

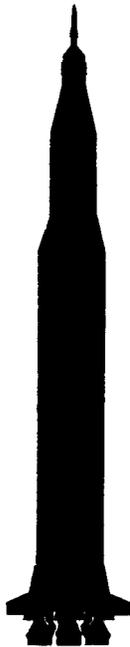


news

REFERENCE

ADDENDUM

Since the printing of this book, additional refinement of data has indicated that the overall height of the Saturn V should be 363 feet, not 364 as stated in the body of the publication.



SATURN V NEWS REFERENCE

AUGUST 1967

National Aeronautics and Space Administration
George C. Marshall Space Flight Center
John F. Kennedy Space Center

The Boeing Company
Launch Systems Branch

McDonnell Douglas Astronautics Company

International Business Machines Corporation
Federal Systems Division

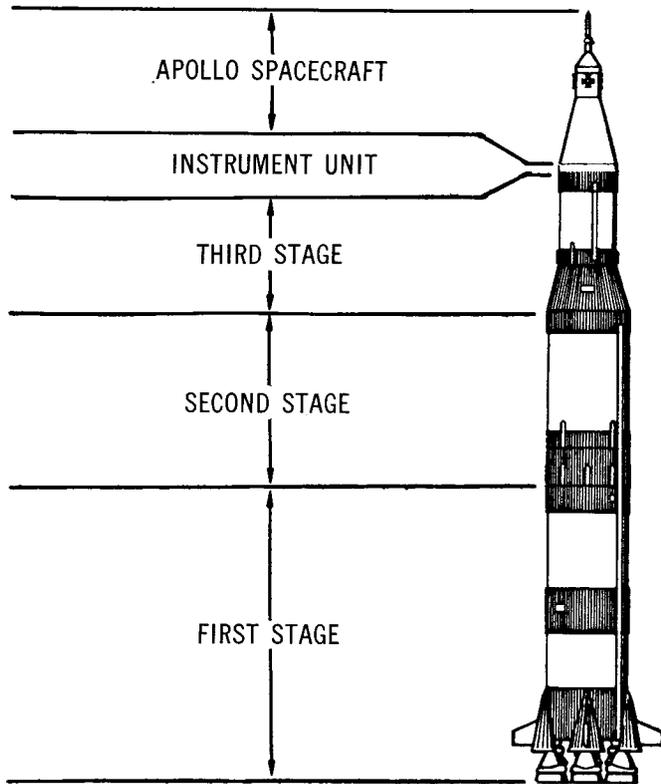
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SATURN V FACT SHEET



PHYSICAL CHARACTERISTICS

OVERALL VEHICLE	DIAMETER	HEIGHT	WEIGHT
	33 ft.	363 ft.*	6,262,500 lb. (total liftoff)
FIRST STAGE	33 ft.	138 ft.	303,000 lb. (dry)
SECOND STAGE	33 ft.	81 ft. 7 in.	99,200 lb. (dry)**
THIRD STAGE	21 ft. 8 in.	58 ft. 7 in.	33,600 lb. (dry)**
INSTRUMENT UNIT	21 ft. 8 in.	3 ft.	4,500 lb.
APOLLO SPACECRAFT		80 ft.	98,000 lb.

*SINCE INDIVIDUAL STAGE DIMENSIONS OVERLAP IN SOME CASES, OVERALL VEHICLE LENGTH IS NOT THE SUM OF INDIVIDUAL STAGE LENGTHS

**INCLUDES AFT INTERSTAGE WEIGHT

PROPULSION SYSTEMS

- FIRST STAGE —Five bipropellant F-1 engines developing 7,500,000 lb. thrust
 RP-1 Fuel—209,000 gal. (1,400,000 lb.), LOX—334,500 gal. (3,178,000 lb.)
- SECOND STAGE—Five bipropellant J-2 engines developing more than 1,000,000 lb. thrust
 LH₂—275,000 gal. (159,500 lb.), LOX—84,750 gal. (805,500 lb.)
- THIRD STAGE —One bipropellant J-2 engine developing up to 225,000 lb. thrust
 LH₂—69,500 gal. (39,750 lb.), LOX—20,150 gal. (192,250 lb.)

CAPABILITY

- FIRST STAGE —Operates about 2.5 minutes to reach an altitude of about 200,000 feet (38 miles) at burnout
- SECOND STAGE—Operates about 6 minutes from an altitude of about 200,000 feet to an altitude of 606,000 feet (114.5 miles)
- THIRD STAGE —Operates about 2.75 minutes to an altitude of about 608,000 feet (115 miles) before second firing and 5.2 minutes to translunar injection
- PAYLOAD—280,000 lb. into a 115 statute-mile orbit, 100,000 lb. to the moon.

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FOREWORD

This volume has been prepared by the five Saturn V major contractors: The Boeing Company; McDonnell Douglas Astronautics Company; Space Division of North American Rockwell Corporation; Rocketdyne Division of North American Rockwell Corporation; and International Business Machines Corporation in cooperation with the National Aeronautics and Space Administration.

It is designed to serve as an aid to newsmen in present and future coverage of the Saturn V in its role in the Apollo program and as a general purpose large launch vehicle. Every effort has been made to present a comprehensive overall view of the vehicle and its capabilities, supported by detailed

information on the individual stages and all major systems and subsystems.

Weights and measurements cited throughout the book are average figures. They may vary from mission to mission to meet differing requirements.

All photographs and illustrations in the book are available for general publication. The first letter in each photo number is a code identifying the organization holding that negative: B for Boeing; R for Rocketdyne Division of North American; D for Douglas; IBM for IBM; S for Space Division of North American; H for NASA, Huntsville, Ala.; and K for NASA, Kennedy Space Center, Fla.

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