



REPUBLIC AVIATION CORPORATION  
FARMINGDALE, LONG ISLAND, NEW YORK  
• • • SERVICE DEPARTMENT • • •

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### CARBURETOR HEAT OPERATION

The Carburetor Heat Control should be either fully ON or fully OFF. Do not use an intermediate position as excessive loss of engine RPM may result.

Flight tests have shown that a loss of as much as 700 RPM may be experienced if the control is opened only half to three-quarters of the full travel whereas with the control fully ON the RPM loss is only 150 to 250.

The danger of excessive RPM loss, especially on take-off is readily apparent. As the power developed by the engine is a function of the RPM, a loss of 500 to 700 RPM may result in sufficient loss of power to prevent a normal take-off. It is therefore advised that all take-offs, except under abnormal conditions, be made with the Carburetor Heat fully OFF.

Do not use Carburetor Heat unless absolutely necessary. The Franklin engine does not require carburetor heat except under severe atmospheric conditions.

W. H. Ehmman  
Service Manager