

Picture Story No. 703

### MIGHTIEST U. S. ROCKET ENGINE TESTED

Progress toward manned flights to the moon and distant planets is seen in the successful performance of F-1, the mightiest rocket engine ever developed in the United States. In more than 25 recent test-stand firings, the new single-chamber liquid-propelled engine has met and even exceeded its designers' power goal of 1,500,000 pounds (680,000 kilograms) of thrust. After flight tests in 1963, the F-1 is expected to become the nation's basic booster engine, with the power and versatility to advance space flight during the next decade.

5-10 At night under the lights, the thrust chamber and nozzle of the F-1 (lower left) glow brightly in their cradle on the test stand. In captive tests, this engine has demonstrated four times the thrust of the Atlas ICBM and 20 times the thrust of the Redstone rocket engine which launched the first U. S. astronauts on their suborbital journeys into space. (61-13325)



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