

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

E-280-1
HILLER
8RJ2B

December 17, 1954

AIRCRAFT ENGINE SPECIFICATION

Engines of models described herein conforming with this specification and approved data on file with the Civil Aeronautics Administration are rated as airworthy for use in certificated aircraft in accordance with pertinent aircraft specifications and the manufacturer's installation, operation, repair, and overhaul instructions.

Manufacturer	Hiller Helicopters Palo Alto, California
Model	8RJ2B
Type	Ramjet
Ratings	
Take-off and Maximum Continuous static thrust, lbs., equivalent rotor rpm, at sea level	39-550-S.L.
Fuel	Gasoline, Automotive Regular Grade (Federal Grade 72)
Dimensions	21.2
Length, in.	8.4 (exclusive of mounting tab)
Diameter, in.	
Weight, lbs.	13.0
C.G. location	On engine axis in line with mounting tab holes
Ignition system	Champion V21-X1 spark plug with aircraft mounted energizer
Certification basis	Type Certificate No. 280

NOTE 1. The rated thrust output value is based on static operation on the Hiller 5.5 inch free air jet test stand operating at 662 ft./second airspeed at sea level standard conditions of 59°F and 29.92 in.Hg. ambient air and 65 gph (400 lbs. per hr.) fuel flow. This thrust value is also corrected for the fuel pumping loss incurred when the engine is operated on a 23 ft. diameter rotor at 550 rpm.

NOTE 2. Fuel inlet pressures of 5 to 40 psi are required for supplying fuel through the rotor head fuel transfer gland.

NOTE 3. This engine is used tip mounted on the 23 ft. diameter rotor blades in the Hiller HJ-1 helicopter. It is operated governor controlled at all flight speeds.

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Page No.	1
Rev No.	-

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