

ROTORCRAFT FLIGHT MANUAL SUPPLEMENT

FOR BELL Model 47D-1

This supplement must be attached to the Bell 47D-1 Rotorcraft Flight manual dated March 29, 1949, when the helicopter is modified in accordance with STC No. SH529SW. The information contained herein supplements the information of the basic rotor flight manual; for limitations, procedures and performance data not contained in this document, consult the manual proper.

I. LIMITATIONS

Powerplant Limitations - Franklin Model 6V-350-A

1. Fuel, octane----- 100/130
2. Idling, RPM----- 1500 to 1700
3. Operating RPM----- 2900 to 3100
4. Oil Pressure----- 55 to 80 psi
5. Cylinder head temperature----- 199°C
6. BHP - SL to 4500 ft.----- 200 HP max.
7. Maximum Allowable Manifold Pressure:

Press. ALT. Ft.	-20°C (-4°F)	-5°C (23°F)	+5°C (41°F)	+15°C (59°F)	+25°C (77°F)	+40°C (104°F)
SL	24.4	25.1	25.5	25.9	26.3	26.8
1000	24.1	24.7	25.2	25.6	26.0	26.6
2000	23.9	24.6	25.0	25.4	25.8	26.4
3000	23.7	24.4	24.8	25.2	25.6	F. T.
4000	23.5	24.1	24.6	25.0	F. T.	F. T.
5000	23.2	23.9	F. T.	F. T.	F. T.	F. T.

Placecards - Same as Allowable Manifold Pressure Table above, Item 7.

Type of Operation

This engine installation is approved for the Bell 47D-1 with floats or skids only.

Table of Instrument Markings

Manifold Pressure Gage	Red Line	26.8 in Hg. (Max.)
Oil Temperature Engine	Red Line	113°C (Max.)
	Green Arc	40° - 113°C
Oil Temperature Trans-	Red Line	130°C (Max.)
mission	Green Arc	40° - 130°C

II. OPERATION PROCEDURES:
(Same as basic Manual)

III. PERFORMANCE:

The performance of the helicopter with this engine installed is equal to or better than that shown in the basic manual.

FAA APPROVED

for 
H. H. Slaughter
Chief, Engineering and
Manufacturing Branch
Southwest Region
Fort Worth, Texas

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