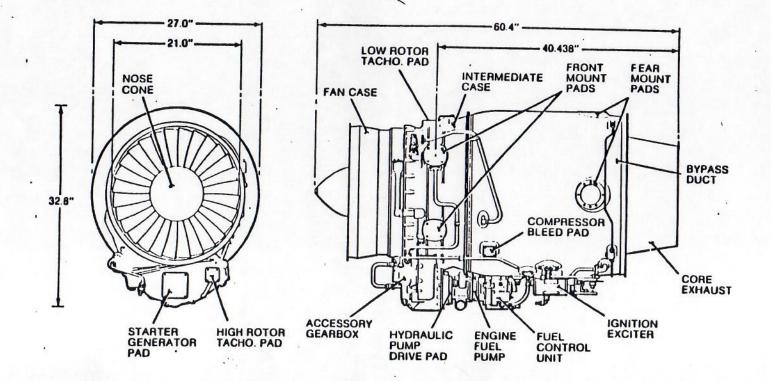
JT15D



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Engine dry weight (with standard equipment): 557 lbs.

PROPULSION DATA

The attached data are based on the Pratt & Whitney JT15D-5(M) engine which was a candidate for several of the twin-engine all-new VTX designs. Other versions of the JT15D are in use today in various models of business aircraft. The data are for use in the Bendix design competition only; they include some simplifications and approximations for the convenience of the student.

Scaling

If a pair of JT15D engines, as defined in these data, proves to be significantly off-optimum for the students' design, the data may be scaled for the purposes of this competition. The scaling factor would be defined as the ratio of the desired maximum sea level static thrust to the reference sea level static thrust (3060 lb.). Weight, fuel flow, air flow, and engine length should be assumed to vary in direct proportion to the scale factor. Engine diameter will vary as the square root of the scale factor.

Losses

The attached performance data is <u>installed</u>, including typical bleed and mechanical power extraction losses.

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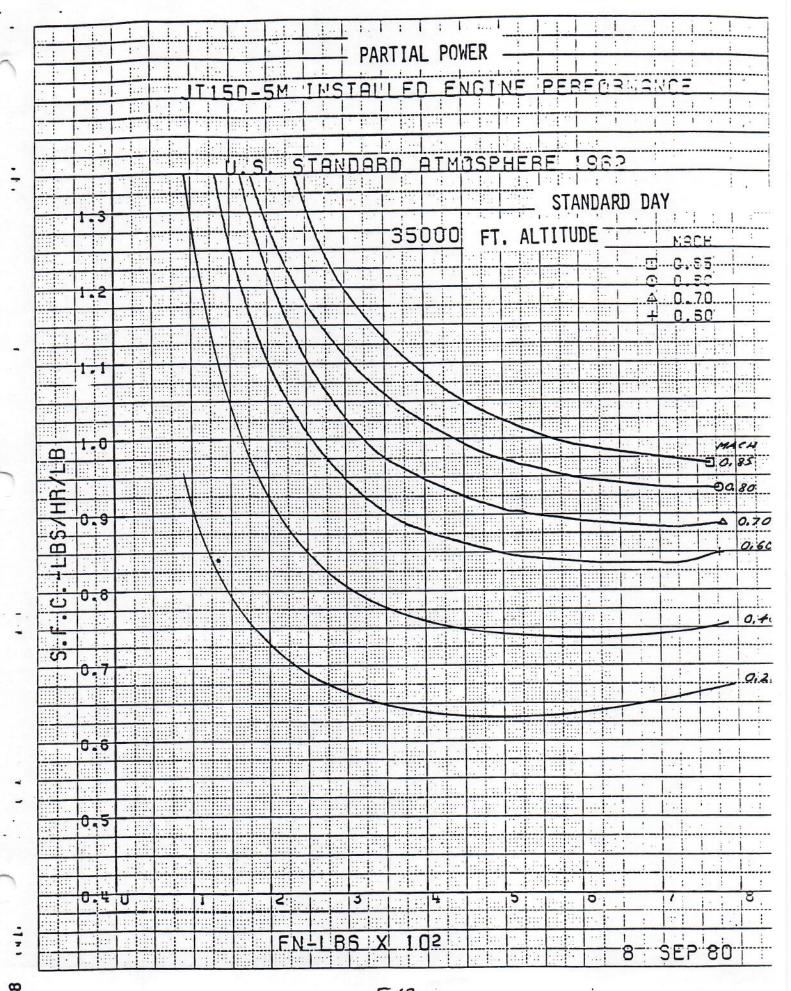
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