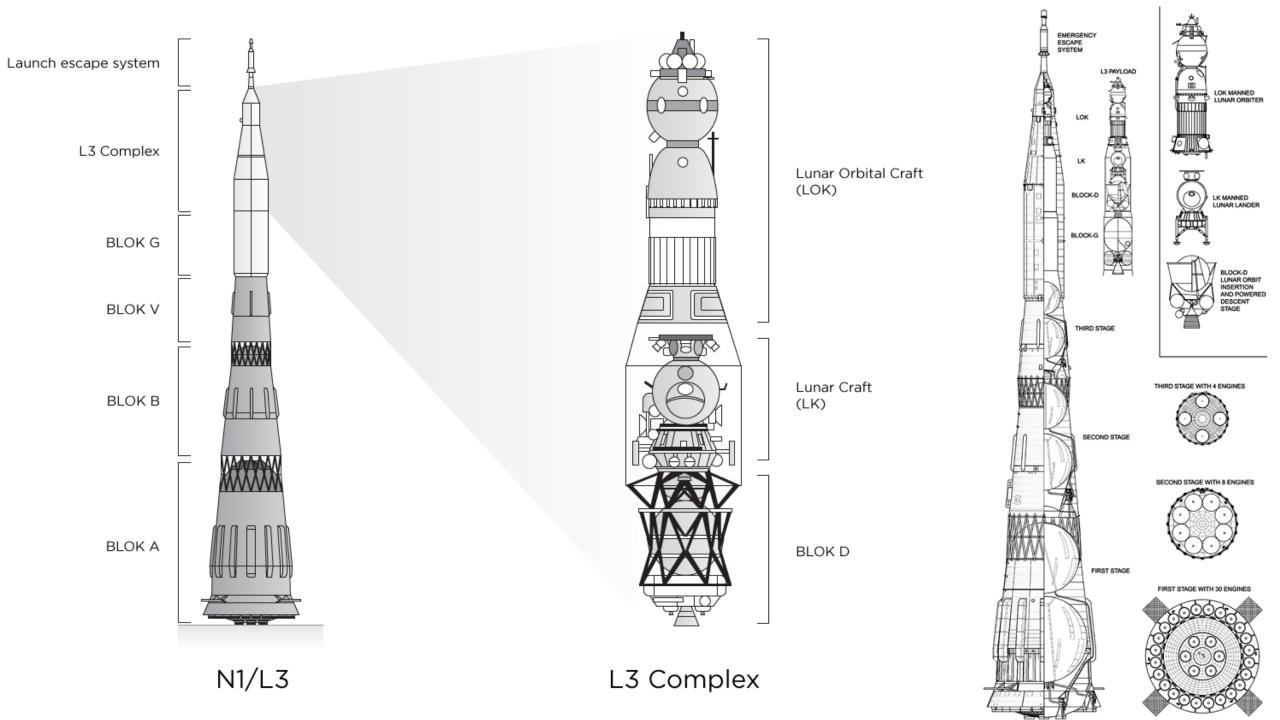
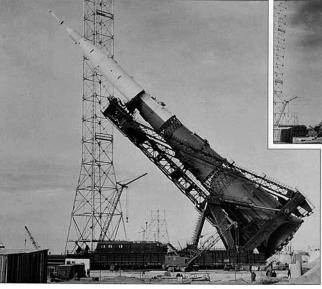
The Soviet Lunar Landing Program

HONR 269i

To the Moon and Back: The Apollo Program



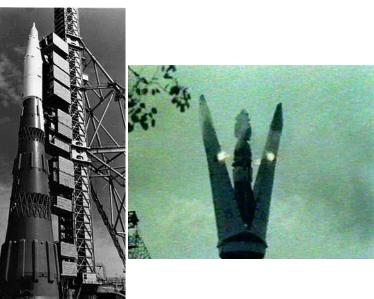




опстемально на пусковое устройство. Транспортно-установочное устройство не отведено

Установка системы Н1-ЛЗ на пусковое устройство



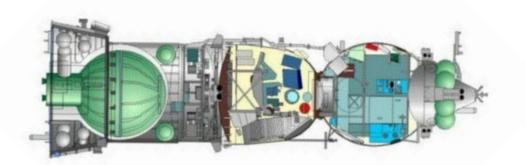


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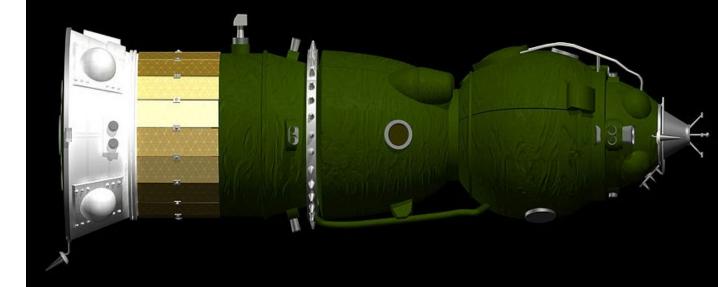


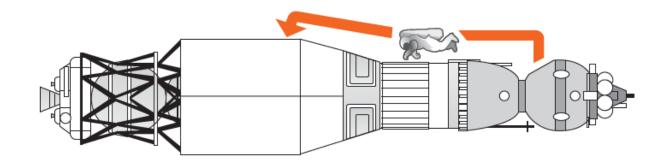


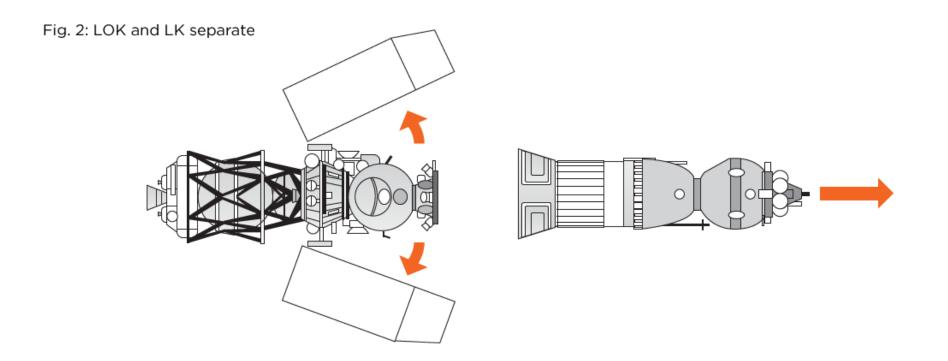
монтажно-испытательном корпусе, готовая к вывозу на старт



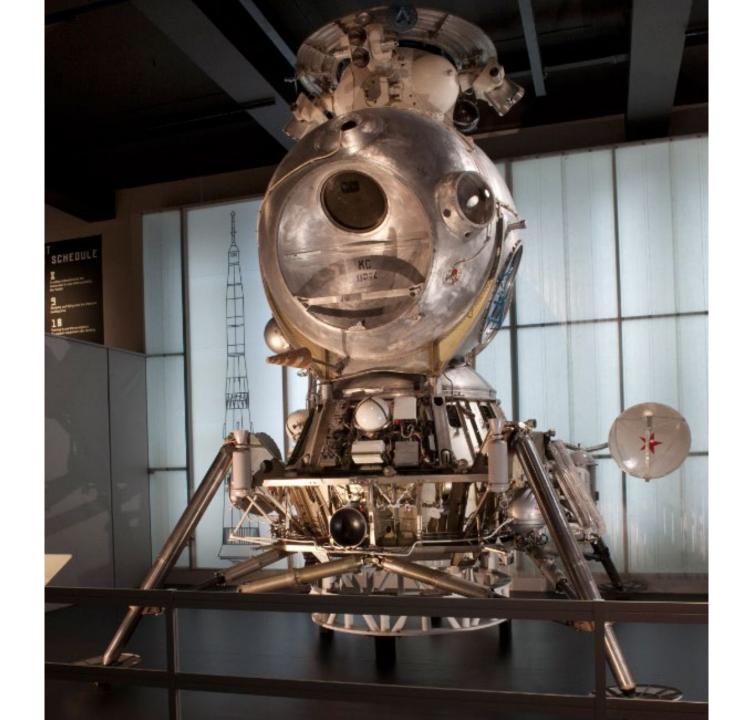


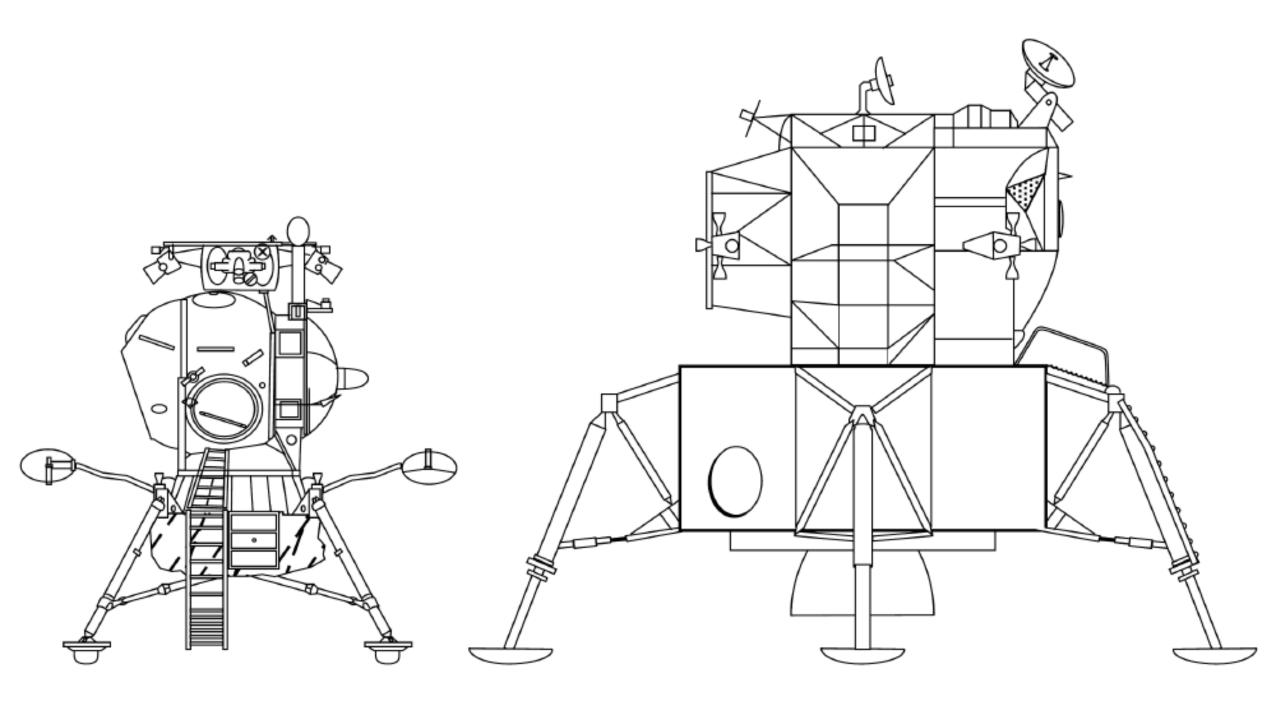












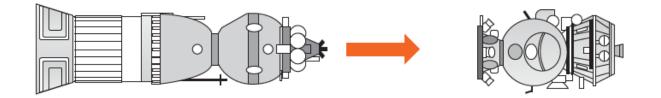


Fig. 4: Cosmonaut transfers from LK to LOK

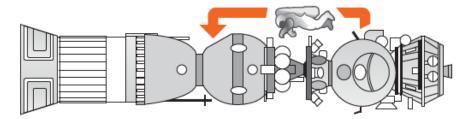
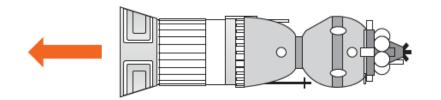
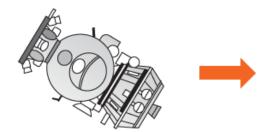
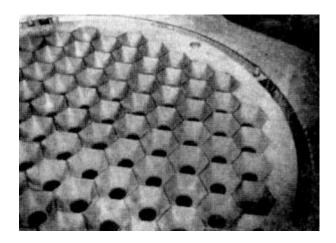
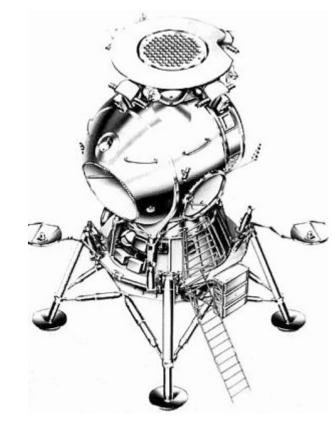


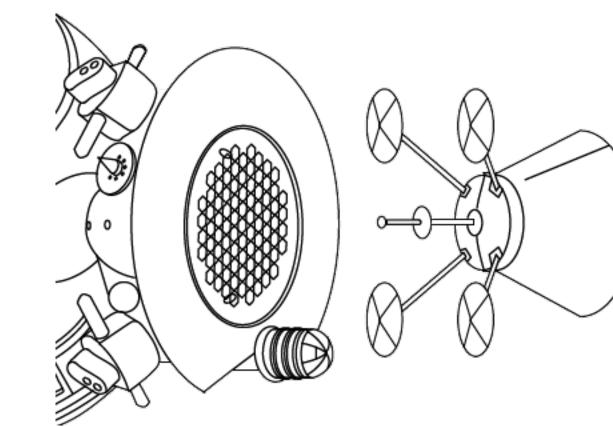
Fig. 5: LK is discarded

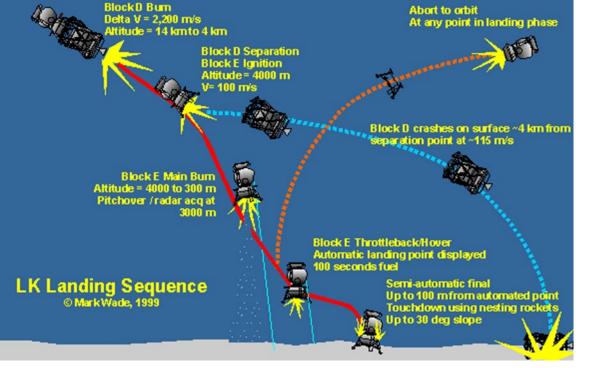


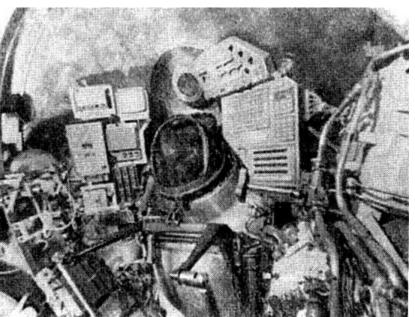


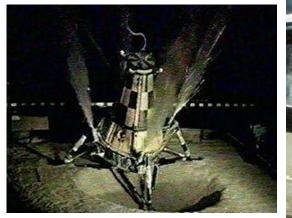


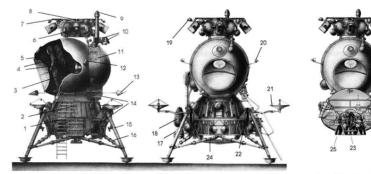












Landing and Surface Configuration

Ascent Configuration

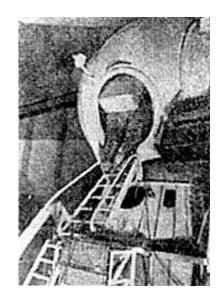
1. Lunar Landing Aggregate - LPU 2. Rocket Block E 3. Cosmonaut Cabin 4. Life Support System Equipment 5. Visual Observation Port For Landing 14. Power Supplies 6. Block Of Attitude Control Engines 7. Thermal Control System Radiator 8. Docking Mechanism 9. Targeting Sensor

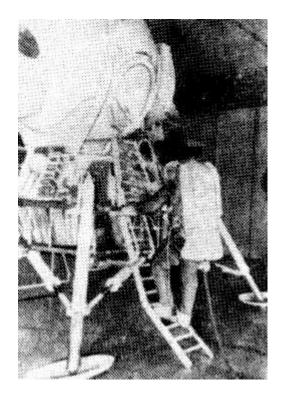
10. Alignment Sensors 11. Instrumentation Compartment 12. TV Camera 13. Omni-Directional Antennas 15. Support Leg With Shock Absorber 16. Strut With Shock Absorber 17. Landing Radar Locator 18. Strap-On Instrumentation Compartment

19. Omni-Directional Antennas 20. Rendezvous System Antennas 21. TV Antennas 22. Pressing Engine 23. Main engine 24. Reflector 25. Backup Engine









Lunar Landing Program Flights

- Feb 1969 Uncrewed N1 test (first stage failure)
- Jul 1969 Uncrewed N1 test (first stage failure, destroyed launch pad)
- Nov 1969 Uncrewed Block D test (first stage failure)
- Nov 1970 Cosmos 379: Uncrewed LK test
- Dec 1970 Cosmos 382: Uncrewed Block D test
- Feb 1971 Cosmos 398: Uncrewed LK test
- Jun 1971 Uncrewed N1 test (first stage failure failure)
- Aug 1971 Cosmos 434: Uncrewed LK test
- Nov 1972 Uncrewed N1 test (first stage failure)



Discussion Groups

- Siddiqi Chapter 15 ("Final Lap to the Moon")
 - The Soviet space program between Apollo 1 and Apollo 11
- Chertok Chapter 3 ("N1-L3 Lunar Program Under Korolev")
 - The origins of the Soviet lunar landing program
- Chertok Chapter 10 ("1969—The First N-1 Launch")
 - The first attempt to launch the Soviet moon rocket
- The Engines that Came in from the Cold video
 - The rebirth of the N1's engines in American rockets