

# Academy of Model Aeronautics

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## AMA Regulations for Assembly and Operations of a Kit Built Turbine Engine for R/C and CL Models

### 1. Definition

A turbine kit engine is a production design, which is sold to the customer in disassembled form. It requires customer assembly and possibly some minor fabrication to complete. AMA considers turbine engine kits to be bolt-together products requiring simple assembly techniques and tools.

### 2. General

- A. A kit engine must have the identical specifications of a production engine.
- B. The kit must contain a manual with detailed diagrams and instructions for assembly.
- C. The manufacturer will provide specially designated Representatives who will assist and advise through the assembly process.
- D. The builder may not change, substitute or modify parts or perform alterations of the original kit by machining, welding or drilling (other than specified in the manufacturer's assembly instructions). No part or component may be altered as to effect its original design operation.
- E. The kit must contain all parts necessary to build the complete turbine engine. All components will be machined and finished by the manufacture and will not contain any castings requiring machining. No parts shall be substituted and no parts shall be provided by the builder/user.
- F. The ECU must be factory set and the manufacturer must make services available for final check out and engine balancing if the builder desires.
- G. All electronic setting shall be preset to assist in initial start-up. All operating procedures must be performed in accordance with the current *Safety Regulations for Model Aircraft Gas Turbines*.
- H. The initial test start-up shall be performed in a controlled environment, defined as an outdoor location, away from buildings and/or vehicles, with a minimal number of turbine-experienced or trained personnel present to assist. An alternate option is to return the engine to the factory or designated representative for final inspection, calibration and a test run.

**All kit built turbine operations have to be in accordance with the current  
*AMA Safety Code and Safety Regulations for Model Aircraft Gas Turbines.***