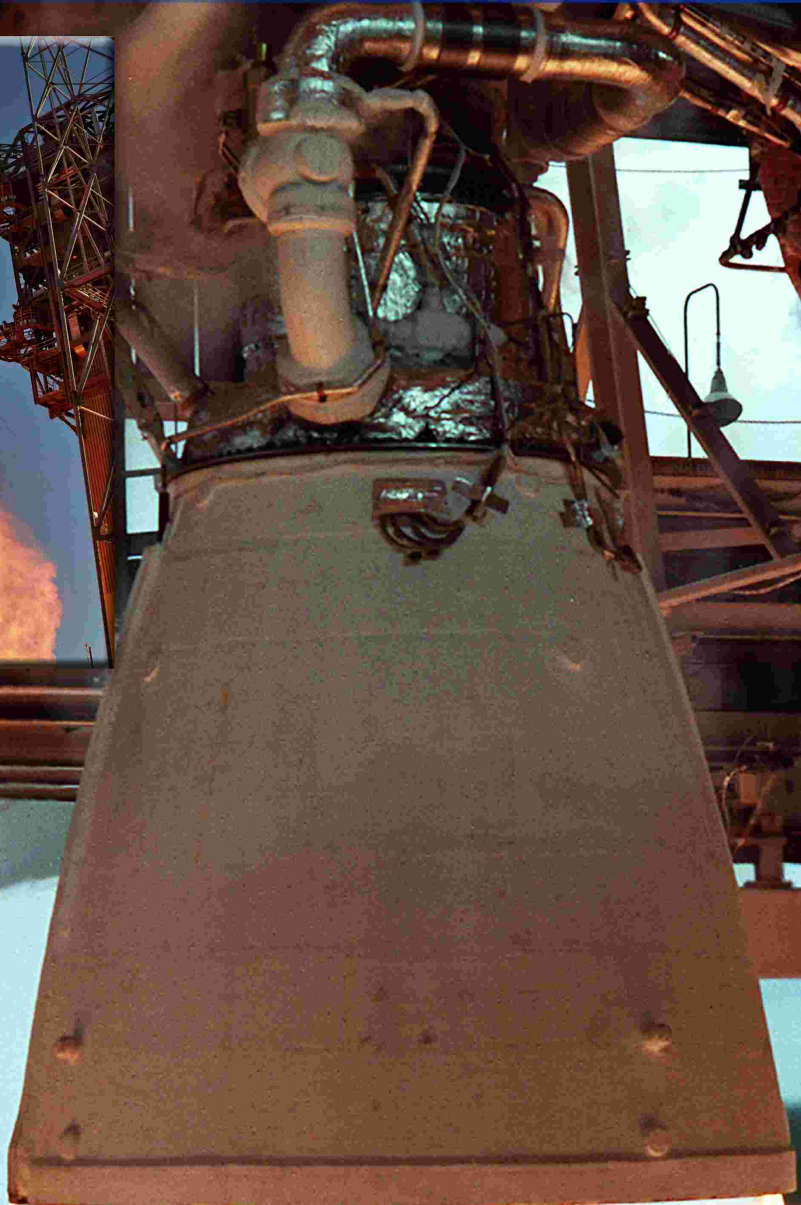


RS-68

Propulsion System



Pratt & Whitney Rocketdyne

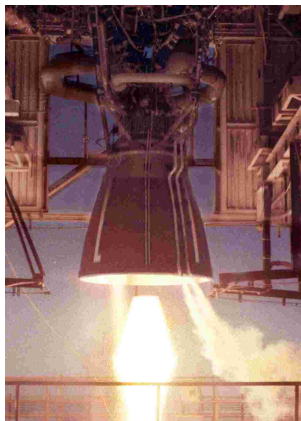


Pratt & Whitney

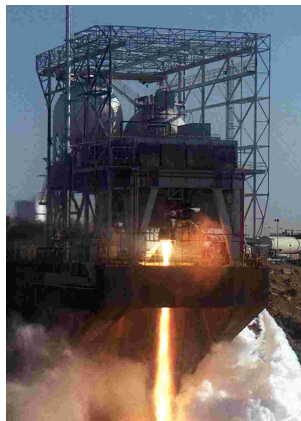
A United Technologies Company

RS-68

Propulsion System



*RS-68 test stand,
Edwards AFB, CA*



*Engine hot-fire test, Air Force
Research Lab, Edwards AFB, CA*



RS-68 hot-fire test at Stennis Space Center, MS



RS-68 mated to Delta IV Common Booster Core, Decatur, AL

Overview:

The RS-68 is a throttlable liquid hydrogen-liquid oxygen booster engine for the Boeing Delta IV family of launch vehicles. The engine utilizes a simplified design philosophy resulting in a drastic reduction in parts compared to current cryogenic engines. This design approach results in lower development and production costs.

Specifications

Thrust, vacuum:	758 Klbf
Thrust, sea level:	663 Klbf
Chamber Pressure:	1488 psia
Engine Mixture Ratio:	5.97
Isp, vacuum:	409 sec
Isp, sea level:	359 sec
Expansion Ratio (E):	21.5
Weight:	14,876 lb



Pratt & Whitney

A United Technologies Company