



1.6 Repair and Modification Standards

1.6.1 General

- a. Modification means a change to the type design of an aeronautical product which is not a repair. Repair means the restoration of an aeronautical product to an airworthy condition as defined by the appropriate airworthiness requirement.

1.6.2 Approval

- a. GAM CAMO shall ensure that modifications and repairs incorporated in the aircraft are approved by CAAM accordingly.
- b. All design of modifications to be embodied on Malaysian aircraft shall be:
- i. approved under requirements of CAD 8104 and CAD 8105;
 - ii. validated under requirements of CAD 8108; or
 - iii. complies to the requirement of CAD 8109 para. 5.
- c. All design of repairs to be embodied on Malaysian aircraft shall be:
- i. approved under requirements of CAD 8106; or
 - ii. complies to the requirement of CAD 8110 para. 5.
- d. Any deviations to the installation / repair instructions provided by the design approval holder required during the embodiment of modification / repair shall be deemed as a revision to a modification / repair design and shall be approved accordingly

1.6.3 Compatibility

- a. GAM CAMO has the ultimate responsibility to verify compatibility with other modifications and repairs before installing any new modifications or repairs on the aircraft.
- b. The installer of the modifications / repair specified in para. 4.1 of CAD 8109 / 8110, respectively, shall survey the aircraft records and the aircraft itself to determine what other modification or repair exist on the aircraft. Any questions of incompatibility with other modifications or repairs arising from the survey shall be referred for resolution to GAM CAMO
- c. The CAMO shall provide the installer with information on all existing modification or repair to the aircraft so that compatibility may be verified. Any questions of modification / repair incompatibility which may arise during installation or in service shall be thoroughly investigated by consultation with the modification / repair design approval authority or modification / repair design approval holder
- d. In every case of incompatibility between modifications or repairs, the problem shall be corrected and it must be established to the satisfaction of the CAAM of that the modified / repaired aircraft continues to comply with the applicable standards of airworthiness



- e. GAM CAMO shall promptly report any modification / repair incompatibilities detected during installation or in service to the modification / repair design approval holder, to the installer and to CAAM..

1.6.4 Records

- a. GAM CAMO shall ensure that
 - i. the modification / repair substantiating data supporting compliance with the airworthiness requirements are retained;
 - ii. in addition to the records of design approval and return-to-service approval, the following kind of data that shall be included, as applicable:
 - 1. a master drawing list and the individual drawings, photographs, specifications and records which identify the design change and location on the aircraft;
 - 2. mass and moment change records; and
 - 3. a record of any change in electrical load caused by incorporation of the design change
 - iii. part of the records includes a STC or equivalent document, or service bulletins / structural repair manual reference, if applicable;
 - iv. the details of modifications / repairs to an aircraft and its major components retained for a minimum period of 12 months after the unit to which the records refer has been permanently withdrawn from service;
 - v. in the event of a temporary change of operator, the records shall be made available to the new operator; and
 - vi. In the event of any permanent change of operator, the records shall be transferred to the new operator
- b. When applicable, GAM CAMO shall incorporate into the existing operating data supplements to the approved aircraft flight manual, maintenance instructions, instructions for continuing airworthiness and repair instructions pertaining to a modification / repair. GAM CAMO shall record the incorporation of the required supplements in the appropriate revision logs
- c. All changes to limited life components limits, if applicable, shall be incorporated in the maintenance programme following the modification / repair design approval.