pressurization systems and oxygen systems, including the associated data buses and multiplexed systems. Radio system instruments are excluded.

2.4.2 Certificates of Release to Service may be issued for any maintenance, modification, replacement, repair or inspection of components or parts provided the work has not involved the disturbing of individual parts of instruments of units which are supplied as bench tested units. The replacement or adjustment of items normally replaceable or adjustable in service and where subsequent functioning may be proved without the use of test equipment additional to the test equipment used for normal functioning checks is permitted.

2.4.3 Work requiring the issue of Certificates of Release to Service may also be undertaken on electrical systems of Category E group 1 or 2 aircraft for which an instrument rating is held, with the following limitations:

- a) Replacement of components in electrical systems where correct functioning can be established without the use of specialized test equipment.
- b) Repair and minor replacement of interwiring

2.5 Category R

2.5.1 This category is responsible for the condition, assembly and functioning of all parts and components of the radio communication, radio navigation and radar systems, including radio components of composite instruments, associated data buses and multiplexed systems.

2.5.2 Certificates of Release to Service may be issued for any maintenance, modification, replacement, repair or inspection of components or parts provided that work has not involved the disturbing of individual parts of radio equipment or units which are supplied as bench tested units. The replacement or adjustment of items normally replaceable or adjustable in service where subsequent functioning may be proved without the use of test equipment additional to the test equipment for normal functioning checks is permitted.

3. Responsibilities of Authorised or approved Persons or Organizations

3.1 The extent of any approval of a person to undertake and certify for maintenance, overhaul, modification, replacement, repair or inspection of components or parts will be in accordance with the terms of the approval in MAR series E 01.

Cancellation

This MAR D No. 03 hereby cancels the latest MAR No. 03 issue 01 dated 25 August 1991.

Effectivity

This MAR comes into effect on 16 January 2003.



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