



SERVICE NEWS

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AIRCOOLED MOTORS INC.
SYRACUSE 8, NEW YORK

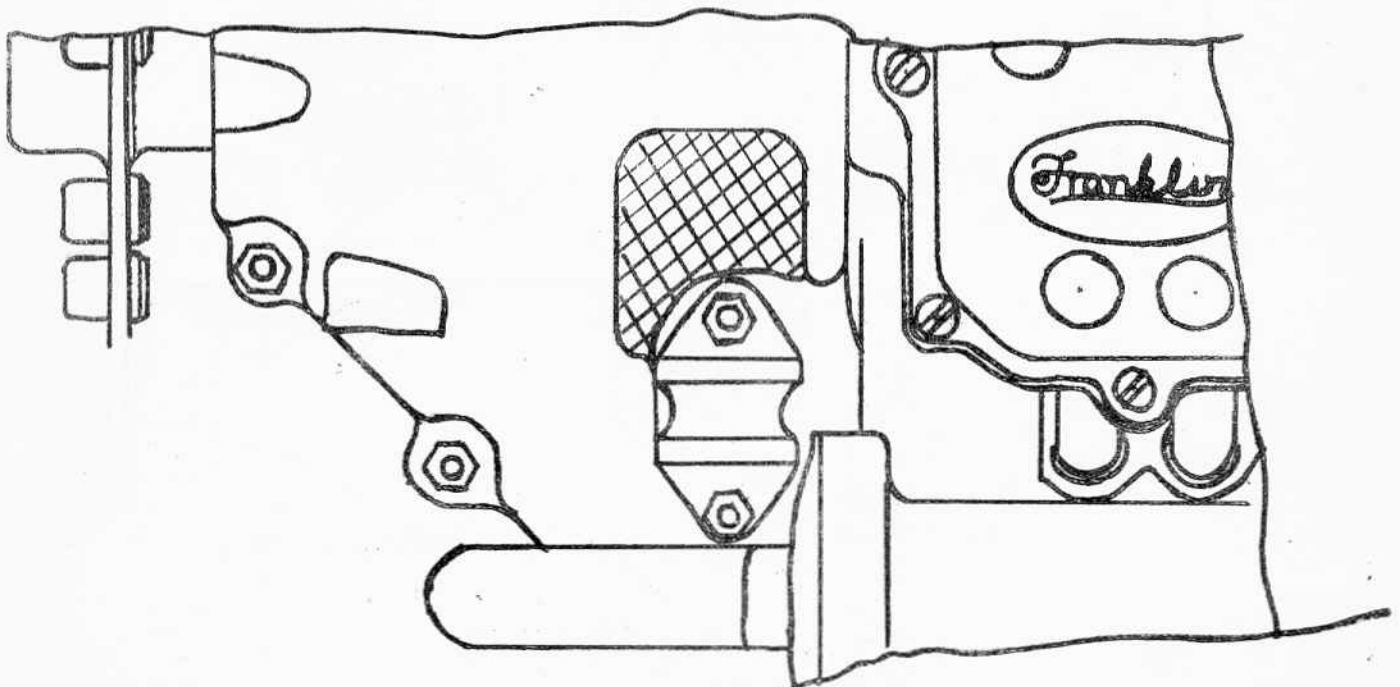
NO. 19

SUBJECT: MODIFICATION OF FRANKLIN MODEL 6A4-150-B3 ENGINES TO PROVIDE FOR USE OF AN OIL CONTROL PROPELLER

The 6A4-150-B3 engines can be modified by reworking the crankcase and crankshaft to provide for use of an oil control propeller if the crankcase has a machined surface for the propeller governor.

Figure One shows the nose end of the left half of the crankcase. If the crankcase has a flat machined surface (shaded area of Figure One) above the engine mount bracket pad, the crankcase can be modified. If there is no machined surface above the mount bracket pad, the modification cannot be completed.

FIGURE ONE



The modification requires complete disassembly of the engine.

The crankshaft must be reworked by drilling an oil passage to transfer oil from No. 4 main journal to the flange end of the crankshaft. The flange end of the crankshaft must be ground to provide for installation of a plug.

Three passages must be drilled in the crankcase to direct oil to the governor control. Drilling and tapping must be provided for mounting the governor.

Special drill fixtures are required to accomplish the modification. The Service Overhaul and Repair Department of Aircooled Motors, Inc. is equipped to handle the modification of engines returned for factory major overhaul or of individual parts.

Upon completion of the modification, propeller end crankshaft bushings, part numbers 17665 and 17666, or comparable undersize bushings, must be installed at time of assembly.