# SECTION 1. INTRODUCTION

1-1. This manual contains the necessary information for the major overhaul of the Avco Lycoming borizon-tally installed direct drive engines. Unless otherwise noted, all information and data in the manual will apply equally to all models; those portions of the text applying to any one particular model or series will be so identified.

1-2. The main portion of the text is divided into sections corresponding to the basic engine components. Additional sections are provided for general description, general overhaut and inspection procedures, preservation and storage information, and other items of a non-specific nature.

1-3. The tools required for overhauling the engines (excluding the ordinary mechanic's tools found in most overhaulshops) are listed in SSP-2172 Special Service Tools. Inspection gages are also listed in the same section. Any special information required concerning these tools may be obtained by writing to the Service Department, Avco Lycoming Division, Williamsport, Pennsylvania, 17701. When requesting information concerning any of these tools, refer to the tool by name and part number and not mercely by name.

1-4. Parts catalogs, for specific models, may be ordered from the department listed in paragraph 1-3. Because this manual covers the entire series of engines, it is almost impossible to call out attaching parts for specific models. Therefore, it is recommended that the parts catalogs be used in conjunction with the manual, when reassembling the engine. 1-5. Service bulletins, service instructions and service letters are issued from time to time whenever the engine is modified or overhaul procedures revised. When received, these publications should be inserted in the rear of this manual or maintained in a separate file for ready reference.

1-6. The following procedure should be followed if, for any reason, parts are to be returned to the factory. You may obtain from, but preferably have your distributor complete, the applicable warranty or rework form. These forms must include the engine model and serial numbers, number of hours in service, the reason for the parts being returned and any other pertinent facts concerning the parts.

1-7. In this manual all references to locations of various components will be designated when viewing the engine from the rear. The power take off end is considered the front and the accessory drive end the rear. The oil sump is considered the bottom. Cylinders are numbered from front to rear with odd numbered cylinders on the right side.

1-8. The direction of rotation of the crankshaft, as viewed from the rear, is clockwise on all models with the following exception. The direction of rotation of the crankshaft, as viewed from the rear is counter-clockwise on all models with the letter L in the model prefix. (Example - LIO-320-BIA). All references to direction of rotation of the various accessory drives are as viewed facing the accessory drive mounting pad.

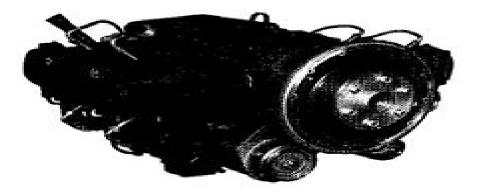


Figure 1-1. Typical 4 Cylinder Engine

# **Lycoming Direct Drive Aircraft Engines Overhaul Manual**

**Avco Corporation. Lycoming Division** 

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