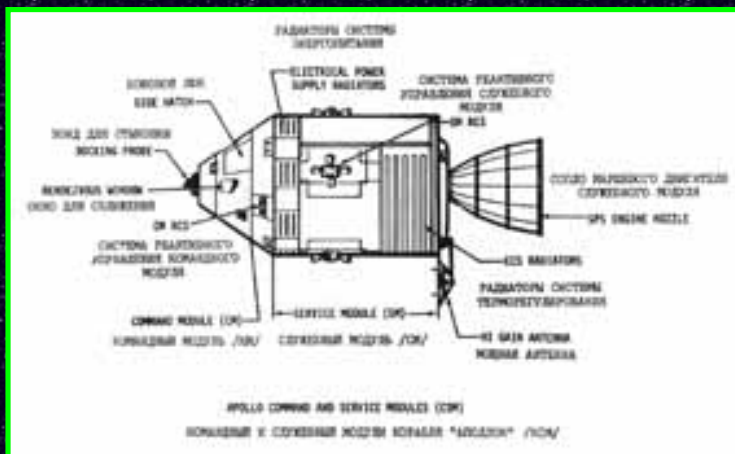




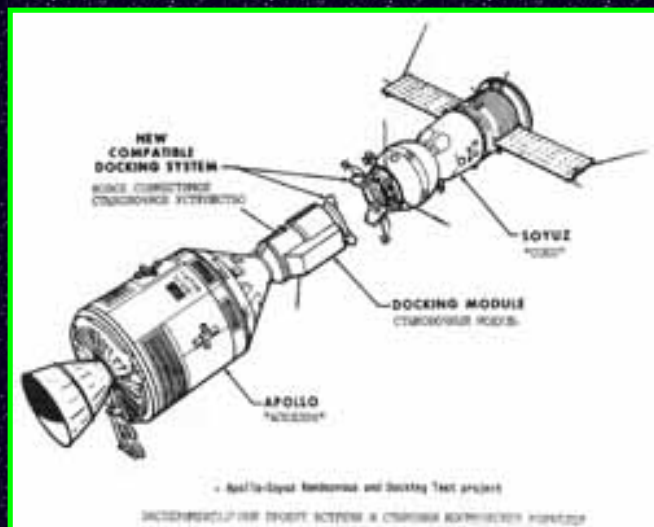
National Aeronautics and Space Administration  
Office of Policy and Plans  
NASA History Office

# Project Apollo-Soyuz Drawings and Technical Diagrams



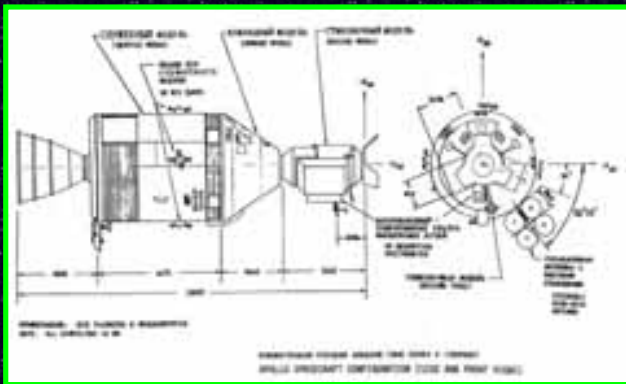
APOLLO COMMAND AND SERVICE  
MODULES (CSM)

From: Apollo-Soyuz Test Project Press kit (p68)



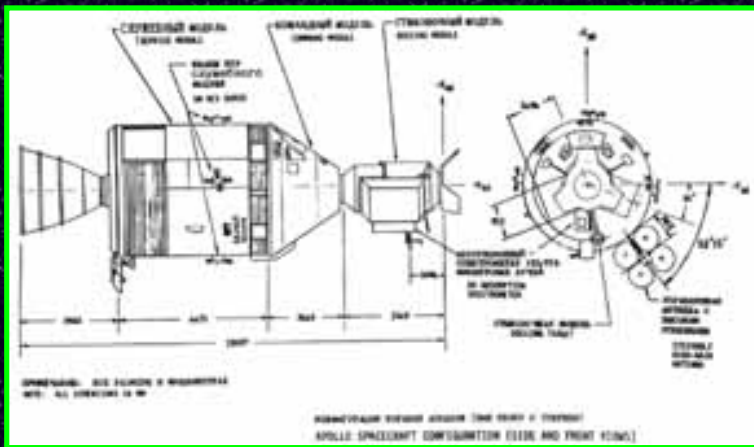
APOLLO-SOYUZ RENDEZVOUS AND  
DOCKING TEST PROJECT

From: Apollo-Soyuz Test Project Press kit (p69)



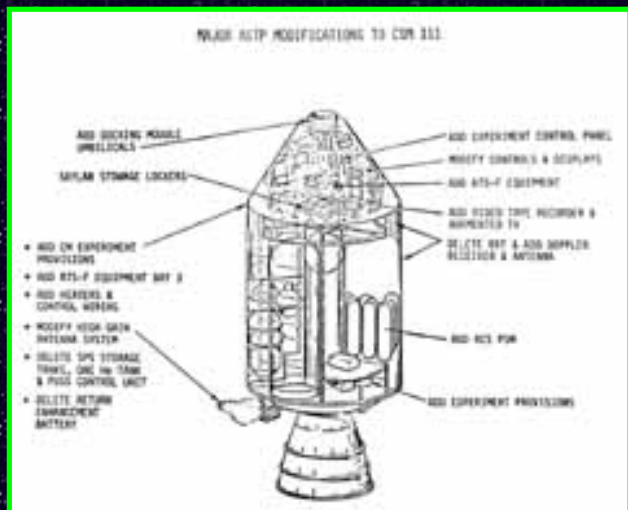
**APOLLO SPACECRAFT  
CONFIGURATION (SIDE AND  
FRONT VIEWS)**

From: Apollo-Soyuz Test Project Press kit (p70)



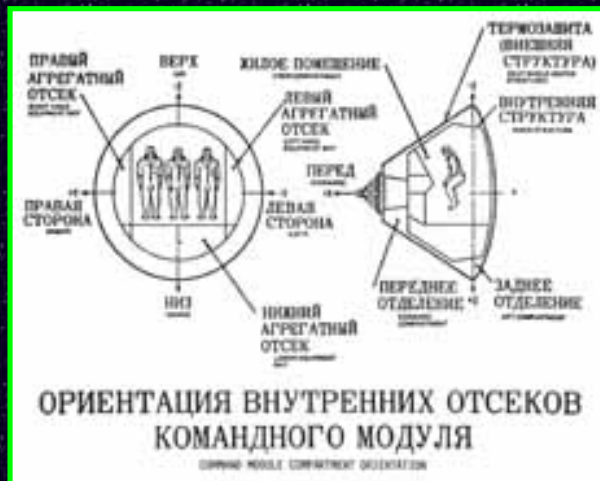
**APOLLO SPACECRAFT CONFIGURATION  
(TOP AND FRONT VIEWS)**

From: Apollo-Soyuz Test Project Press kit (p71)



**MAJOR ASTP MODIFICATIONS TO  
CSM 111**

From: Apollo-Soyuz Test Project Press kit (p72)



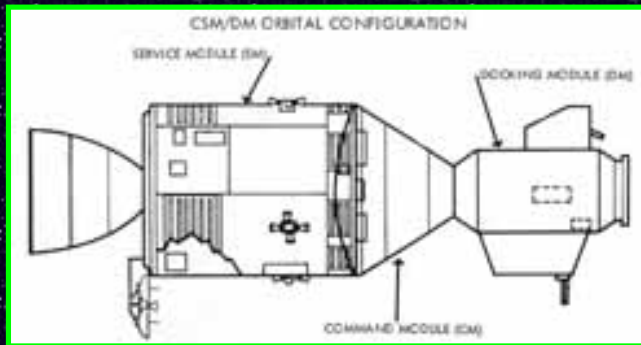
**COMMAND MODULE COMPARTMENT  
ORIENTATION**

From: Apollo-Soyuz Test Project Press kit (p73)



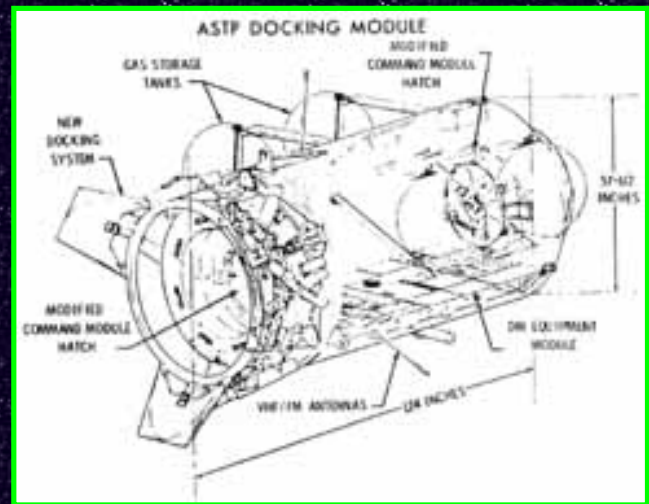
**CM GENERAL ARRANGEMENT**

From: Apollo-Soyuz Test Project Press kit (p74)



**CSM/DM ORBITAL CONFIGURATION**

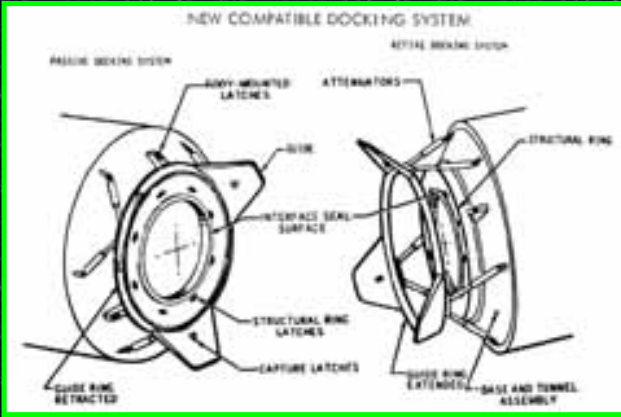
From: Prelaunch Mission Operation Report No. M-966-75-01,  
July 7, 1975, page 8



**ASTP DOCKING MODULE**

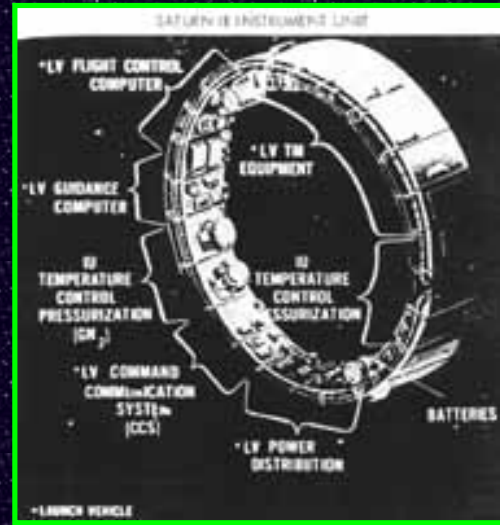
From: Prelaunch Mission Operation Report No. M-966-75-01,  
July 7, 1975, page 12





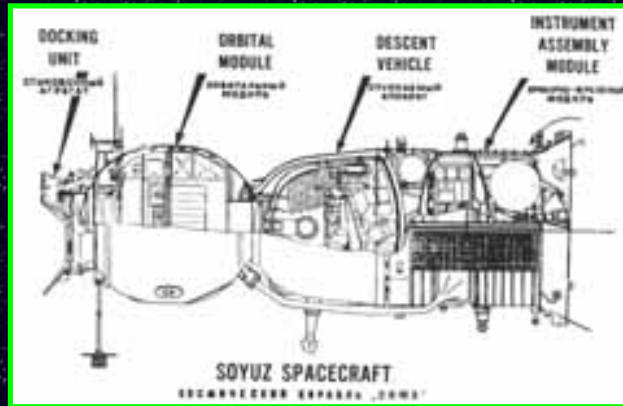
**NEW COMPATIBLE DOCKING SYSTEM**

From: Prelaunch Mission Operation Report No. M-966-75-01,  
July 7, 1975, page 13



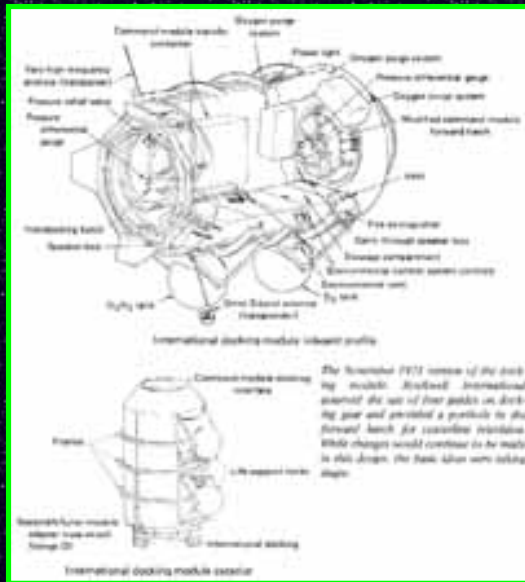
**SATURN 1B INSTRUMENT UNIT**

From: Prelaunch Mission Operation Report No. M-966-75-01,  
July 7, 1975, page 25



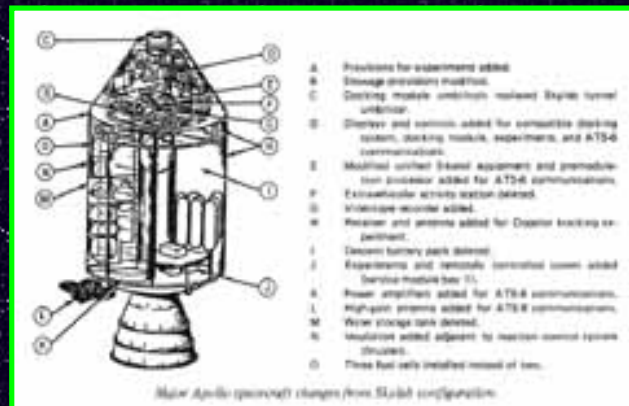
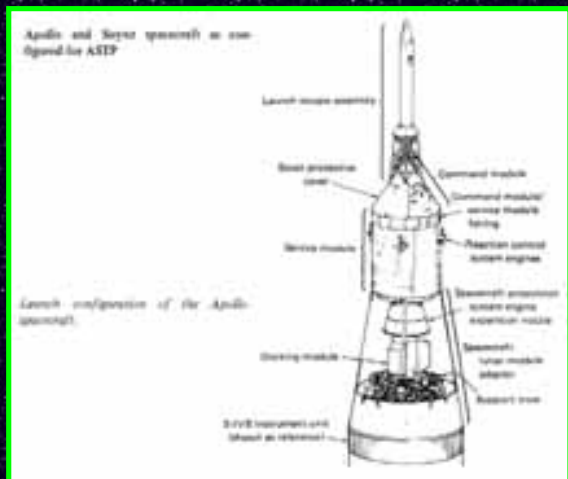
**SOYUZ SPACECRAFT**

From: Prelaunch Mission Operation Report No. M-966-75-01, July 7, 1975, page 27



## INTERNATIONAL DOCKING MODULE INBOARD PROFILE AND EXTERIOR

From: [The partnership: A History of the Apollo-Soyuz Test Project](#), NASA SP-4209, p159.

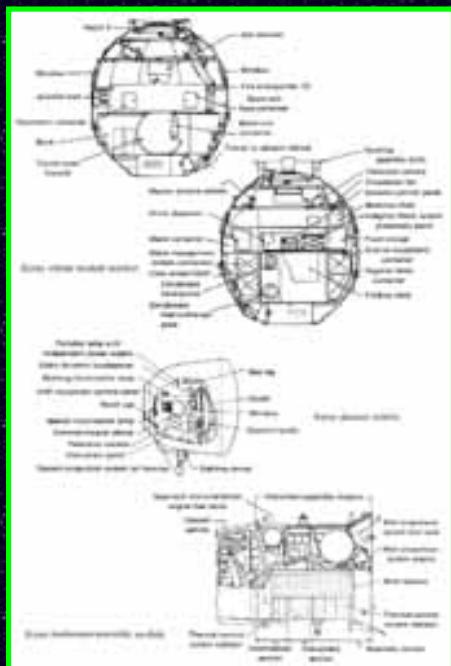


Launch configuration of the Apollo Spacecraft

Major Apollo spacecraft changes from Skylab configuration

## APOLLO AND SOYUZ SPACECRAFT AS CONFIGURED FOR ASTP

From: [The partnership: A History of the Apollo-Soyuz Test Project](#), NASA SP-4209, p226.



Soyuz orbital module interior  
Soyuz descent vehicle  
Soyuz instrument-assembly module

APOLLO AND SOYUZ SPACECRAFT AS CONFIGURED FOR ASTP  
From: [The partnership: A History of the Apollo-Soyuz Test Project](#), NASA SP-4209,  
p227.



Updated May 24, 1999  
Scanning: Chris Gamble  
Roger D. Launius, NASA Chief Historian  
Steve Garber, NASA History Web Curator  
For further information E-mail [histinfo@hq.nasa.gov](mailto:histinfo@hq.nasa.gov)



РАДИАТОРЫ СИСТЕМЫ  
ЭНЕРГОПИТАНИЯ

БОКОВОЙ ЛЮК  
SIDE HATCH

ELECTRICAL POWER  
SUPPLY RADIATORS

СИСТЕМА РЕАКТИВНОГО  
УПРАВЛЕНИЯ СЛУЖЕБНОГО  
МОДУЛЯ

SM RCS

ЗОНД ДЛЯ СТЫКОВКИ  
DOCKING PROBE

RENDEZVOUS WINDOW  
ОКНО ДЛЯ СБЛИЖЕНИЯ

CM RCS

СИСТЕМА РЕАКТИВНОГО  
УПРАВЛЕНИЯ КОМАНДНОГО  
МОДУЛЯ

СОПЛО МАРШЕВОГО ДВИГАТЕЛЯ  
СЛУЖЕБНОГО МОДУЛЯ

SPS ENGINE NOZZLE

COMMAND MODULE (CM)

SERVICE MODULE (SM)

ECS RADIATORS

РАДИАТОРЫ СИСТЕМЫ  
ТЕМПОРЕГУЛИРОВАНИЯ

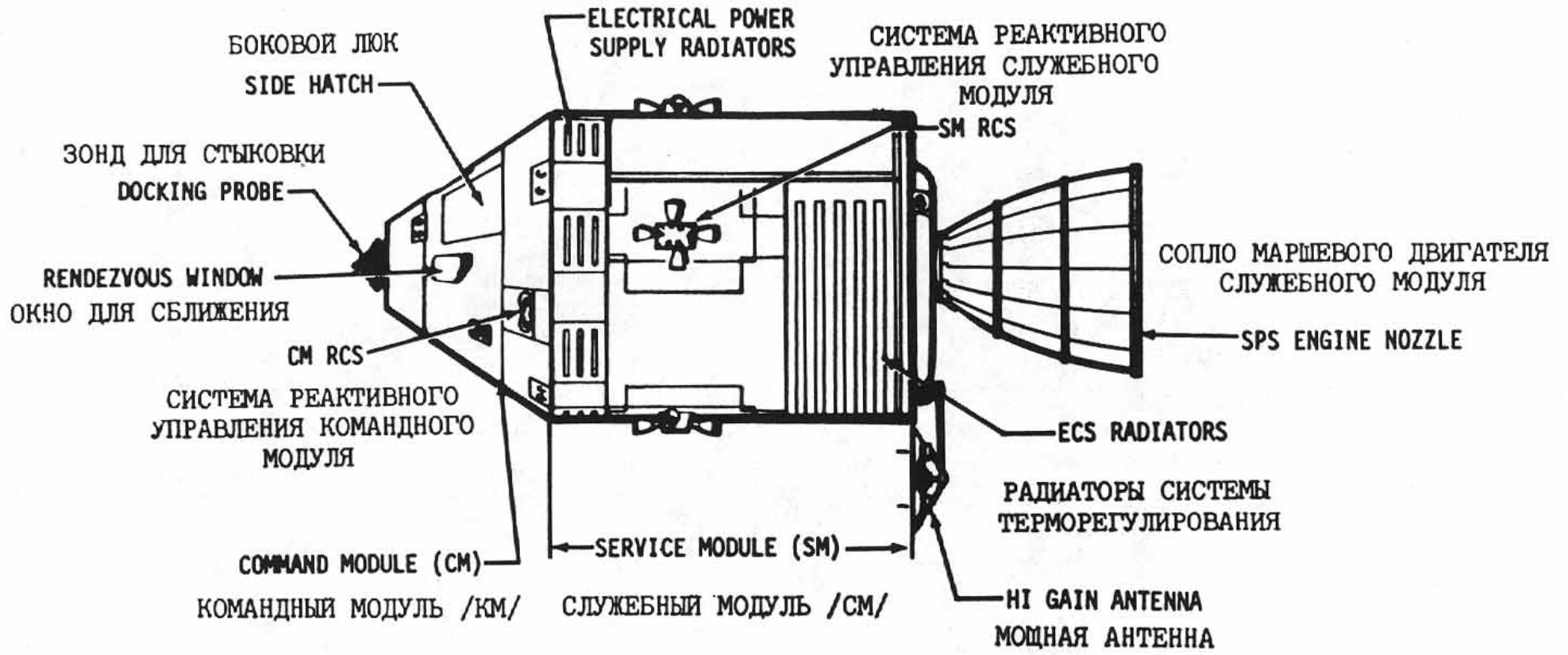
КОМАНДНЫЙ МОДУЛЬ /КМ/

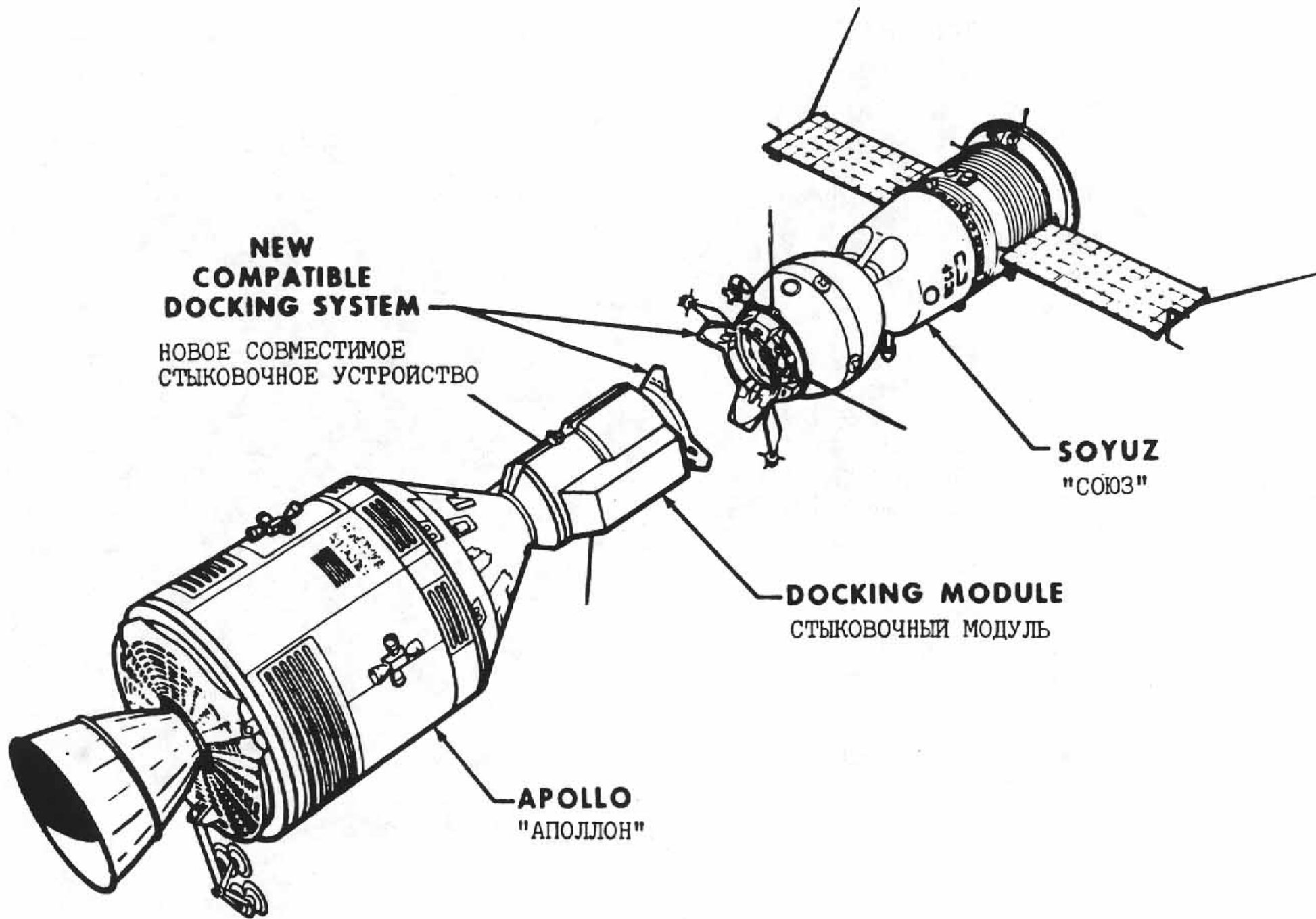
СЛУЖЕБНЫЙ МОДУЛЬ /СМ/

HI GAIN ANTENNA  
МОЩНАЯ АНТЕННА

APOLLO COMMAND AND SERVICE MODULES (CSM)

КОМАНДНЫЙ И СЛУЖЕБНЫЙ МОДУЛИ КОРАБЛЯ "АПОЛЛОН" /КСМ/





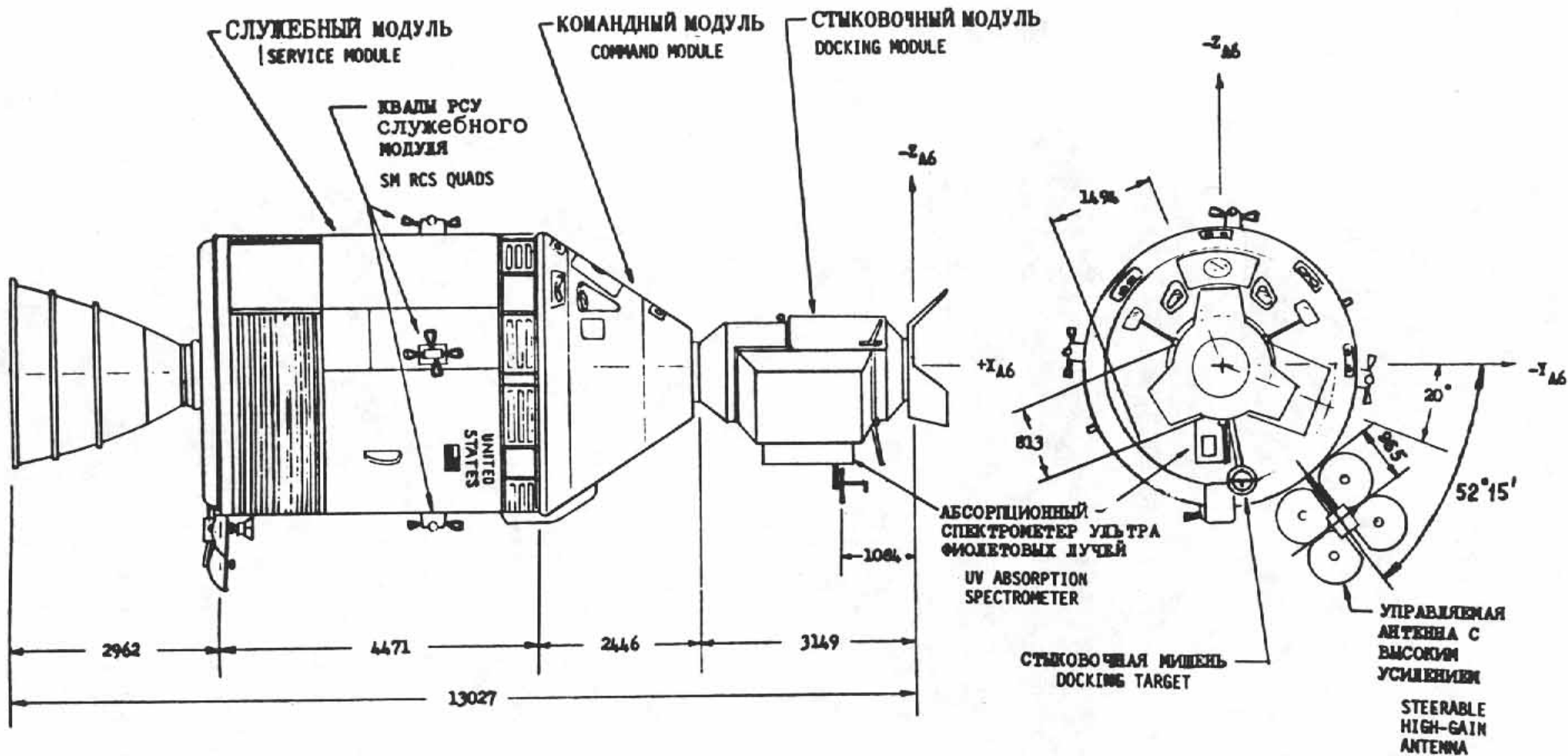
- Apollo-Soyuz Rendezvous and Docking Test project

ЭКСПЕРИМЕНТАЛЬНЫЙ ПРОЕКТ ВСТРЕЧИ И СТЫКОВКИ КОСМИЧЕСКИХ КОРАБЛЕЙ



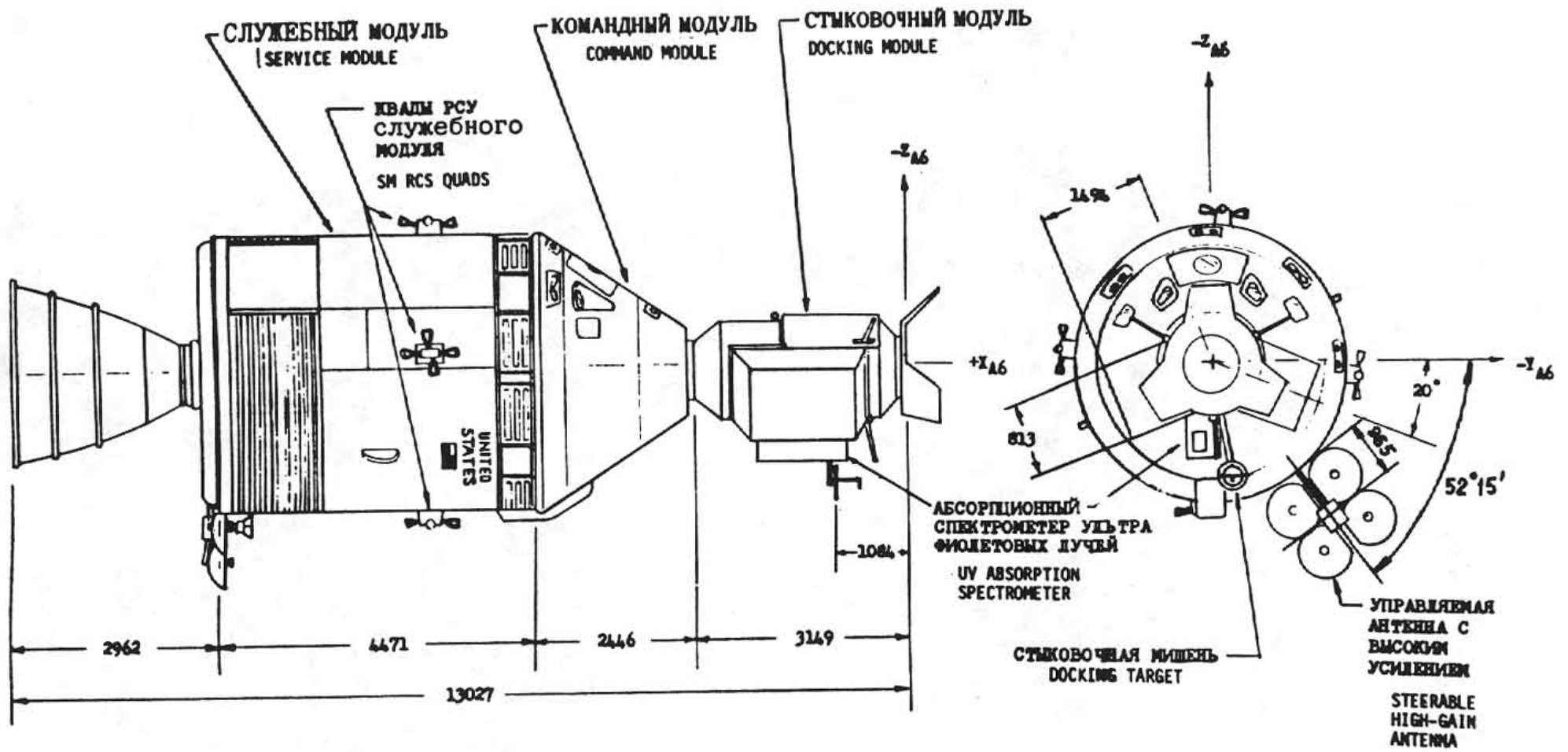
- Apollo-Soyuz Rendezvous and Docking Test project

ЭКСПЕРИМЕНТАЛЬНЫЙ ПРОЕКТ ВСТРЕЧИ И СТЫКОВКИ КОСМИЧЕСКИХ КОРАБЛЕЙ



ПРИМЕЧАНИЕ: ВСЕ РАЗМЕРЫ В МИЛЛИМЕТРАХ  
 NOTE: ALL DIMENSIONS IN MM

КОНФИГУРАЦИЯ КОРАБЛЯ АПОЛЛОН (ВИД СБОКУ И СПЕРЕДИ)  
 APOLLO SPACECRAFT CONFIGURATION (SIDE AND FRONT VIEWS)

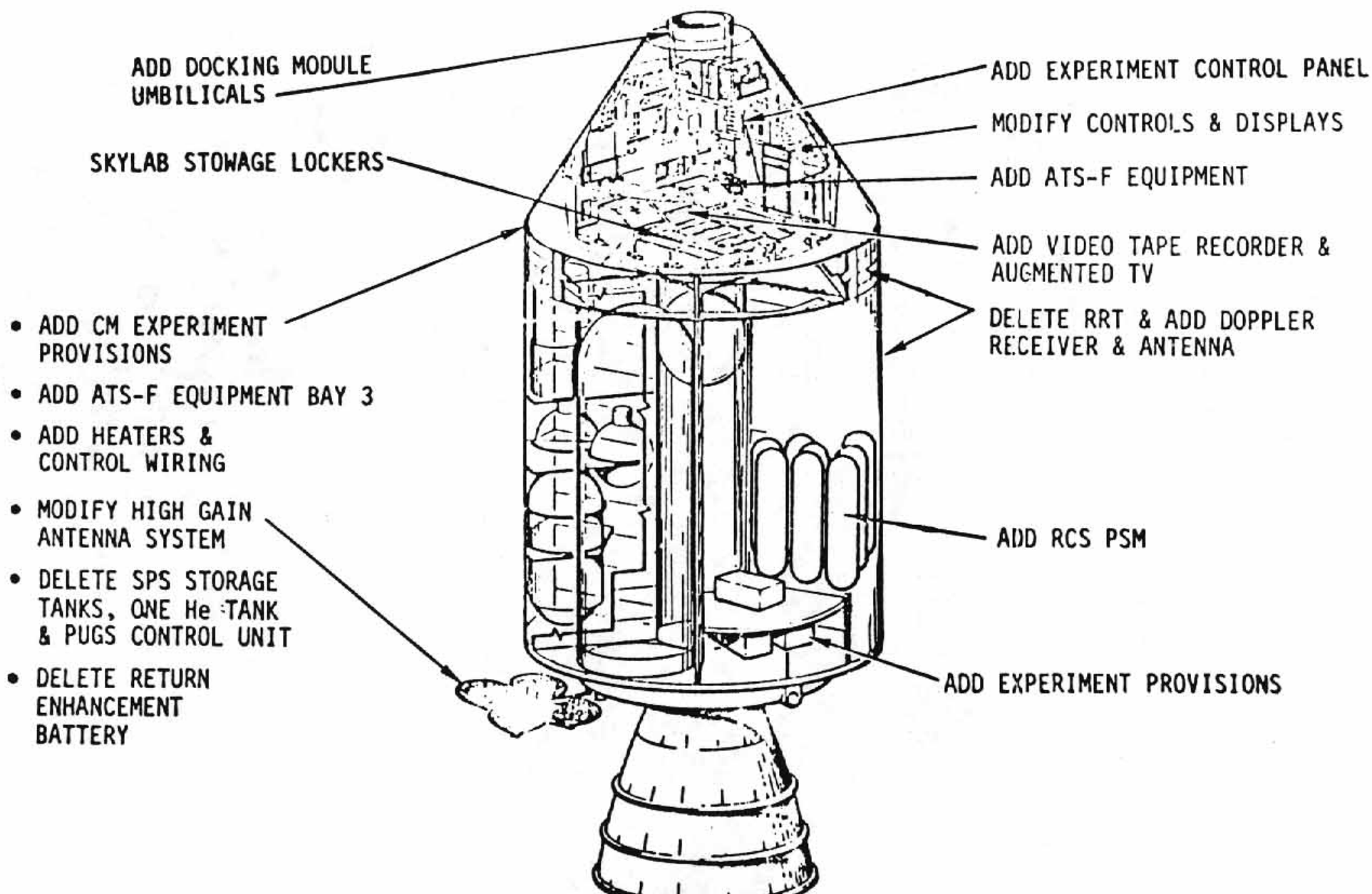


ПРИМЕЧАНИЕ: ВСЕ РАЗМЕРЫ В ММ  
 NOTE: ALL DIMENSIONS IN MM

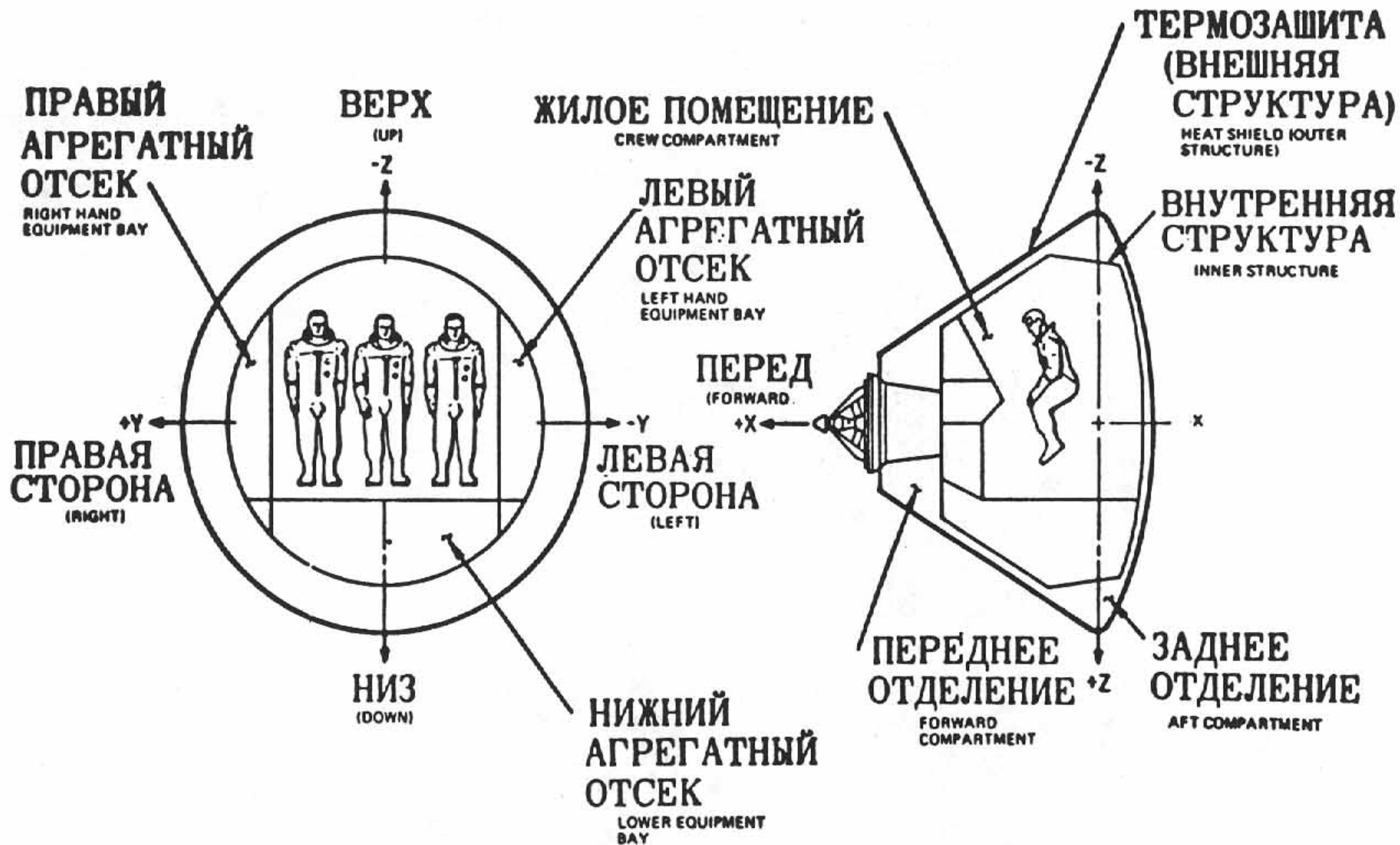
КОНФИГУРАЦИЯ КОРАБЛЯ АПОЛЛОН (ВИД СБОКУ И СПЕРЕДИ)  
 APOLLO SPACECRAFT CONFIGURATION (SIDE AND FRONT VIEWS)



# MAJOR ASTP MODIFICATIONS TO CSM 111







# ОРИЕНТАЦИЯ ВНУТРЕННИХ ОТСЕКОВ КОМАНДНОГО МОДУЛЯ

COMMAND MODULE COMPARTMENT ORIENTATION



# КОМАНДНОГО МОДУЛЯ

COMMAND MODULE COMPARTMENT ORIENTATION



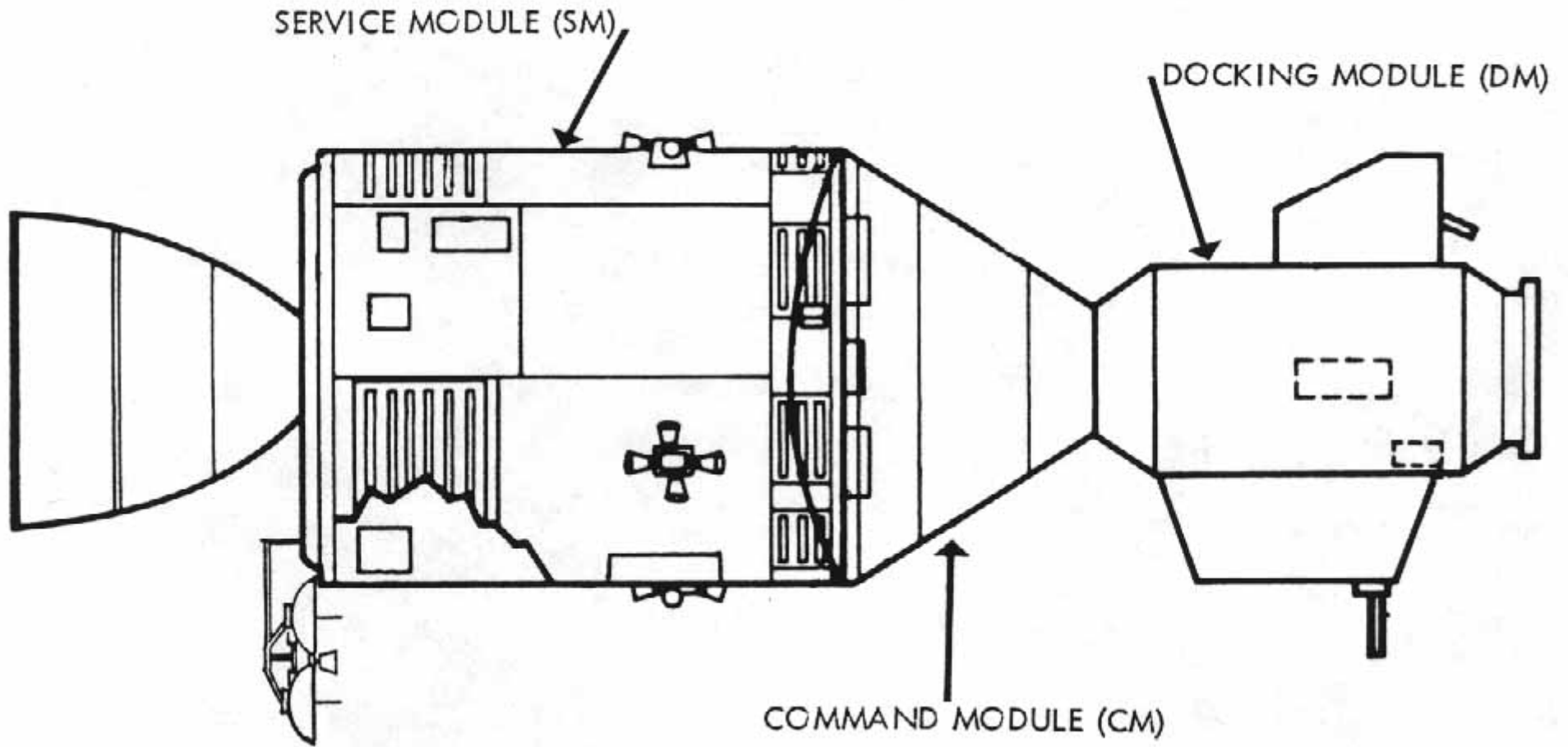
**ОБЩЕЕ УСТРОЙСТВО КОМАНДНОГО МОДУЛЯ**

# ОБЩЕЕ УСТРОЙСТВО КОМАНДНОГО МОДУЛЯ

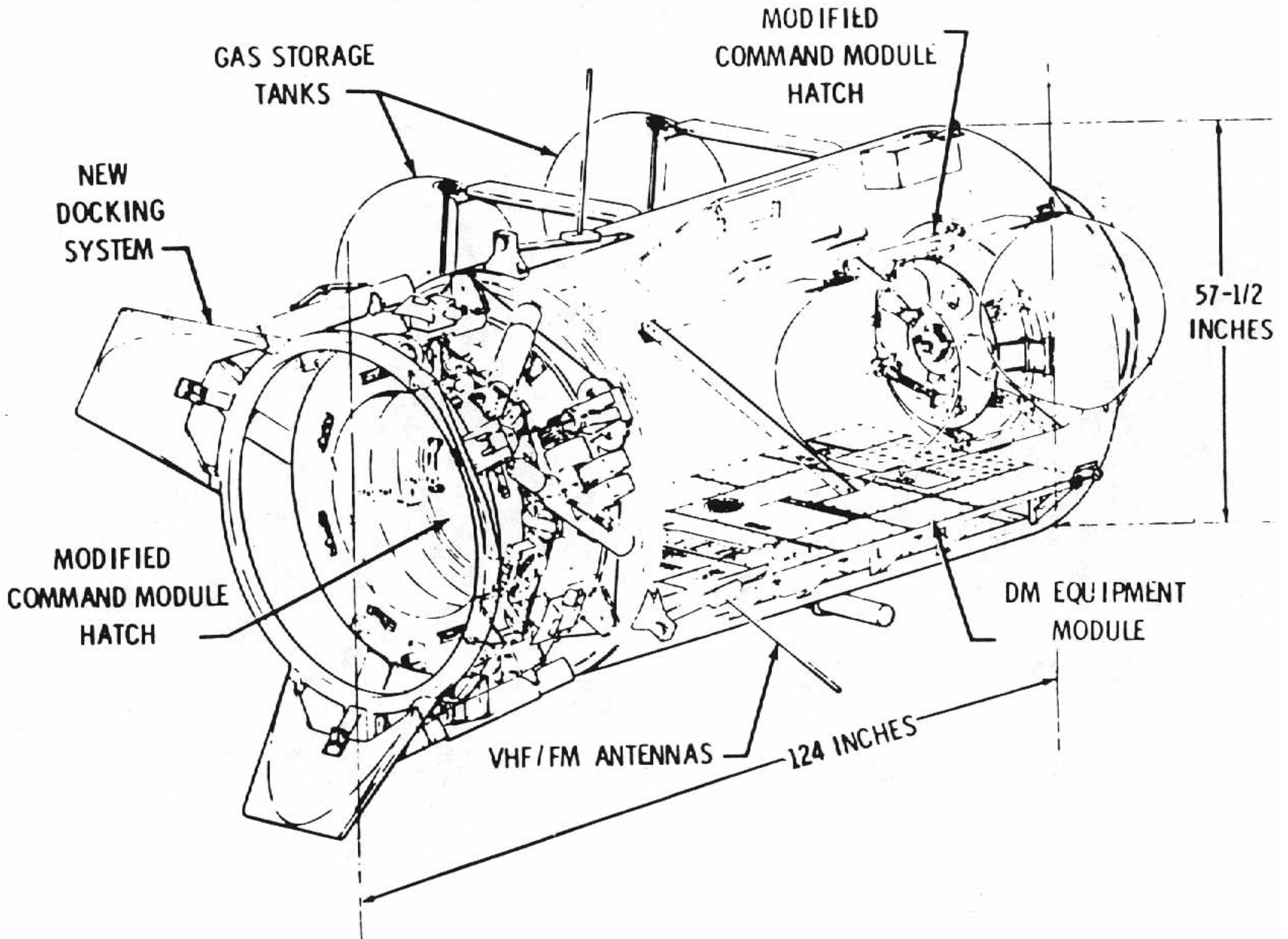
CM GENERAL ARRANGEMENT



# CSM/DM ORBITAL CONFIGURATION



# ASTP DOCKING MODULE

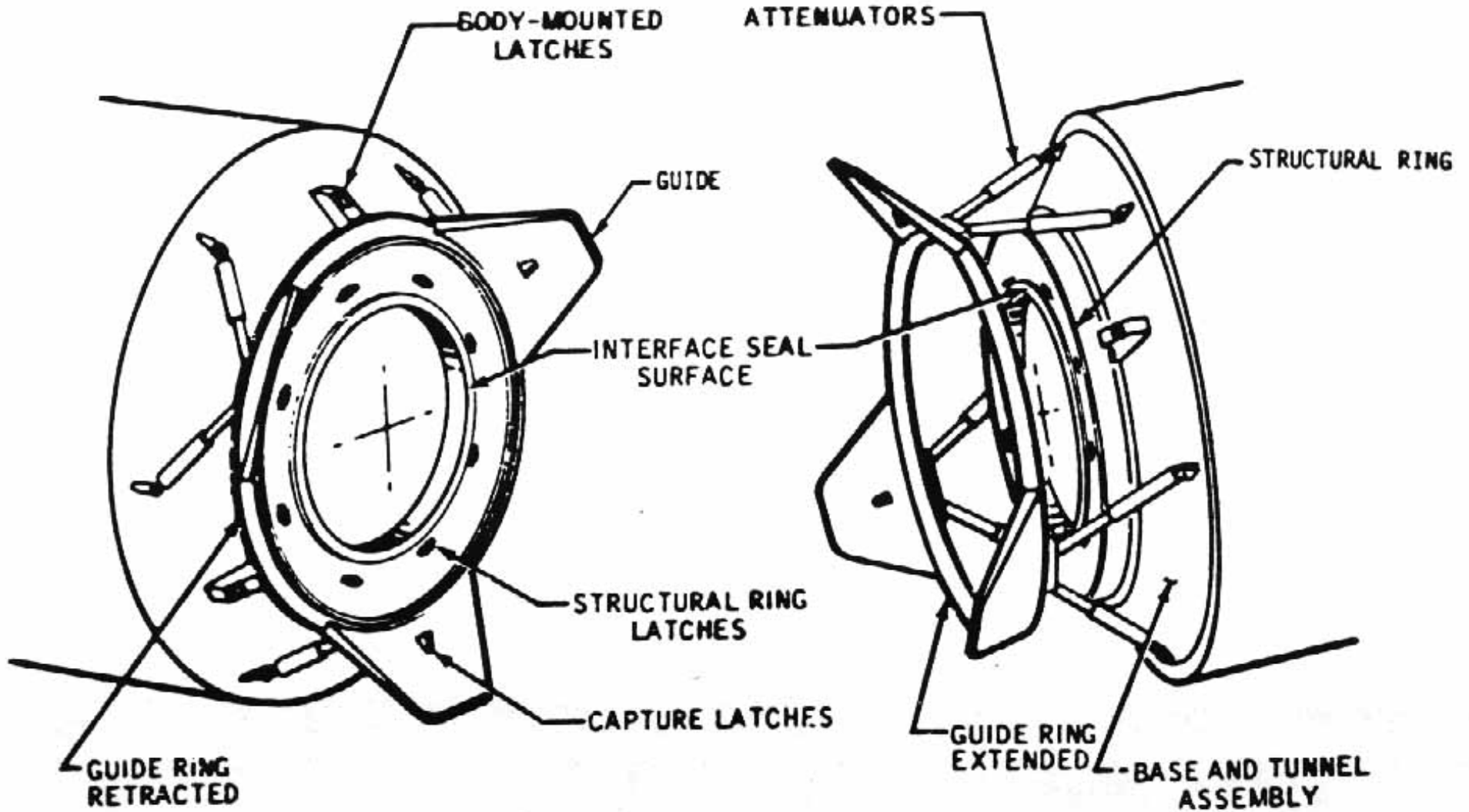




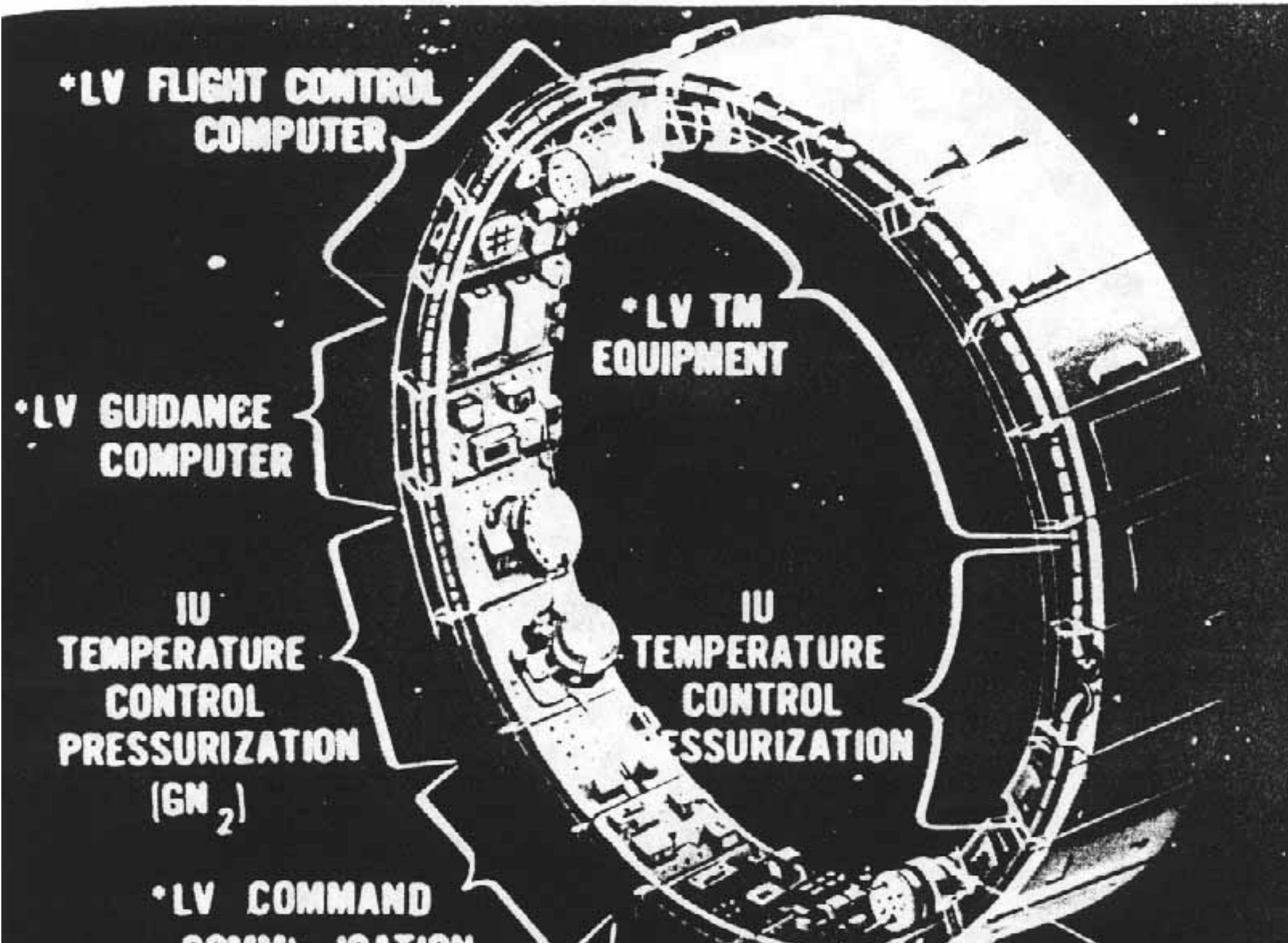
# NEW COMPATIBLE DOCKING SYSTEM

PASSIVE DOCKING SYSTEM

ACTIVE DOCKING SYSTEM



# SATURN IB INSTRUMENT UNIT



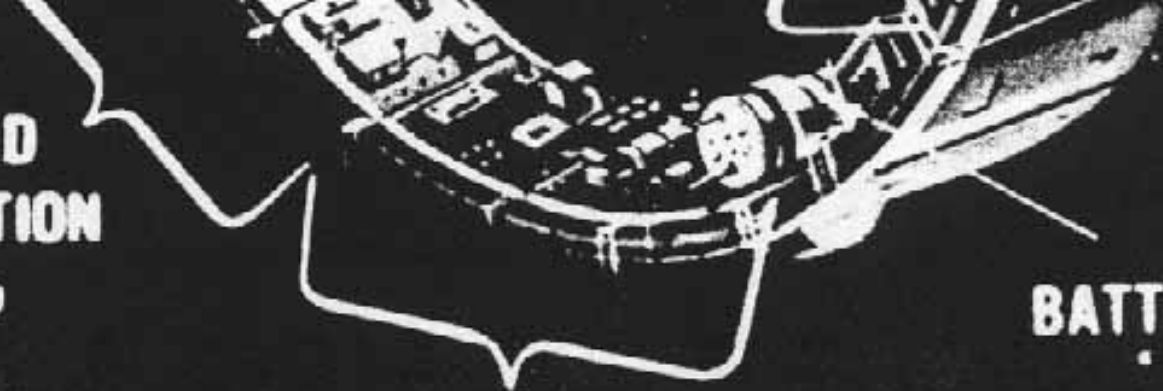


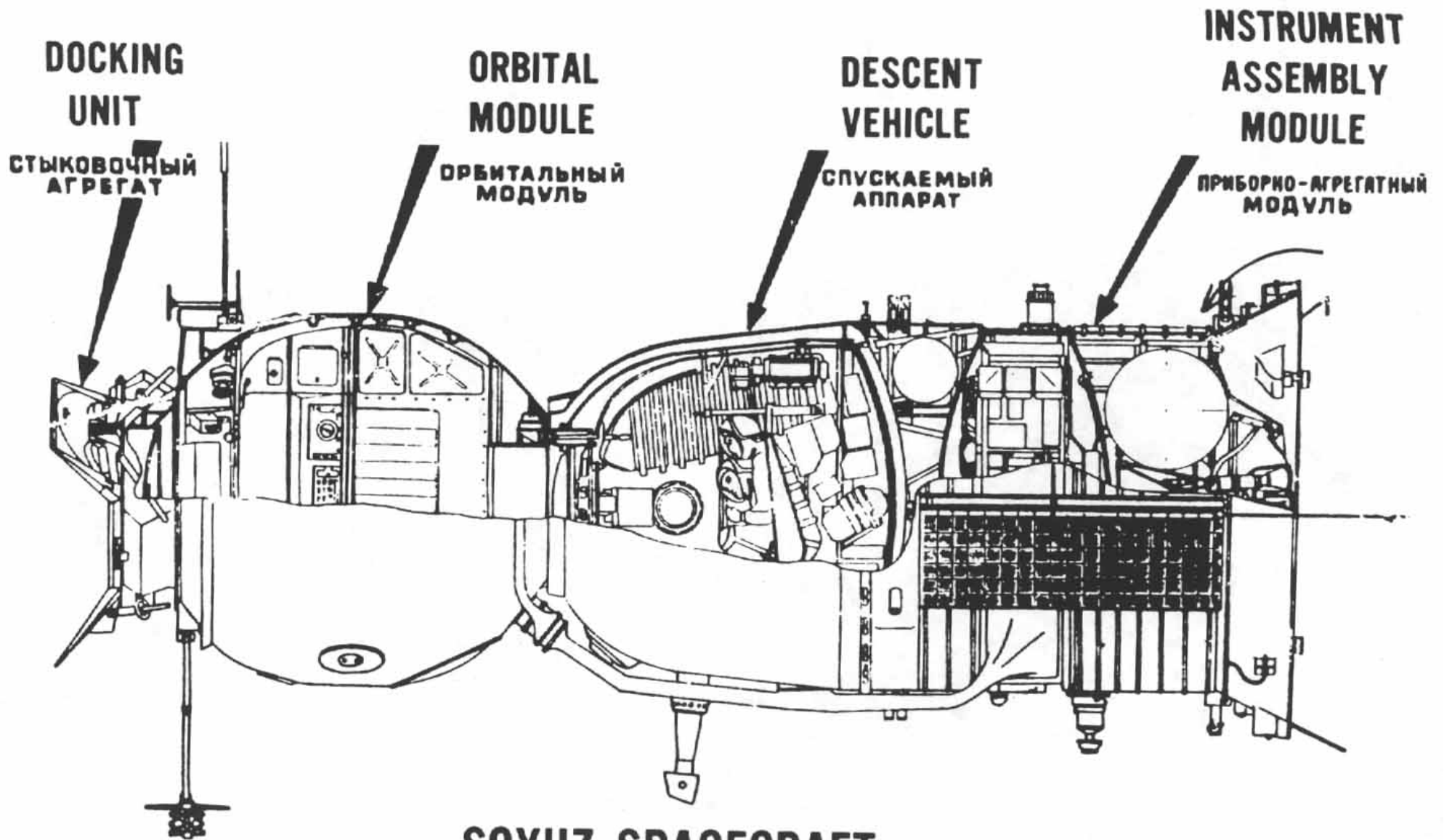
(GN<sub>2</sub>)  
• LV COMMAND  
COMMUNICATION  
SYSTEM  
(CCS)

• LV POWER  
DISTRIBUTION

BATTERIES

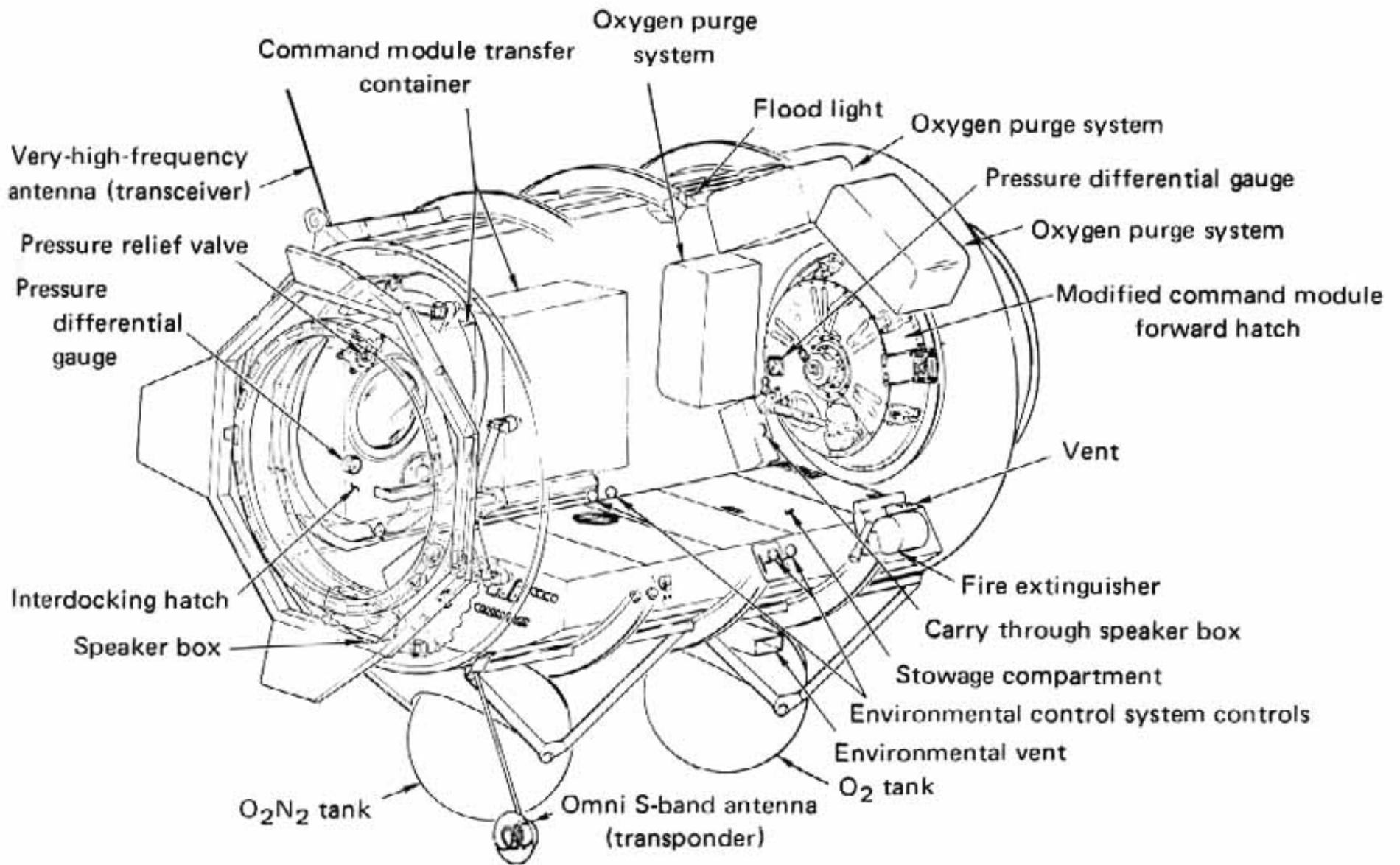
• LAUNCH VEHICLE





## SOYUZ SPACECRAFT

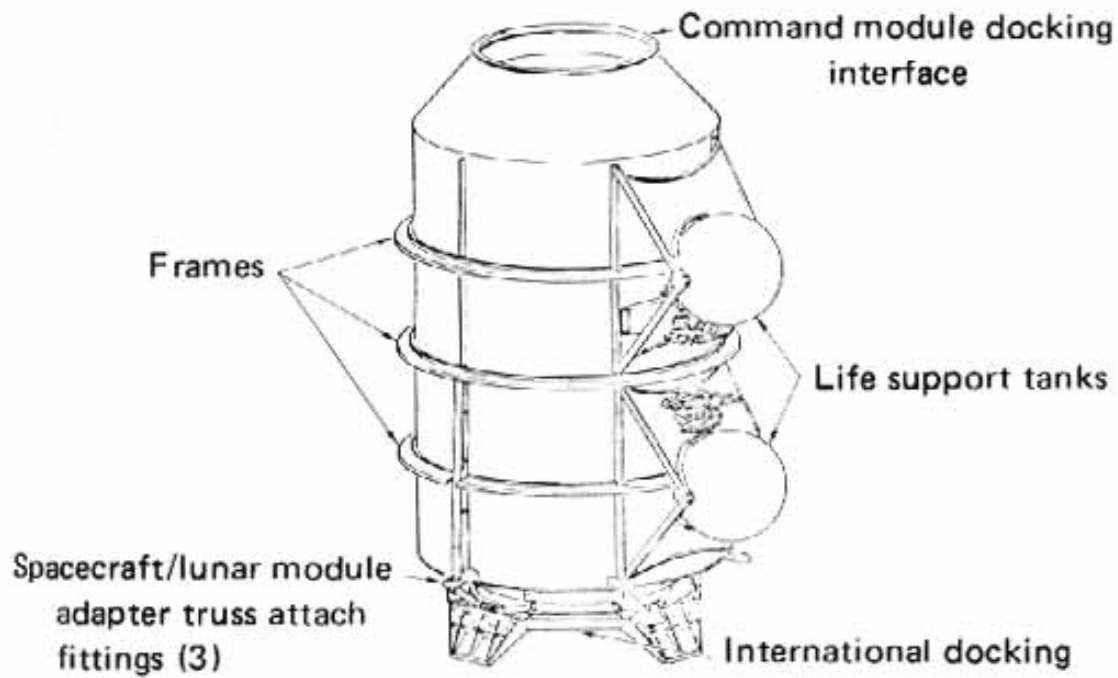
КОСМИЧЕСКИЙ КОРАБЛЬ „СОЮЗ“



International docking module inboard profile



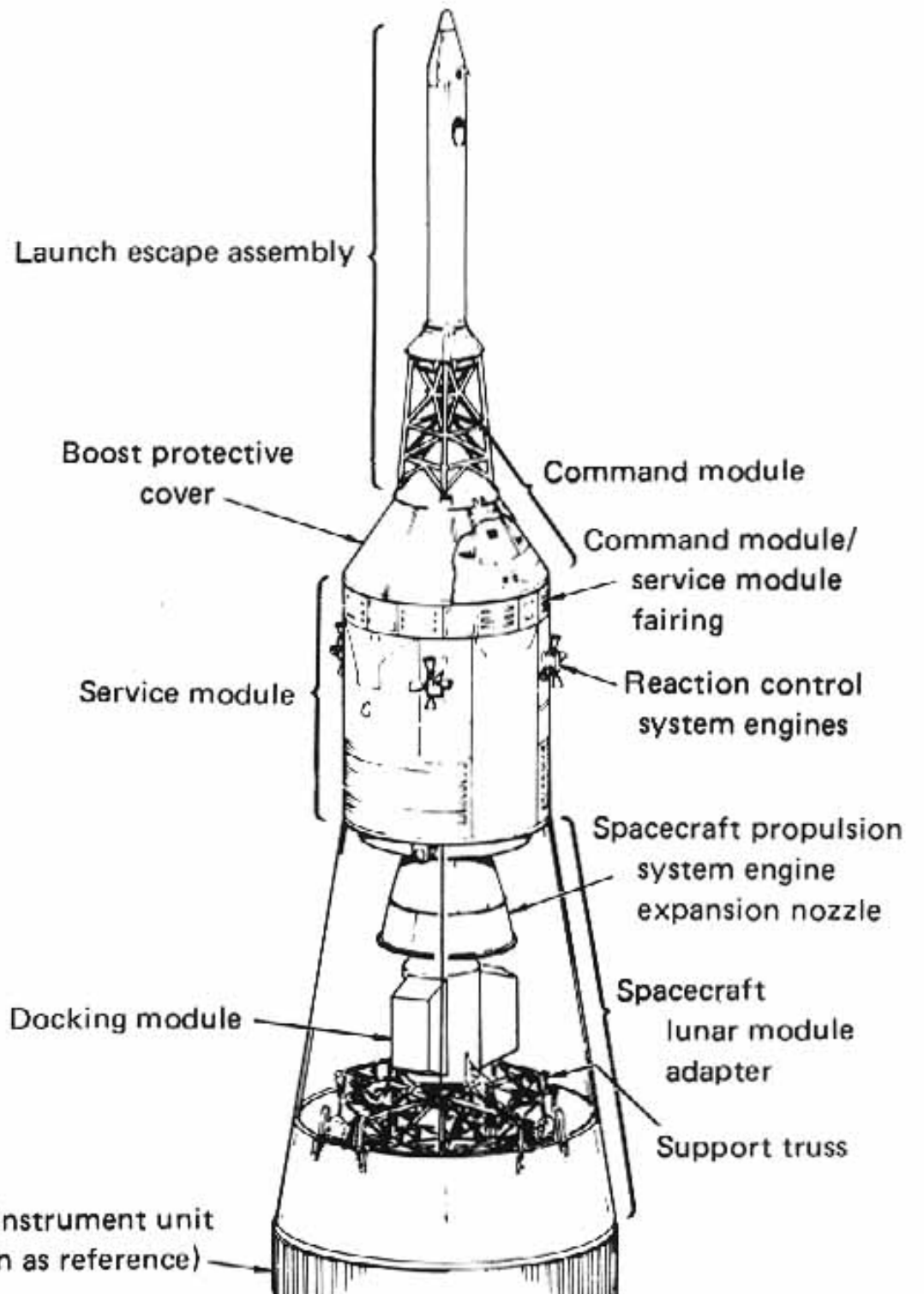
*The November 1971 version of the docking module. Rockwell International assumed the use of four guides on docking gear and provided a porthole in the*



International docking module exterior

*The November 1971 version of the docking module. Rockwell International assumed the use of four guides on docking gear and provided a porthole in the forward hatch for centerline television. While changes would continue to be made in this design, the basic ideas were taking shape.*

## Apollo and Soyuz spacecraft as configured for ASTP



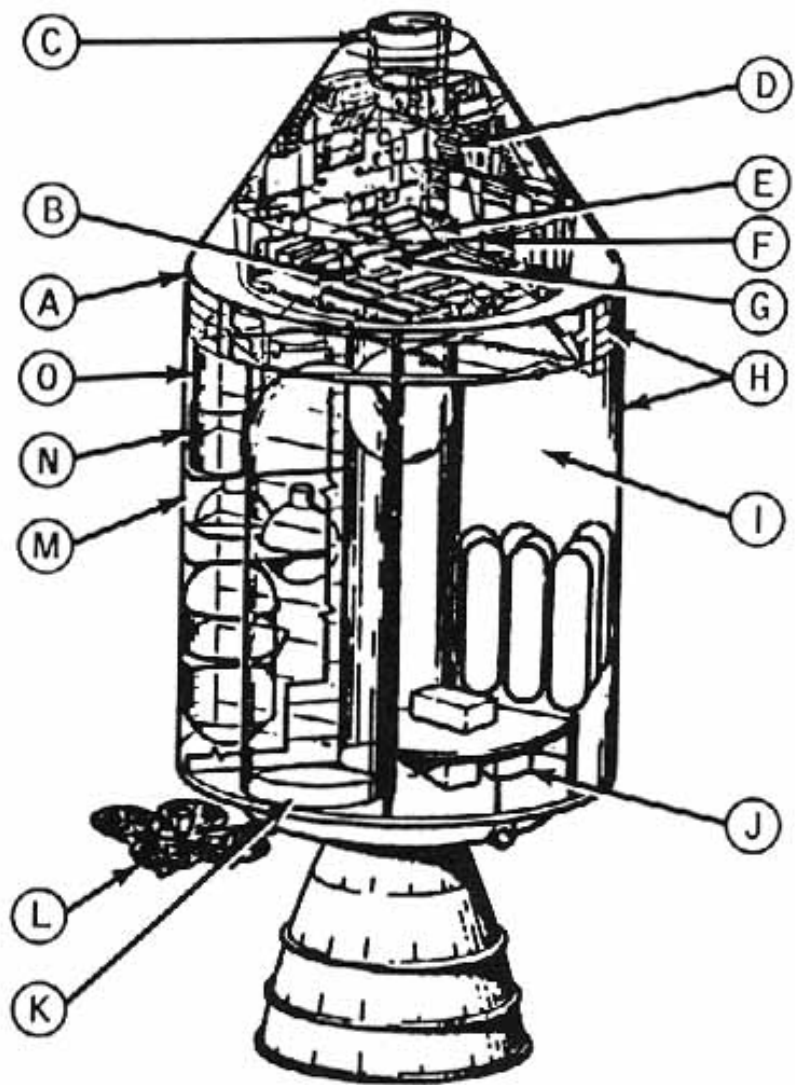
*Launch configuration of the Apollo spacecraft.*



S-IVB instrument unit  
(shown as reference)

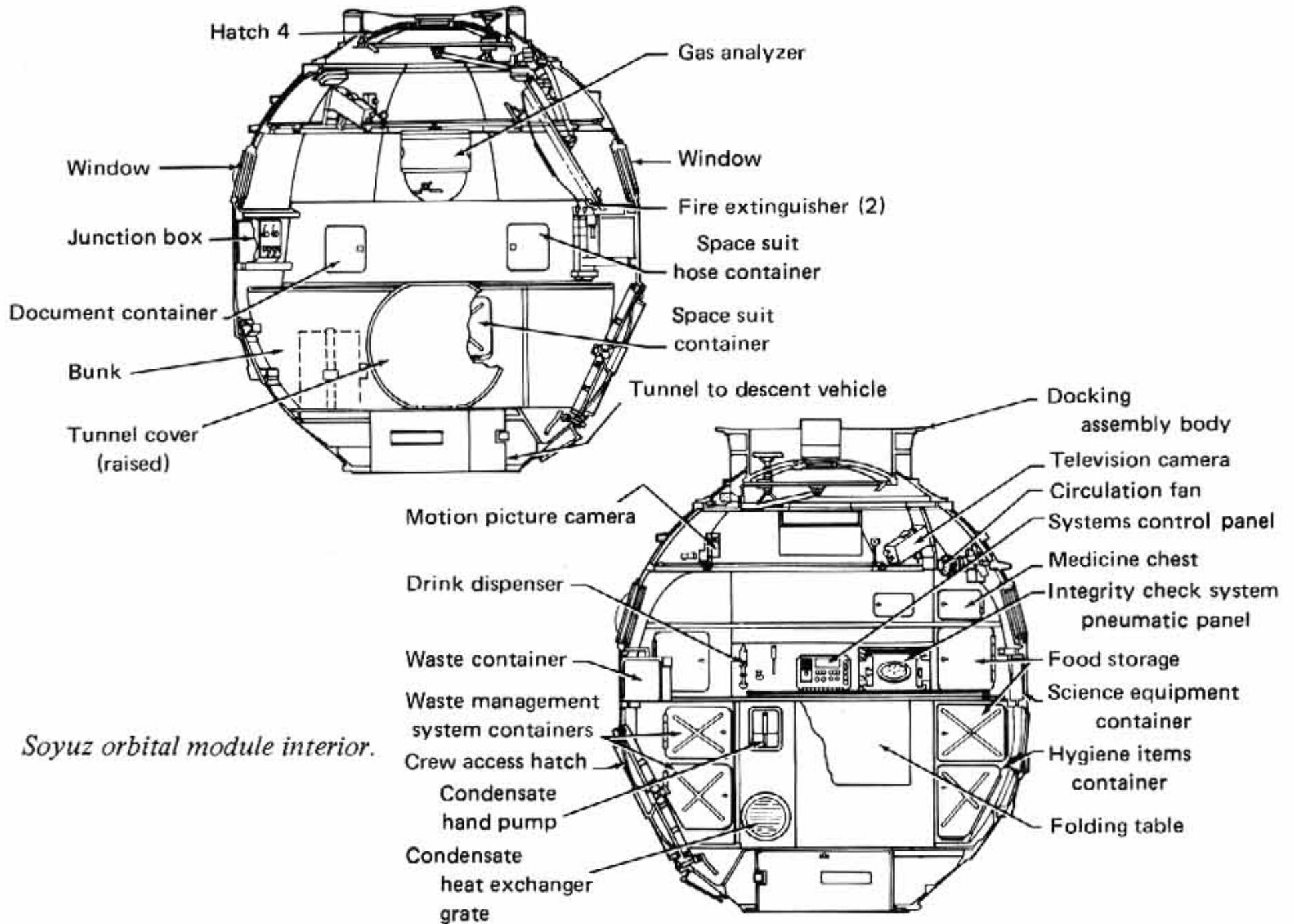


Support truss



- A Provisions for experiments added.
- B Stowage provisions modified.
- C Docking module umbilicals replaced Skylab tunnel umbilical.
- D Displays and controls added for compatible docking system, docking module, experiments, and ATS-6 communications.
- E Modified unified S-band equipment and premodulation processor added for ATS-6 communications.
- F Extravehicular activity station deleted.
- G Videotape recorder added.
- H Receiver and antenna added for Doppler tracking experiment.
- I Descent battery pack deleted.
- J Experiments and remotely controlled covers added (service module bay 1).
- K Power amplifiers added for ATS-6 communications.
- L High-gain antenna added for ATS-6 communications.
- M Water storage tank deleted.
- N Insulation added adjacent to reaction control system thrusters.
- O Three fuel cells installed instead of two.

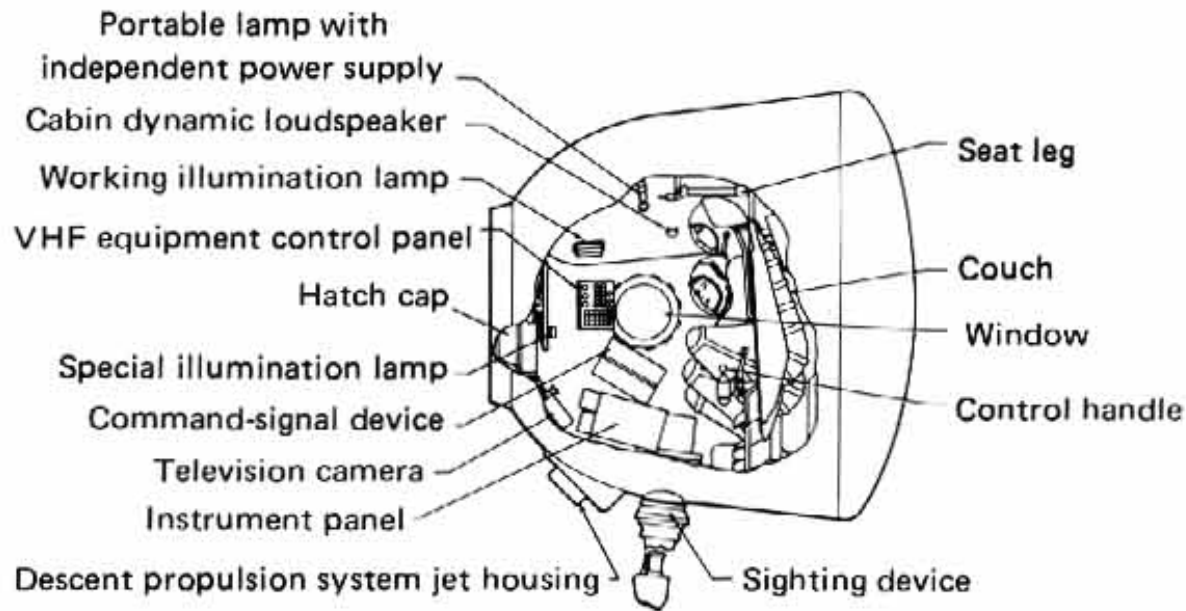
*Major Apollo spacecraft changes from Skylab configuration.*



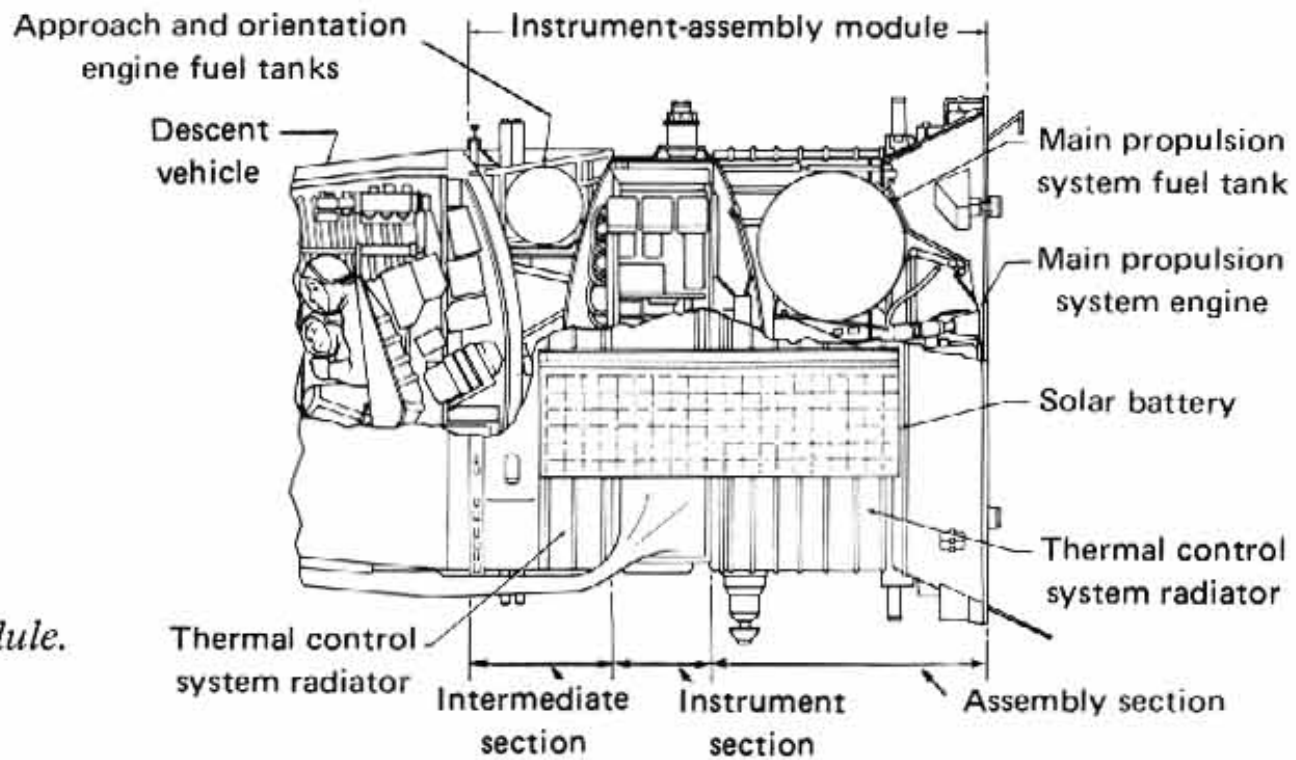
*Soyuz orbital module interior.*

Portable lamp with independent power supply

grate



*Soyuz descent vehicle.*



*Soyuz instrument-assembly module.*

system radiator

Intermediate  
section

Instrument  
section

Assembly section