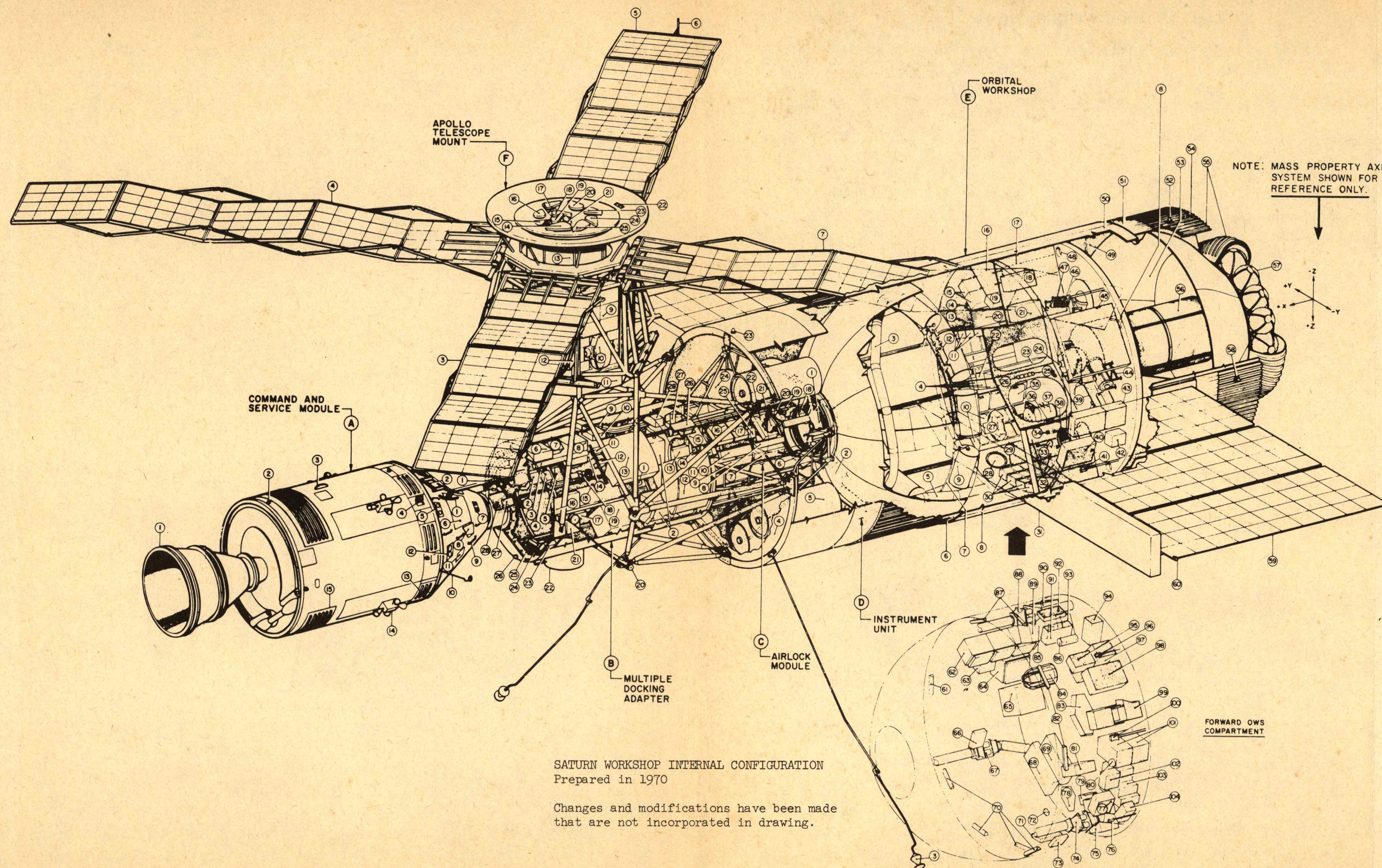




SATURN WORKSHOP INTERNAL CONFIGURATION
Prepared in 1970

Changes and modifications have been made
that are not incorporated in drawing.

A. Command & Service Module

1. SPS Engine
2. Running Lights (8 places)
3. Sinter Antenna
4. Docking Light
5. Pitch Control Engines
6. Crew Hatch
7. Pitch Control Engines
8. Rendezvous Window
9. EVA Hand Holds
10. EVA Light
11. Side Window
12. Roll Engines (2 places)
13. EPS Radiator Panels (6 places)
14. SM RCS Module (4 places)
15. ECS Radiator

B. Multiple Docking Adapter

1. Docking Target
2. Experiment M512 Facility
3. ECS Duct to Port 5
4. Vacuum Vent Panel
5. Frame Electrical Umbilical
6. Spare Fan Container
7. Spare Light Container
8. Film Vault No. 1
9. ECS Duct
10. Experiment S082A Cannister
11. Flight Data File
12. Speaker Intercom
13. ATM C&D Console
14. Film Vault No. 4
15. Film Vault No. 3
16. Experiment S009 Support Structure
17. DA Truss Motor (AM)
18. Area Fan (2 places)
19. Film Vault No. 2
20. DA Structure (AM)
21. CO₂ Absorbers and Shims
22. Docking Port No. 3
23. Experiment S065
24. Experiment S101 Resupply
25. Experiment S101
26. Running Light (4 places)
27. External Duct
28. Vacuum Vent Connection for Experiment M512

C. Airlock Module

1. Windows (4 places)
2. Molecular Sieves (2 places)
3. Discone Antennas (2 places)
4. Thermal Blanket
5. O₂ Tanks (6 places)
6. Cabin Press. Relief Valve
7. Suit Storage
8. Bio-Med Cable
9. Suit Storage
10. Undefined Storage Vol.
11. Camera Equip. Storage
12. STS C&D Panel
13. 70MM Film Storage
14. Forward Airlock Hatch
15. Tape Recorder
16. Spare Pressure Control Unit
17. EVA/IVA Umbilicals
18. AFT Compartment Control Panel
19. Heat Exchangers
20. Light Assy.
21. AFT Airlock Hatch
22. Lock Compartment EVA Panels
23. Running Lights (4 places)
24. N₂ Tanks (5 places)
25. EVA/IVA Umbilicals
26. O₂/N₂ Panel
27. Suit Cooling Module
28. Permanent Storage

D. Instrument Unit

None

E. Orbital Workshop

1. OMS Hatch
2. VCS Mixing Chamber & Filter
3. VCS Duct
4. Storage Lockers
5. VCS Duct
6. Thermal Shield
7. O₂ Press. Supply Line
8. Meteoroid Shield
9. Water Containers (10 places)
10. Food Storage (2 places)
11. Storage Lockers
12. O₂ Press. Regulators for H₂O Supply
13. Sleep Restraints
14. Intercom Box
15. Storage Lockers Front & Back
16. Sleep Restraint
17. Sleep Restraint
18. Experiment M131 Equip. Storage Container
19. Storage Locker
20. Privacy Curtain
21. Experiment M131 Rotating Chair
22. Control Console
23. Storage Locker
24. TV Outlet
25. Trash Disposal Airlock
26. Utility Outlets
27. Food Heater
28. Proposed Window
29. Intercom Box
30. Storage Lockers
31. Solar Array Assy.
32. Storage Cabinets
33. Ion Source Shield
34. Utility Outlet
35. Refrig./Freezer
36. Fire Extinguisher
37. Food, Water Heater & Chiller Table
38. Gravity Work Bench
39. Ergometer
40. Gas Analyzer
41. Intercom Box
42. Helmet Box
43. Experiment Support System
44. Lower Body Negative Press. Device
45. OMS Control & Display Console
46. Intercom Box
47. Rotating Chair
48. VCS Duct
49. Crotch Area
50. Meteoroid Shield
51. Thermal Shield
52. Running Light (4 places)
53. Waste Storage Tank
54. APC Thrusters
55. Meteoroid Shield
56. Trash Disposal Separation Screen
57. APC GN₂ Spheres (15 places)
58. Running Light (4 places)
59. Solar Array Panels
60. Acquisition Light
61. Interior Light
62. Food Storage Freezer
63. Limb Motion Sensor Assy. Container
64. Microbiological Specimen Freezer
65. Body Mass Measurement Device
66. Force Measuring Unit
67. Proposed VCS Duct
68. Spares Container
69. Astro Aide Container
70. Interior Lights
71. Scientific Airlock
72. Data System
73. Force Measuring Unit
74. VCS Fan Cluster
75. Food Container
76. Intercom Box
77. Suit Container
78. Emergency Access
79. UV Stellar Astronomy Container
80. N₂ Tanks (3 places)

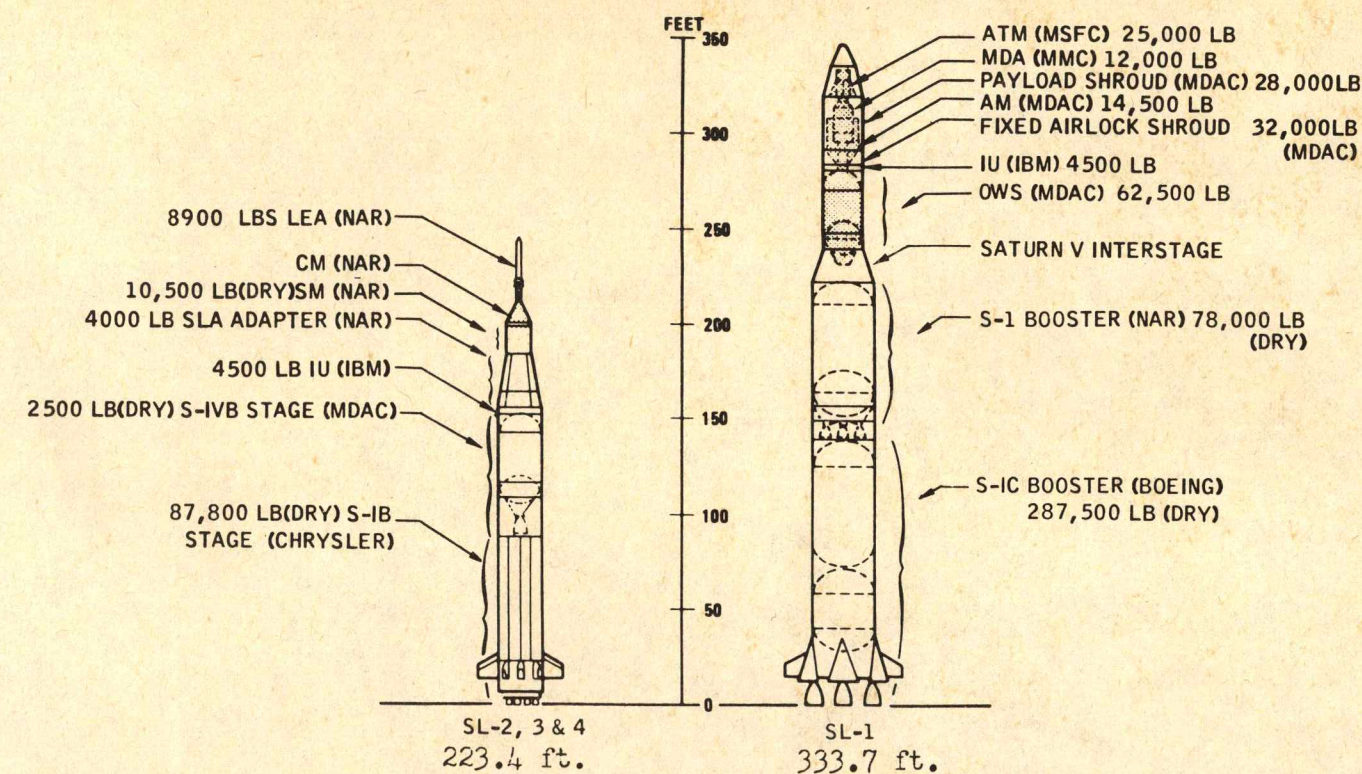
F. Apollo Telescope Mount (Continued)

81. Force Measuring Unit
82. Interior Lights
83. Main Access
84. Heat Filter Fan
85. Emergency Access
86. Portable Water Bottle
87. Interior Lights
88. VCS Fan Cluster
89. Food Container
90. Food Container
91. Coronagraph Container (Experiment T025)
92. Scientific Airlock
93. UV X-Ray SOL-Photo (Experiment S020)
94. Sample Array System Container
95. Water Microbiological Control Equip.
96. Utility Outlet
97. Photometer System Container (Experiment T027)
98. Foot Controlled Maneuvering Unit (Experiment T020)
99. Automatically Stabilized Maneuvering Unit (Experiment M509)
100. Intercom Box
101. Food Containers
102. Restraints Container (Experiment M508)
103. Work Task Board (Experiment M508)
104. Tools

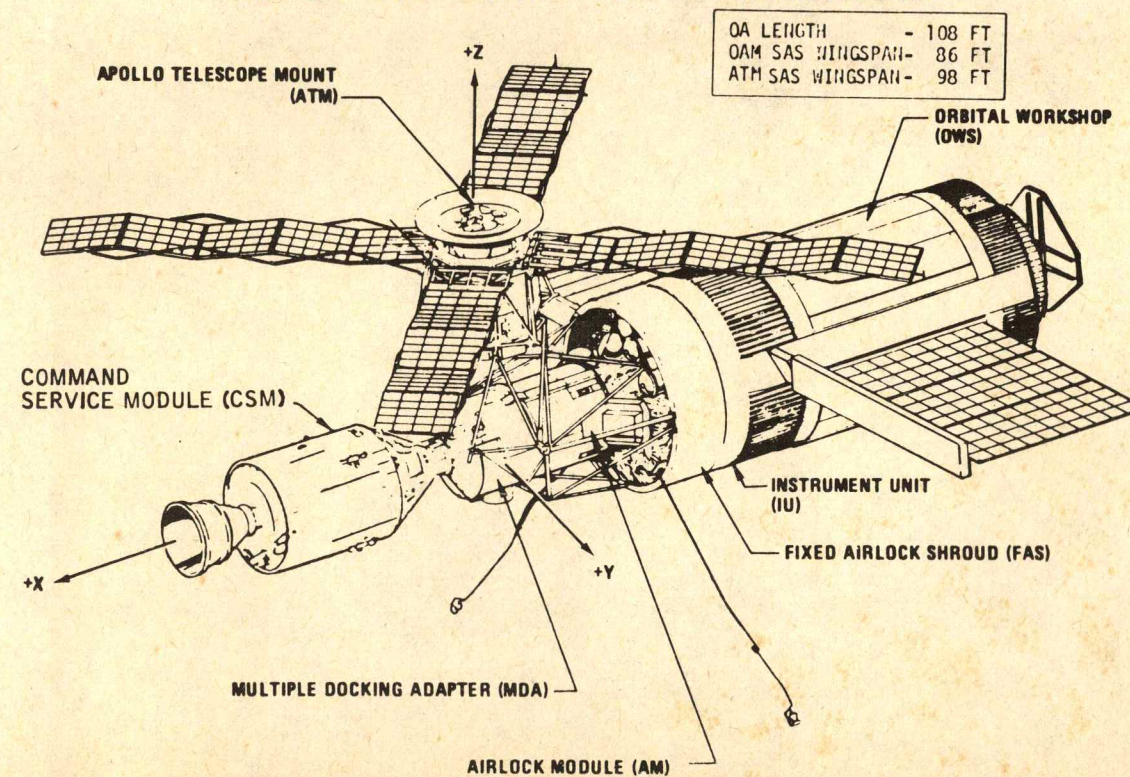
G. Apollo Telescope Mount

1. Command Antenna
2. Telemetry Antenna
3. ATM Solar Array Wing No. 1
4. ATM Solar Array Wing No. 2
5. ATM Solar Array Wing No. 3
6. Command Antenna
7. ATM Solar Array Wing No. 4
8. Telemetry Antenna
9. Charger Battery Regulator Module (6 places)
10. Control Moment Gyro (3 places)
11. ATM Rack
12. CMG Inverter No. 3
13. Canister
14. AS&E Aperture Door (Experiment S054)
15. NRL-A Film Retrieval Door (Experiment S082A)
16. H-2 Aperture Door
17. NRL-B Aperture Door (Experiment S082B)
18. NRL-A Aperture Door (Experiment S082B)
19. NRL-A Aperture Door (Experiment S082A)
20. HCO-A Aperture Door (Experiment S055A)
21. Fine Sun Sensor Aperture Door
22. Acquisition Sun Sensors
23. H-1 Aperture Door
24. HAO Aperture Door (Experiment S052)
25. GSPC Aperture Door (Experiment S056)

SKYLAB LAUNCH CONFIGURATION

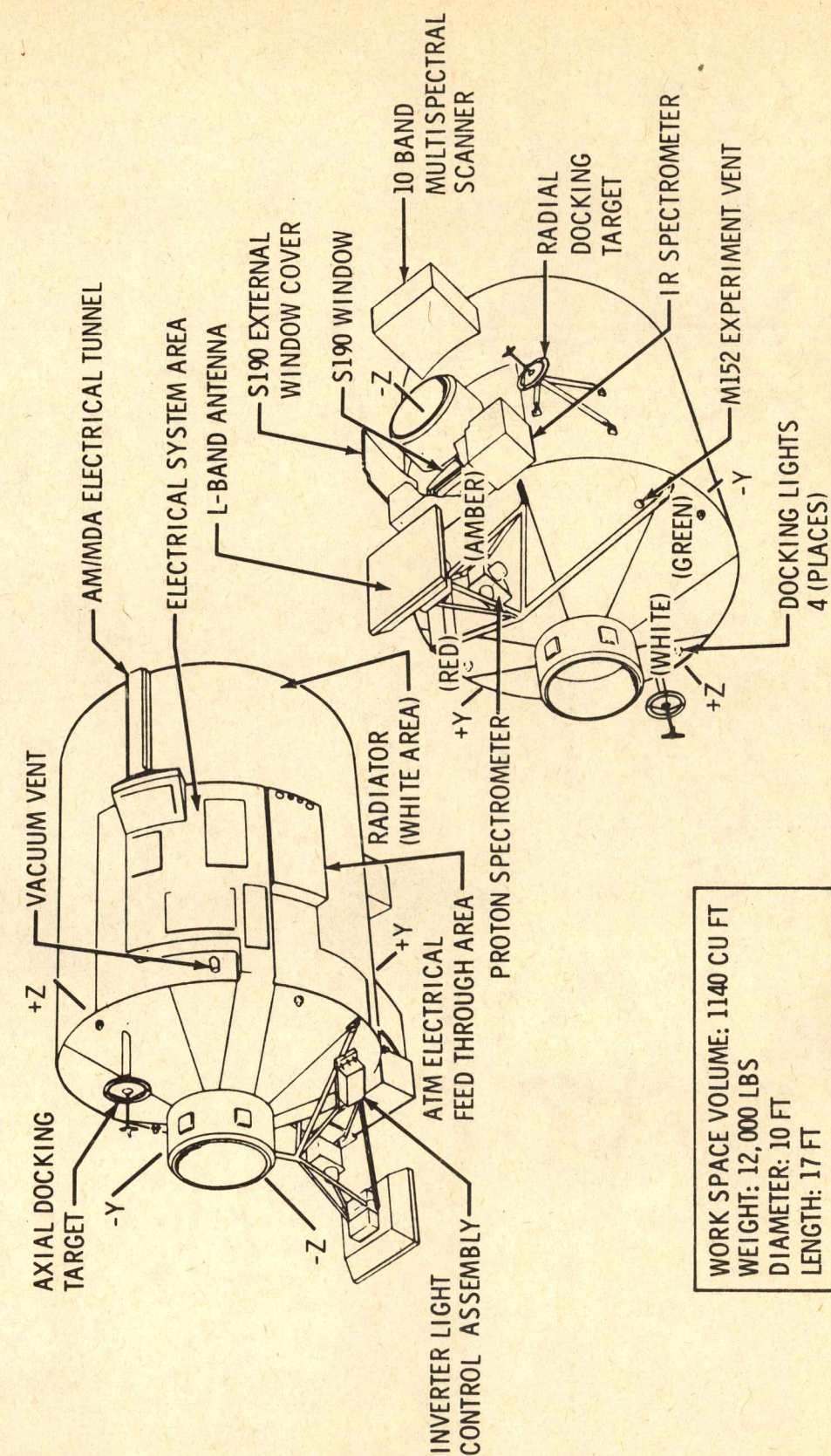


ORBITAL ASSEMBLY CONFIGURATION



MULTIPLE DOCKING ADAPTER (MDA)

- PROVIDES CSM DOCKING CAPABILITY
- CREW WORK AREA
- PROVISIONS FOR EXPERIMENTS
- CONTAINS THE ATM C&D AND EREP PANELS
- ECS RADIATOR MOUNTS
- STOWAGE

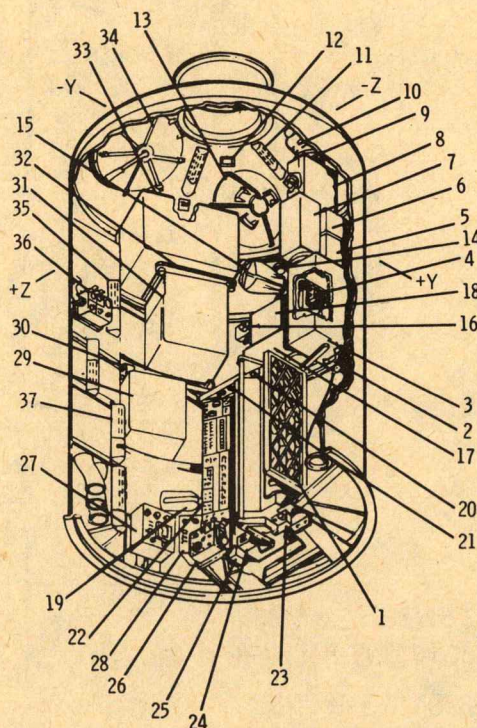


WORK SPACE VOLUME: 1140 CU FT
WEIGHT: 12,000 LBS
DIAMETER: 10 FT
LENGTH: 17 FT

MDA INTERIOR CONFIGURATION

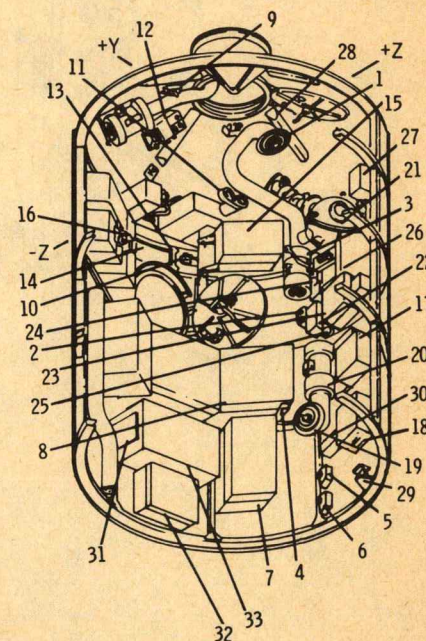
+Y HALF INTERNAL CONFIGURATION

- 1 ATM C&D FOOT RESTRAINT
- 2 CENTER FILM TREE
- 3 FILM VAULT 3
- 4 UTILITY OUTLET NO. 2
- 5 EREP TAPE RECORDER
- 6 S192 ELECTRONICS
- 7 S190 STOWAGE CONTAINER
- 8 EREP C&D CONSOLE
- 9 FAN MUFFLER ASSY
- 10 FLEXIBLE DUCT DEPLOYED
- 11 FORWARD LIGHTS (2)
- 12 ILLUMINATION LIGHT SWITCH
- 13 DROGUE STOWAGE
- 14 4 IN. VENT PLUG AND PANEL
- 15 PROBE STOWAGE
- 16 S009 NUCLEAR EMULSION EXP
- 17 FLIGHT DATA FILE
- 18 CO₂ CONTAINER
- 19 FIRE EXTINGUISHER
- 20 UTILITY OUTLET NO. 1
- 21 DIGITAL ADDRESS SYSTEM (DAS)
- 22 ATM C&D CONSOLE
- 23 UTILITY OUTLET NO. 3
- 24 TV INPUT STATION
- 25 VIDEO CONTROL
- 26 SPEAKER INTERCOM ASSY
- 27 RADIO NOISE BURST MONITOR PANEL
- 28 RADIO NOISE BURST MONITOR PANEL
- 29 MISCELLANEOUS STOWAGE CONTAINER
- 30 HIGH POWER ACCESSORY OUTLET NO. 1
- 31 FILM VAULT NO. 1
- 32 WINDOW INTERNAL COVER
- 33 FILM VAULT NO. 4
- 34 AXIAL PRESSURE HATCH STOWAGE
- 35 AFT ILLUMINATION FIXTURES (4)
- 36 SPEAKER INTERCOM ASSEMBLY
- 37 AFT EMERGENCY LIGHT



-Y HALF INTERNAL CONFIGURATION

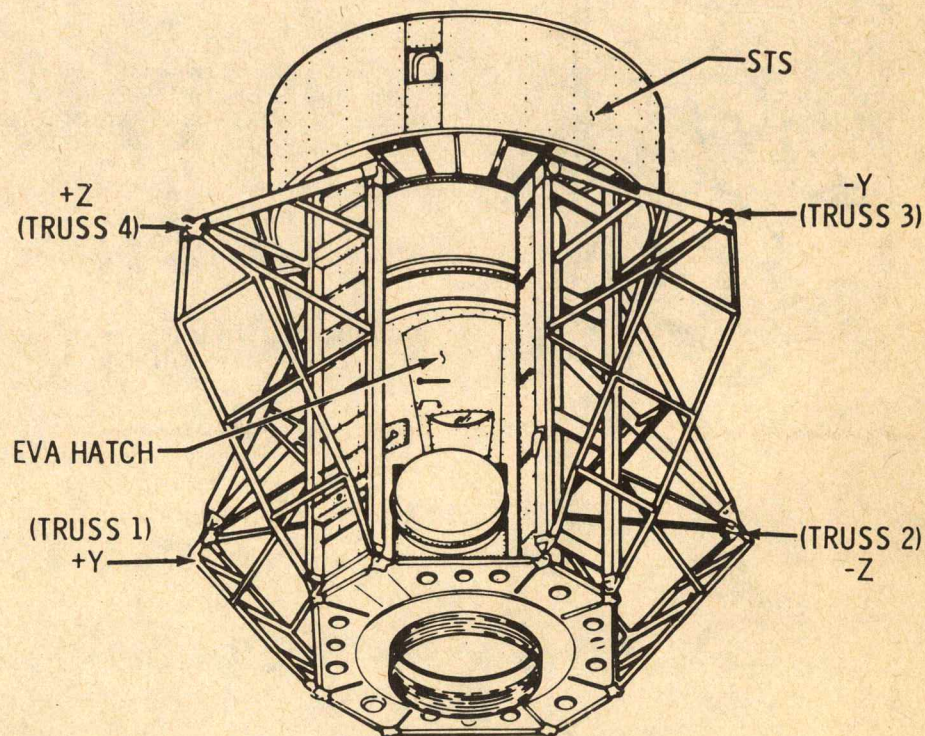
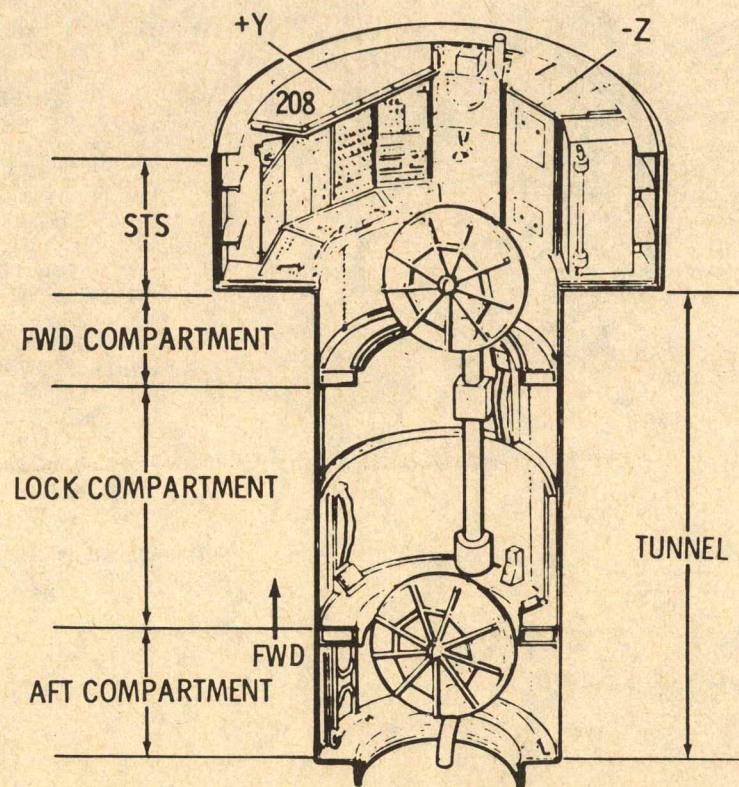
- 1 AIR DIFFUSER NO. 1
- 2 UTILITY OUTLET NO. 2
- 3 FAN & MUFFLER ASSY NO. 1
- 4 TV CAMERA MOUNT
- 5 UTILITY OUTLET NO. 4
- 6 HIGH POWER ACCESSORY OUTLET NO. 2
- 7 INFLIGHT SPARES CONTAINER (M168)
- 8 FILM VAULT NO. 2
- 9 WINDOW HEATER SWITCH ASSY
- 10 WINDOW COVER LATCH
- 11 EREP VIEWFINDER
- 12 SPEAKER INTERCOM ASSY
- 13 WINDOW INTERNAL COVER INSTALLED
- 14 MDA WINDOW
- 15 S190 EXPERIMENT
- 16 WINDOW COVER CRANK
- 17 S082B FILM CANISTER FWD
- 18 S082A FILM CANISTER AFT
- 19 AIR DIFFUSER NO. 2
- 20 FAN & MUFFLER ASSY NO. 2
- 21 M512 EXPERIMENT
- 22 CRYSTAL SAMPLE CONTAINER (M) 138
- 23 METALS MELTING ACCESSORIES (M) 136
- 24 EXOTHERMIC BRAZING CONTAINER (M) 132
- 25 COMPOSITE CASITNG CONTAINER (M) 134
- 26 CONTROL PANEL (M512)
- 27 FUEL IGNITER CONTAINER (M) 122
- 28 FORWARD LIGHTS (2)
- 29 CAMERA MOUNT
- 30 CASSETTE TREE SEWS (M170)
- 31 CASSETT CWS (M162)
- 32 SOP SPACE ENVELOPE (M165)
- 33 10 BAND MULTI SPECTRAL SCANNER



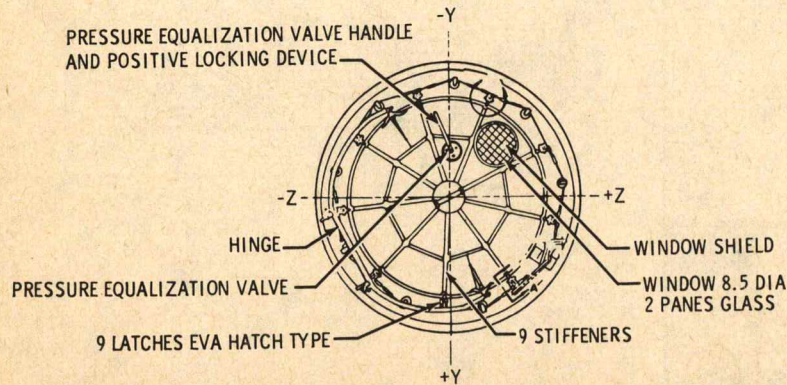
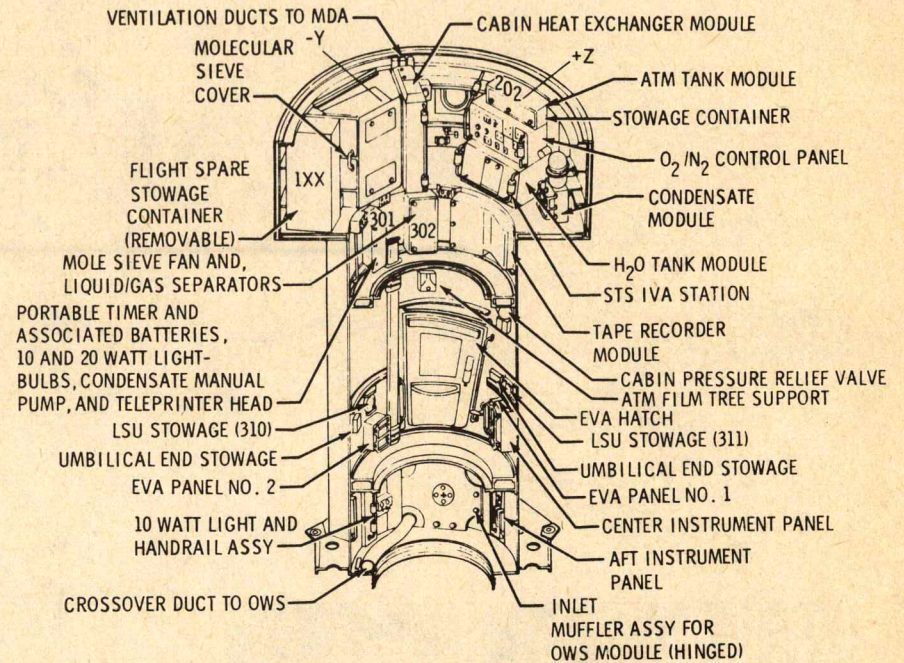
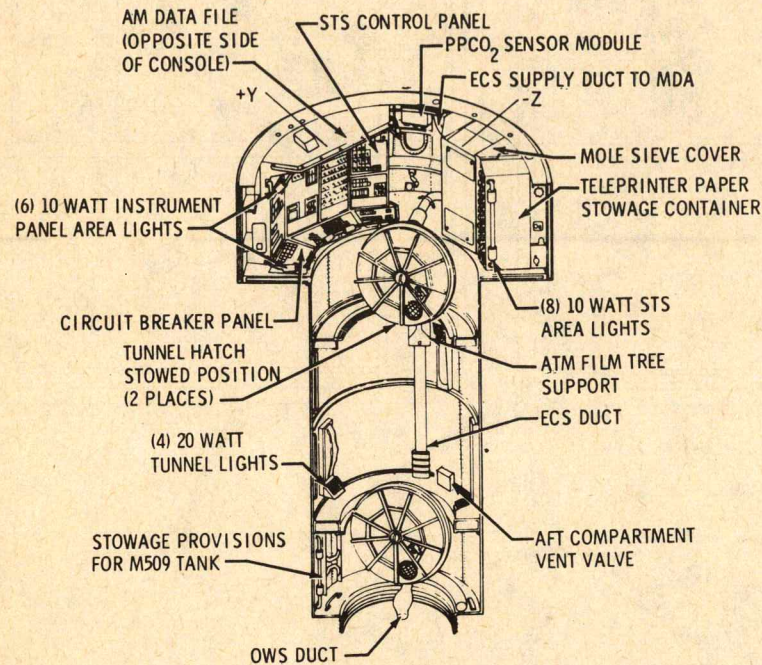
AIRLOCK MODULE (AM)

- LOCK, HATCH AND SUPPORT SYSTEM FOR EXTRAVEHICULAR ACTIVITY (EVA)
- SYSTEMS FOR ENVIRONMENTAL CONTROL, ELECTRICAL POWER CONDITIONING INSTRUMENTATION, ETC
- CONTROLS AND DISPLAYS FOR OPERATIONAL MANAGEMENT OF OA SYSTEMS

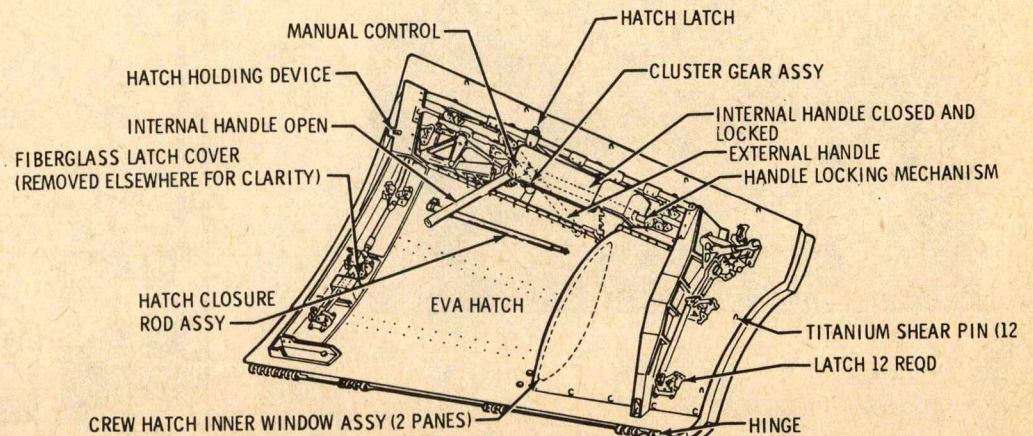
WEIGHT: 14,500 LB
VOLUME: 624 CU FT
HEIGHT: 17.5 FT
DIAMETER: 10 FT STS
| 5.5 FT TUNNEL

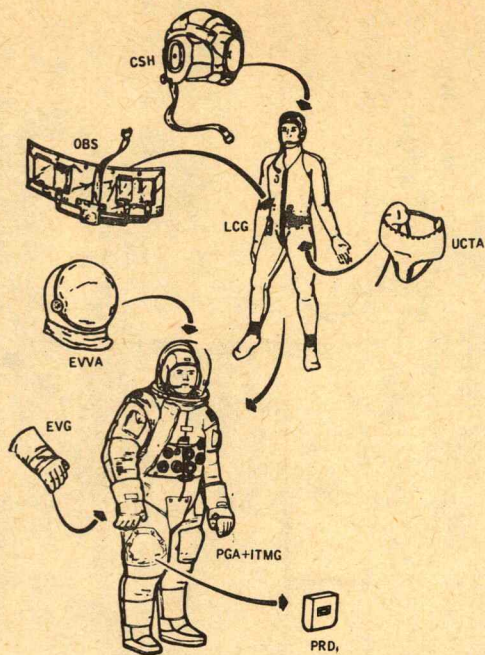
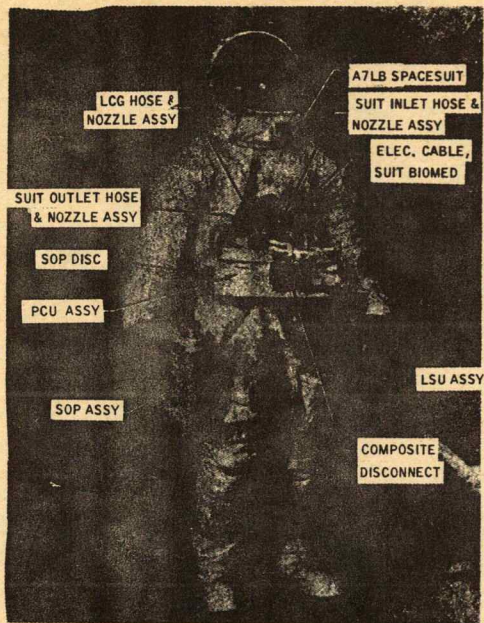


AM INTERNAL CONFIGURATION

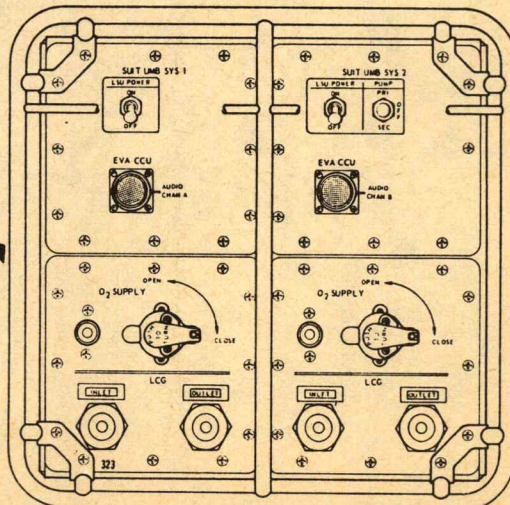
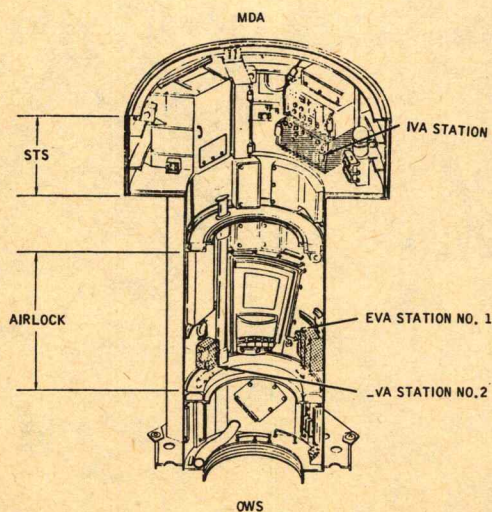
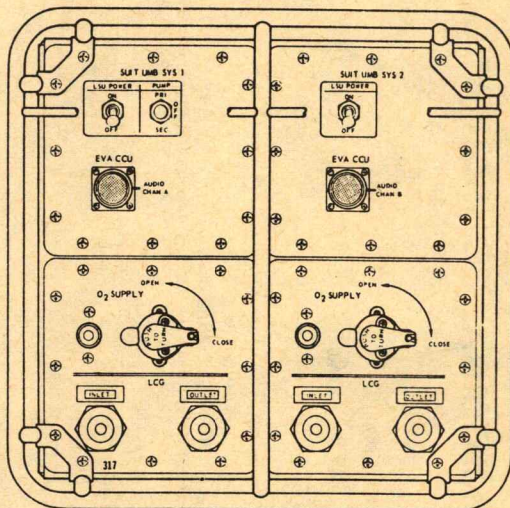
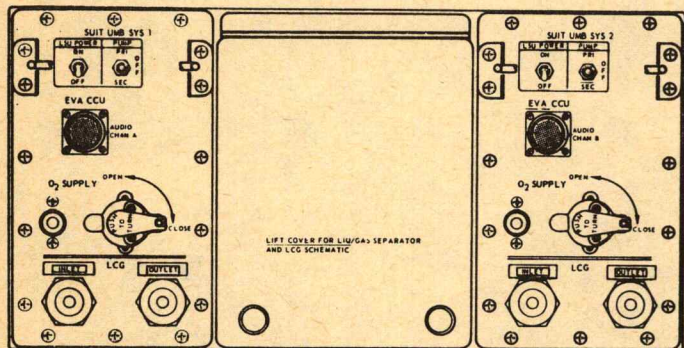


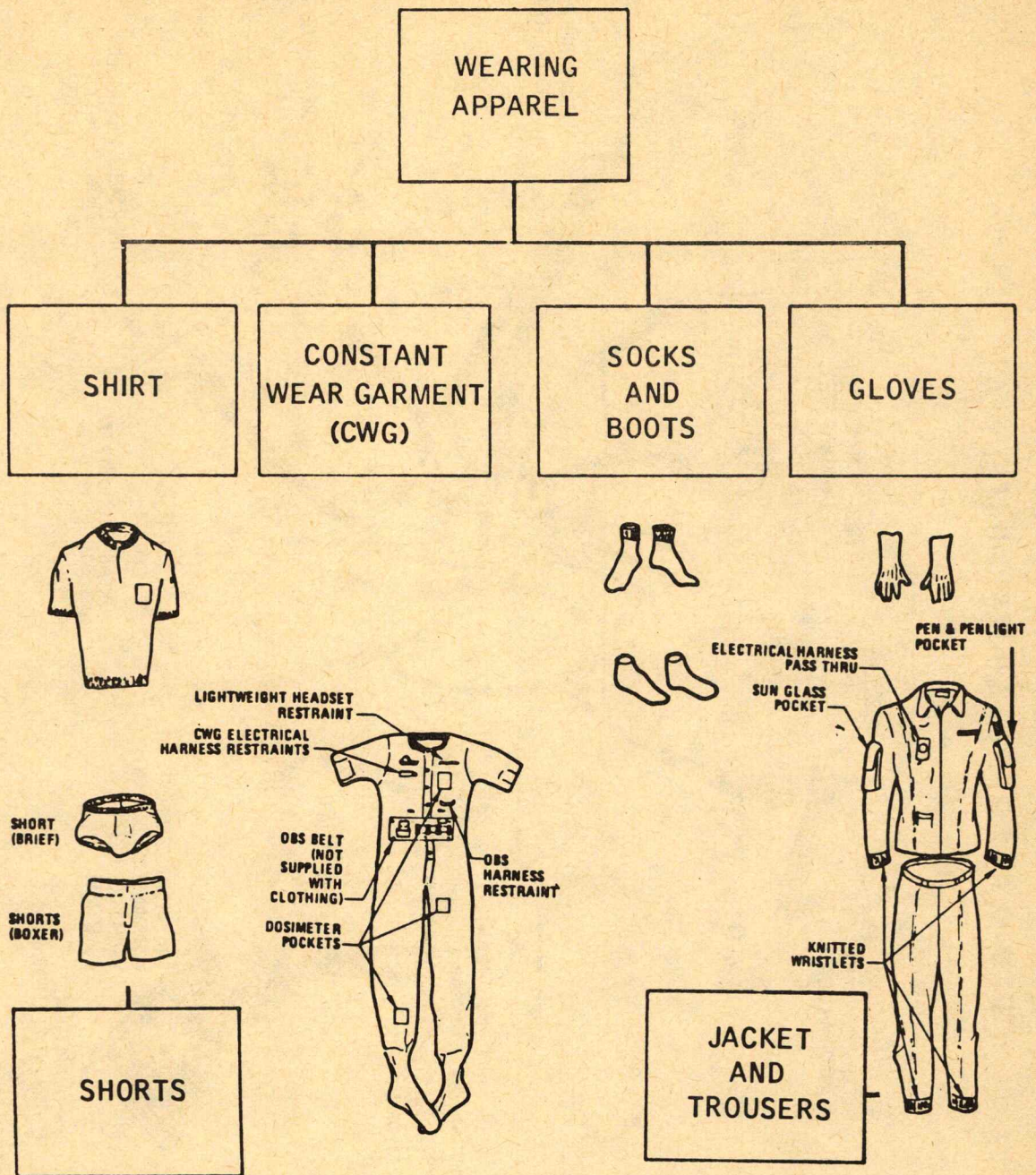
NOTE: DIA OF HATCH OPENING 47.3 INCHES



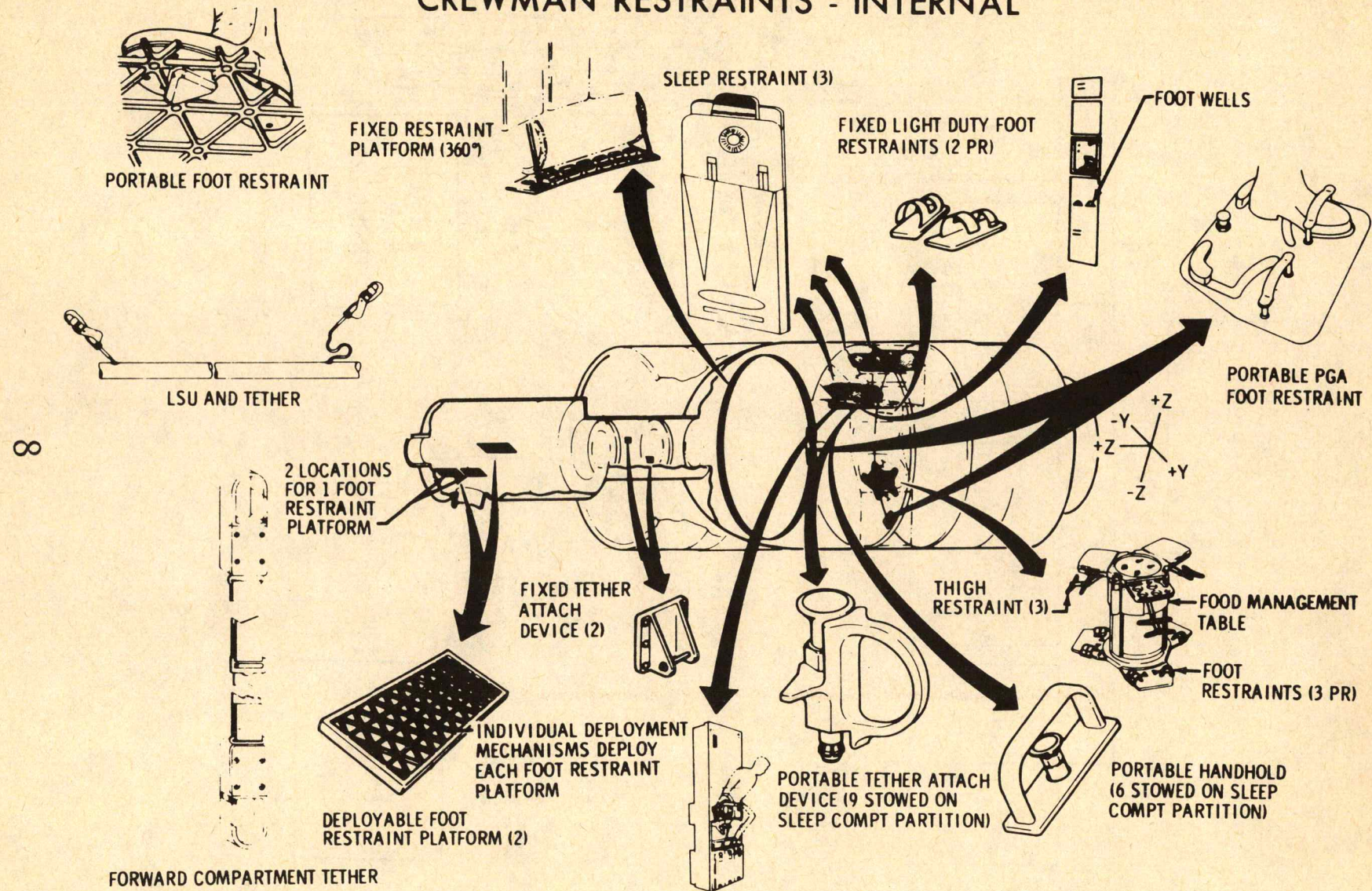


EVA SUPPORT

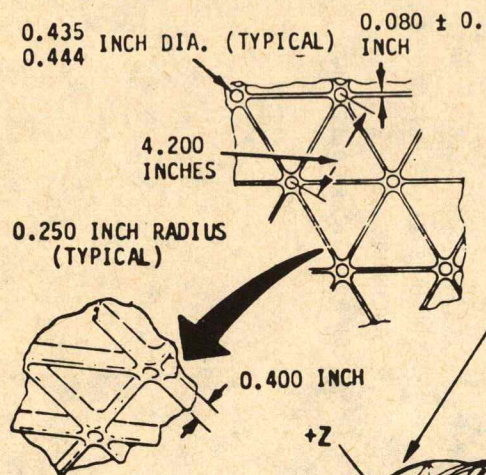




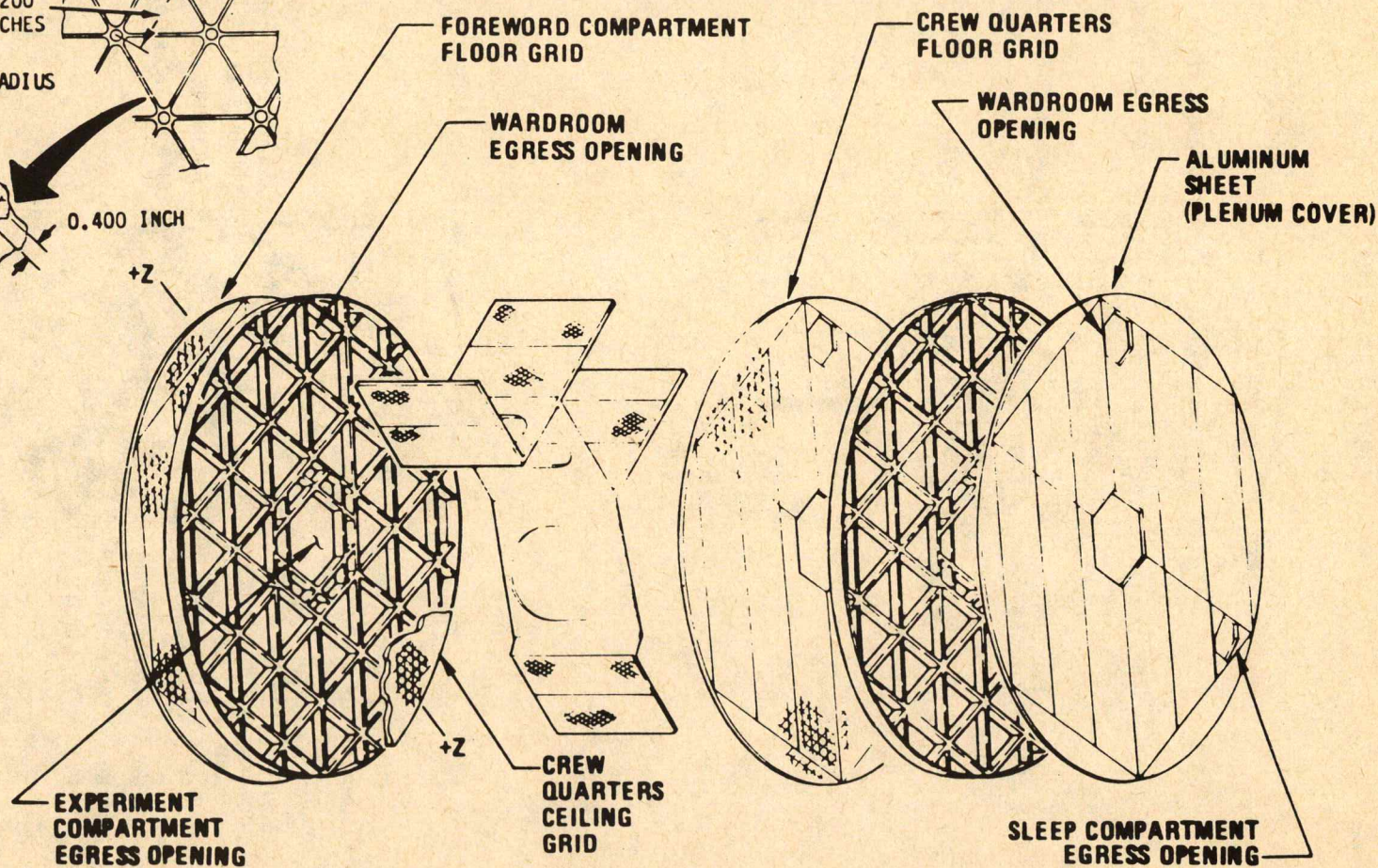
CREWMAN RESTRAINTS - INTERNAL



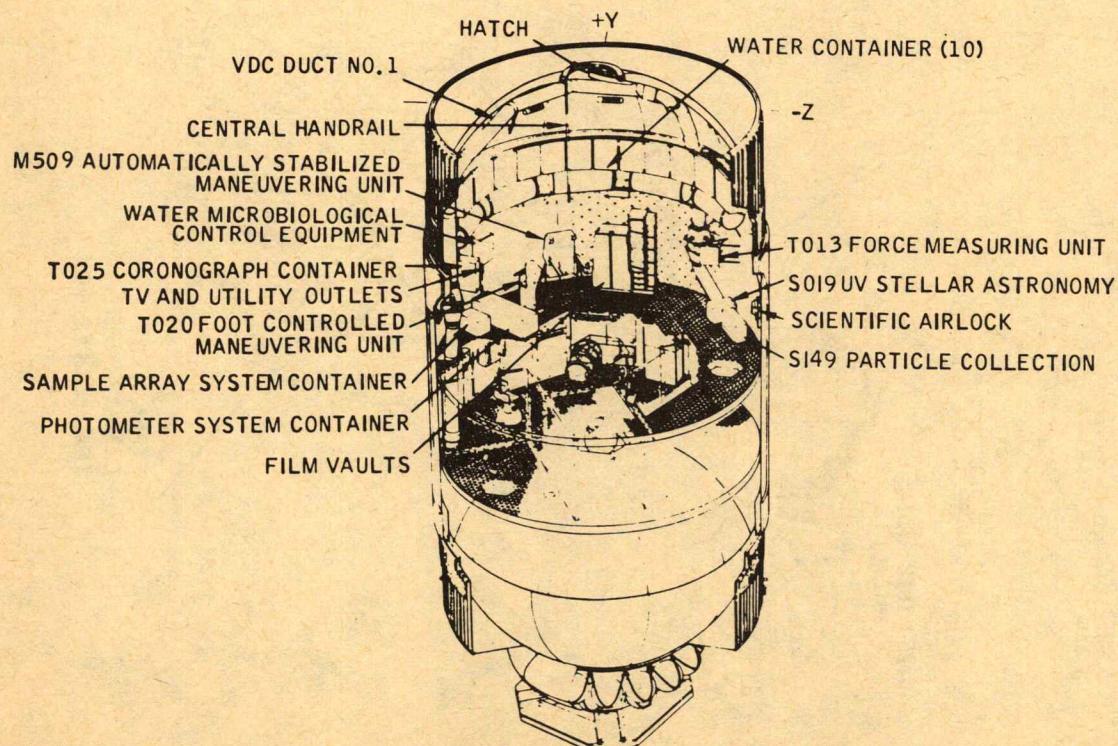
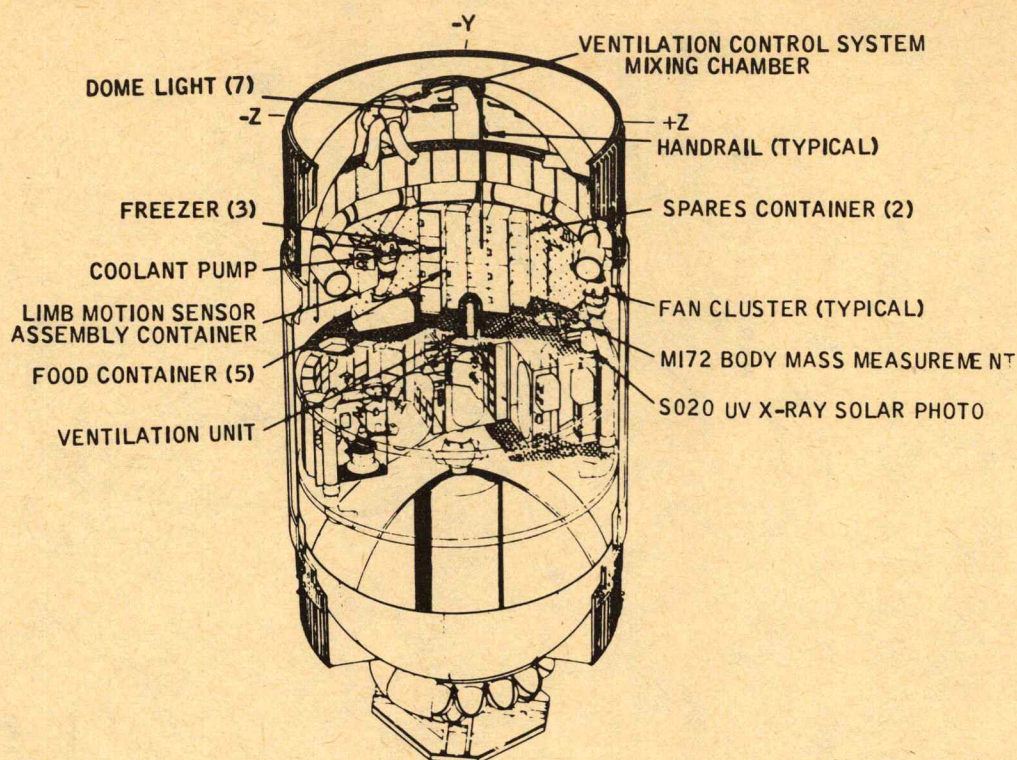
TRIANGULAR GRID



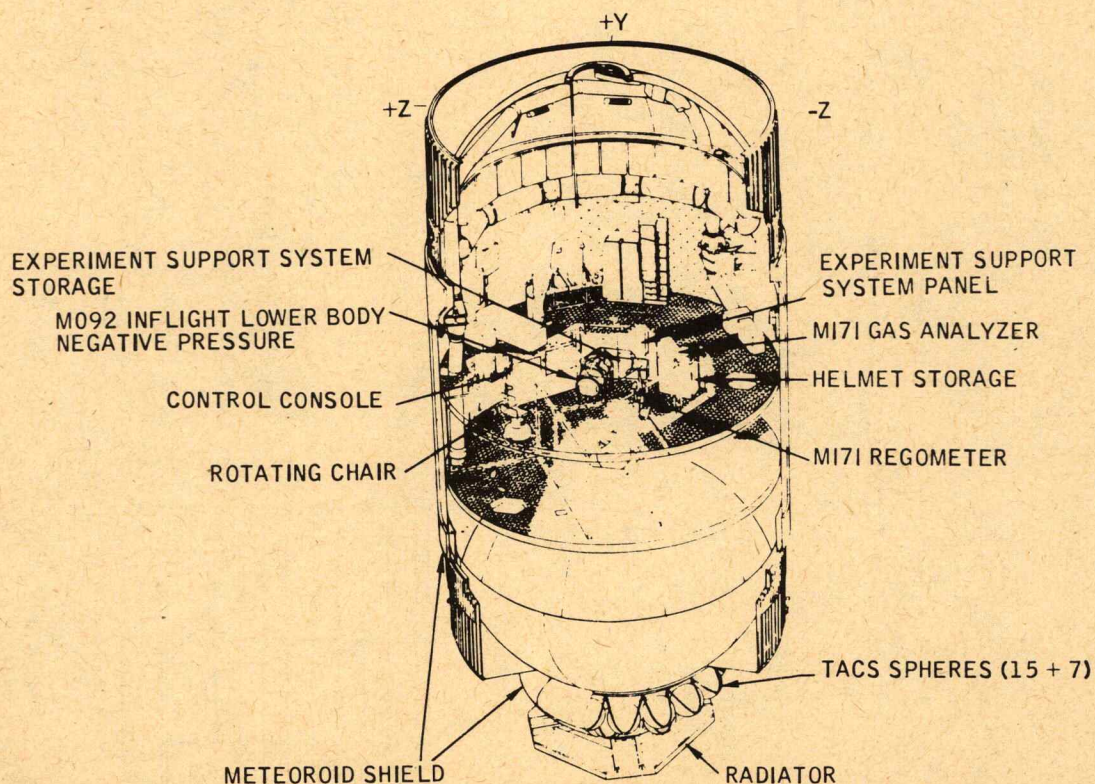
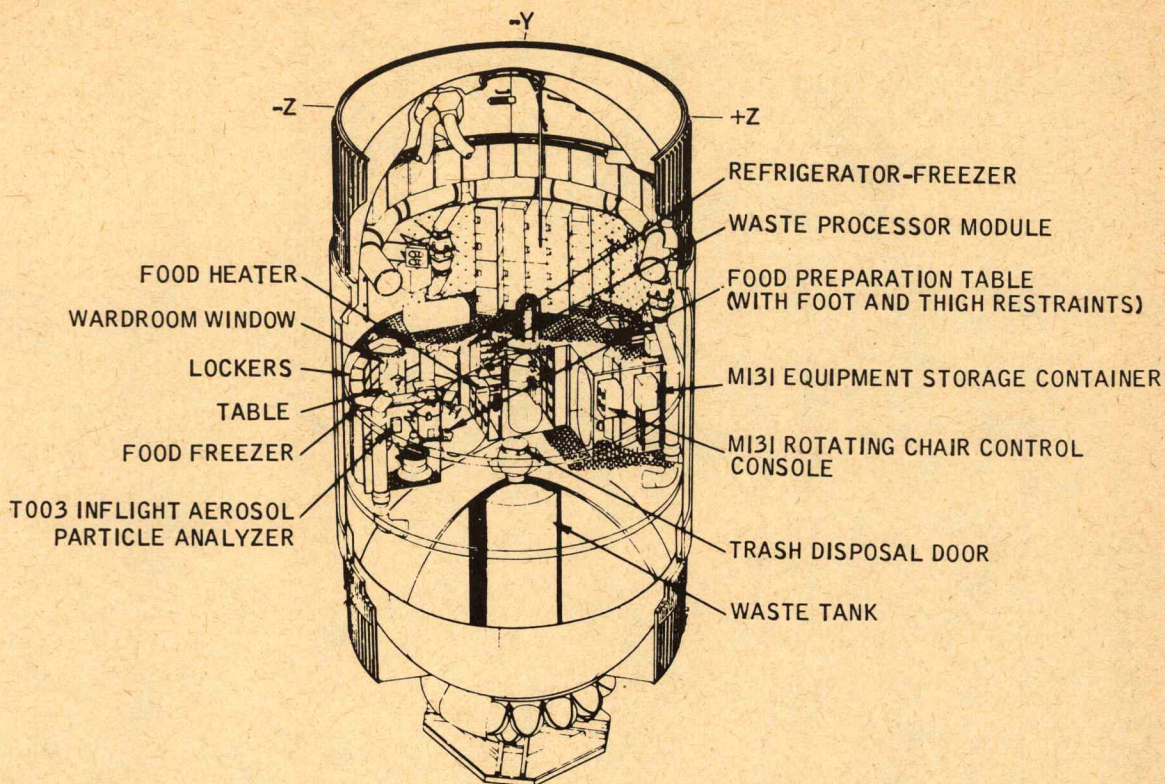
CREW QUARTERS STRUCTURAL ARRANGEMENT



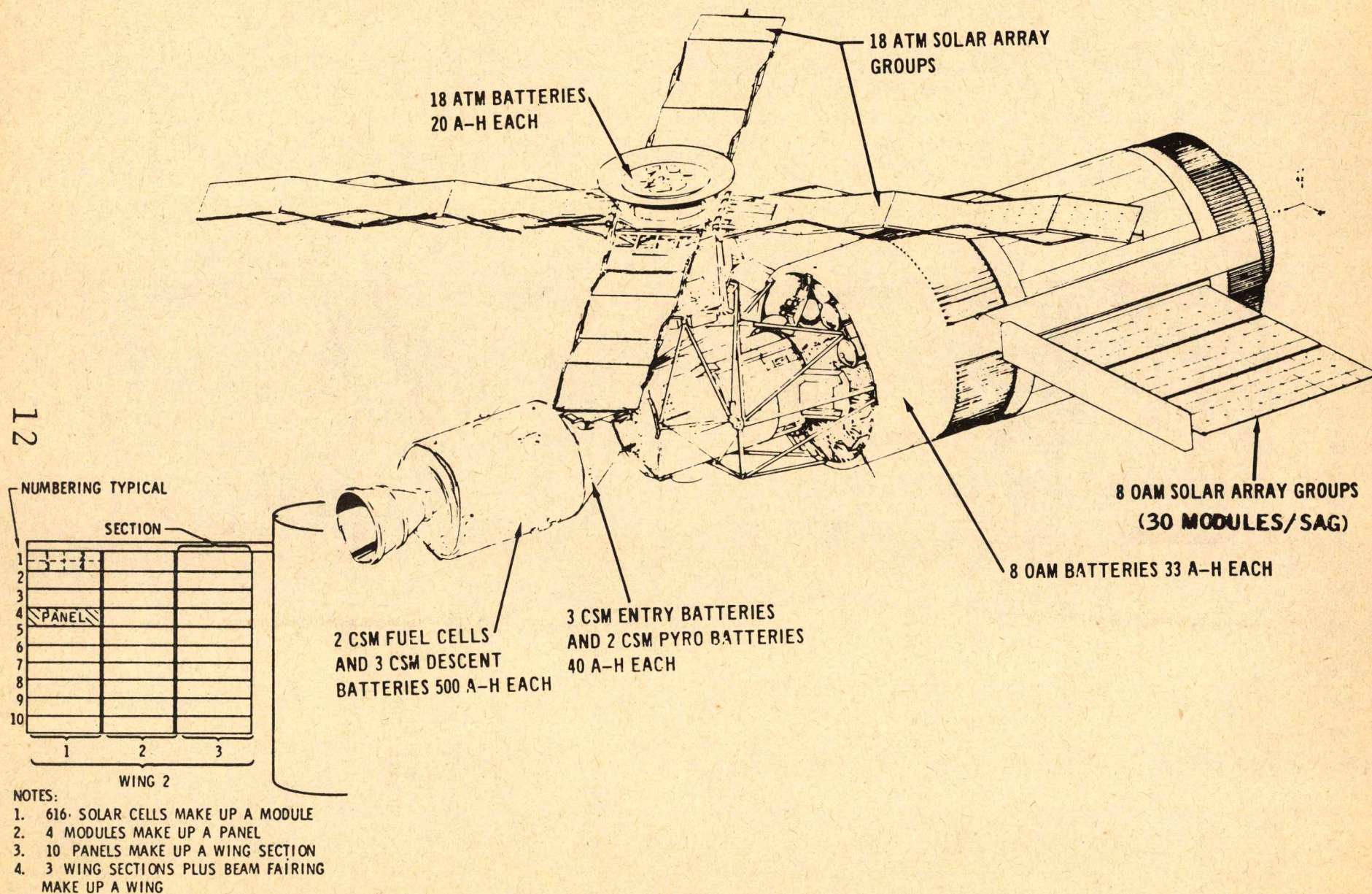
EQUIPMENT LOCATION



EQUIPMENT LOCATION



OA POWER SOURCES AND LOCATIONS



ABBREVIATIONS AND ACRONYMS

Abbreviations shall be used for all tenses, the possessive case, participle endings, the singular or plural, and the noun and modifying forms.

ac	- alternating current	cntr	- controller
acc	- accessory	conv	- converter
ACCESS	- accessory (This abbr appearing in the left-hand side of the Procedures column indicates that related steps apply to the following Hi Pwr Acc outlets: 115, 139, 402, 521, 531, 551, 631, 803)	cool	- coolant
		CRDU	- Command Relay Driver Unit
accum	- accumulator	CS	- Crew Systems
ACS	- Attitude Control System	CSM	- Command and Service Module
adj	- adjustment	ctr	- center
AH	- ampere hour	cw	- clockwise
AID	- Air interchange Duct	C/W	- Caution and Warning
altn	- alternate	CWG	- Constant Wear Garment
AM	- Airlock Module	CWS	- Center Work Station
amp	- ampere, amplifier	DA	- Deployment Assembly
ant	- antenna	dc	- direct current
ATM	- Apollo Telescope Mount	DCS	- Digital Command System
att	- attitude	decr	- decrease
auto	- automatic	delta P	- differential pressure
bat	- battery	disc	- discone
blwr	- blower	disch	- discharge
BMD	- Body Mass Measurement	discon	- disconnect
bp	- barber pole	disp	- display
Btu	- British thermal unit	dkg	- docking
byp	- bypass	dply	- deploy
byps	- bypass	ECS	- Environmental Control System
cab	- cabin	EKG	- electrocardiogram
cal	- calibrate	elec	- electrical
camr	- camera	elect	- electronics
caut	- caution	emer	- emergency
cb	- circuit breaker	enbl	- enable
CCU	- Crewman Communications Umbilical	EPS	- Electrical Power System
ccw	- counterclockwise	equal	- equalization
C&D	- Control & Display	ER	- Earth Resources
CDR	- Commander (Cmn 1)	EREP	- Earth Resources Experiment Package
cfm	- cubic feet per minute	ESS	- Experiment Support System
chan	- channel	EVA	- Extravehicular Activity
chg	- charge	exch	- exchanger
chgr	- charger	exp	- experiment
circ	- circulation	F	- (degrees) Fahrenheit
clnt	- coolant	FDB	- Flight Data Base
clstr	- cluster (orbital assembly)	fps	- feet per second
CM	- Command Module	FSA	- Fire Sensor Assembly
cmd	- command	FSCP	- Fire Sensor Control Panel (This abbr appearing in the left-hand side of the Procedures column indicates that related steps apply to the following UV Fire Detector Panels: 120, 236, 237, 238, 392, 529, 530, 618, 619, 633, 638, 639)
Cmn	- crewman		
cmptr	- computer	fwd	- forward
cndsate	- condensate	g	- gravity
cndst	- condensate	GMT	- Greenwich Mean Time
cnst	- canister	GN2	- gaseous nitrogen
cntl	- control	gnd	- ground
CO2	- carbon dioxide	G02	- gaseous oxygen
comm	- communication	grp	- group
compt	- compartment	GSE	- Ground Support Equipment
cond	- condition	hi	- high
condg	- conditioning	HFI	- high-performance insulation
conn	- connector	hr	- hour
cont	- control	HSS	- Habitability Support System
cont'd	- continued		

ht	- heat	PCU	- Pressure Control Unit
htr	- heater	PGA	- Pressure Garment Assembly
HX	- heat exchanger	Plt	- Pilot (Cmn 3)
Hz	- Hertz	PLV	- post landing ventilation
icom	- intercom	pneu	- pneumatic
IFM	- Inflight Maintenance	pnl	- panel
I/LCA	- inverter/light control assembly	pos	- position
in	- inch	pot	- potentiometer
IN	- inlet	PP	- partial pressure
incr	- increase	ppm	- parts per million
ind	- indicator	press	- pressure
inhbt	- inhibit	pri	- primary
inj	- injector	prog	- program
instr	- instrumentation	psi	- pounds per square inch
interchg	- interchange	psia	- pounds per square inch absolute
INTERCOM	- intercom (This abbr appearing in the left-hand side of the Procedures column indicates that related steps apply to the following speaker intercom assemblies: 102, 116, 131, 401, 520, 540, 600, 627, 702, 801, 901, 902, 903)	psid	- pounds per square inch differential
		psig	- pounds per square inch gauge
		PSS	- Propellant Supply Subsystem
		pt	- point
		pwr	- power
		QCM	- Quartz crystal microbalance
		qd	- quick-disconnect
		qtrs	- quarters (WMC = wardrm + exp compt + sleep compt)
inv	- inverter	rad	- radiator
ips	- inches per second	rcd	- record
IVA	- intravehicular activity	rcdr	- recorder
LBNP	- Lower Body Negative Pressure	rechg	- recharge
LCG	- liquid cooling garment	ref	- reference
LH	- left hand	réfrig	- refrigeration
LH2	- liquid hydrogen	reg	- regulator
LiOH	- lithium Hydroxide	regen	- regenerative
lmtd	- limited	res	- reservoir
lnch	- launch	RH	- right hand
LO	- low	rly	- relay
LSU	- Life Support Umbilical	RS	- Refrigeration System
lt	- light	SAL	- Scientific Airlock
ltg	- lighting	SAS	- Solar Array System
malf	- malfunction	sat	- saturated
man	- manual	sec	- secondary
max	- maximum	sel	- selector
MDA	- Multiple Docking Adapter	seq	- sequential
mem	- memory	SEVA	- Skylab Extravehicular Visor Assembly
MET	- Mission Elapsed Time	sig	- signal
min	- minutes/minimum	SL	- Skylab
mm	- millimeter	SL-1,2 etc.	- Mission designation
mmHg	- millimeters of Mercury	SLEOH	- Skylab Experiments Operations Handbook
mn	- main	SLOH	- Skylab Operations Handbook
MNA	- main A	SM	- Service Module
MNB	- main B	SMMD	- Specimen Mass Measurement Device
mol	- molecular	snr	- sensor
mom	- momentary	SOP	- Secondary Oxygen Package
mon	- monitor	spect	- spectrometer
MPF	- Multispectral Photographic Facility	SPG	- single-point ground
MSC	- Manned Spacecraft Center	spkr	- speaker
MSFC	- George C. Marshall Space Flight Center	SPT	- Scientist pilot (Cmn 2)
MSFN	- Manned Spaceflight Network	STDN	- Spacecraft Tracking Data Network
mux	- multiplexer	strt	- start
N2	- nitrogen	STS	- Structural Transition Section
N/A	- not applicable	sup	- supply
NASA	- Nasa Aeronautics and Space Administration	SUS	- Suit Umbilical System
norm	- normal	sv	- sieve
O2	- oxygen	sw	- switch
OA	- Orbital Assembly (CSM + SWS)	SWS	- Saturn Workshop (ATM/OWS/AM/MDA)
OSH	- off-scale high	sync	- synchronization
OSL	- off-scale low	sys	- system
OUT	- outlet	TACS	- Thruster Attitude Control System
overtemp	- overtemperature	tb	- talkback
OWS	- Orbital Workshop	TBS	- To Be Supplied
oz	- ounces	TCS	- Thermal Control System
P	- pressure		
pb	- pushbutton		
PCG	- power conditioning group		

Te	- elapsed time	UV	- ultraviolet
temp	- temperature	V	- volts
tgl	- toggle	VABD	- Van Allen Belt Dosimeter
therm	- thermal	vc	- EVA Center Work Station
TLM	- Telemetry	VHF	- Very high frequency
TM	- Telemetry	vlv	- valve
tmrs	- timers	vol	- volume
Tr	- Time to go to redundant receiver/ decoder	VOX	- Voice Operated Transmission
TRS	- Time Reference System	vrms	- voltage root mean squared
ttg	- time to go	vs	- EVA Sun End Work Station
tunl	- tunnel	VTS	- Viewfinder/Tracking System
TV	- Television (This abbr appearing in the left-hand side of the Procedures column indicates that related steps apply to the following television stations: 133, 320, 404, 55, 642)	wardrm	- wardroom
	- thumbwheel	warn	- warning
tw	- time to go to equipment reset	window	- window
tx	- Urine Collection and Transfer Assembly	WMC	- Waste Management Compartment
UCTA	- ultra-high frequency	WMS	- Waste Management System
UHF	- Unified S-band	xducer	- transducer
USB	- Utility (This abbr appearing in the left-hand side of the Procedures column indicates that related steps apply to the 140, 213, 214, 219, 221, 316, 390, 402, 521, 531, 551, 601, 628, 711, 803)	xfer	- transfer
UTIL		xmit	- transmit
		xmtr	- transmitter
		xover	- crossover
		xpnder	- transponder
		XLV	- Z-local vertical
		ZPN	- impedance pneumogram

CONTROLS AND DISPLAYS

In the cluster reference system herein, panel numbering is sequenced starting with the Multiple Docking Adapter and extends back (-X direction) toward the Orbital Workshop. The panels are numbered in sequence, clockwise, within each module. Panels within each module or structural division use a hundred series number, thereby avoiding repetition of a given number within different modules. The major module, structural division, and first order numbering systems used are listed below:

Multiple Docking Adapter	100 - 199
Airlock Module	200 - 399
Orbital Workshop	400 -1099

During orbital operation, the Command Module and Saturn Workshop will be referred to as separate operational units; therefore, the Command Module C&D panels retain their present numbering system.

A tabular summary of the Saturn Workshop C&D panels and number designations, a C&D panel locator index, and pictorial illustrations of OWS/AM/MDA C&D panels are included.

Page B-5 provides a summary of OA crew stations and their identifiers which are used for flight planning and activity element purposes. Each crew station consists of groups of C&D panels consistent with the numbering sequences defined herein.

100 - 199 Multiple Docking Adapter

100 - Axial Hatch	119 - Unassigned
101 - Interior Lights Panel	120 - Fire Sensor Control Panel
102 - Intercom Box	*121 - DAS Backup
103 - Vent Panel	122-127 - Unassigned
104 - Utility Outlet #3	*128 - Radio Noise Burst Monitor (Backup)
*105 - Experiment M512	*129 - Radio Noise Burst Monitor
*106 - Experiment S190	*130 - ATM Display and Control Console
107 - Window Cover Latch	131 - Intercom Box
108 - Window Cover Crank	132 - Video Selector
*109 - Experiment S191 C&D	133 - Television Station
*110 - EREP C&D	134 - Utility Outlet #2
*111 - Experiment S009	135 - EREP Coolant Valve
112 - Utility Outlet #1	*136 - Experiment S192
113 - M512 Work Chamber Vent Valve	137-138 - Unassigned
114 - M512 Bulkhead Vent Valve	139 - High Power Accessory Outlet #2
115 - High Power Accessory Outlet #1	140 - Utility Outlet #4
116 - Intercom Box	141-159 - Unassigned
117 - Window Heater Panel	*160 - ATM Canister Roll Control
118 - Radial Hatch	161-199 - Unassigned

Airlock Module 200 - 399

200 - 299 Structural Transition Section

200 - Circuit Breaker Panel (ECS/I&C)	222 - Unassigned
201 - Circuit Breaker Panel (EPS)	223 - LCG Reservoir Pressurization Valve (System 1)
202 - Circuit Breaker Panel (Miscellaneous)	224 - LCG Reservoir Pressurization Valve (System 2)
203 - Control Panel (ECS)	225 - O2/N2 Control Panel
204 - Control Panel (I&C)	226 - Molecular Sieve A Control Valve Panel
205 - Control Panel (EPS)	227 - Molecular Sieve B Control Valve Panel
206 - Control Panel (EPS/C/W)	228 - Molecular Sieve A Bed Valves
207 - Control Panel (Lighting/C/W)	229 - Molecular Sieve B Bed Valves
208 - Control Panel (Proton Spectrometer)	230 - Mol Sv A Heat Exchanger Valve Panel
209 - Control Panel (Teleprinter)	231 - Unassigned
210 - PCG Control Schematic	232 - Mol Sv B Heat Exchanger Valve Panel
211 - Bus Distribution Schematic	233 - Mol Sv A Air Flow Valve Panel
212 - Clock	234 - MDA/OWS Air Selector Valve
213 - Utility Power Outlet #1	235 - ATM Coolant Reservoir Pressurization Valve
214 - Utility Power Outlet #2	236 - Fire Sensor Control Panel
215 - Unassigned	237 - Fire Sensor Control Panel
216 - Condensate Panel	238 - Fire Sensor Control Panel
217 - Control Panel (IVA)	239 - Mol Sv B Air Flow Valve Panel
218 - Molecular Sieve B Vent Valve	240 - Unassigned
219 - Control Panel (Utility Outlet #3, Mol Sieve B Bed N2 Supply Valve)	241 - STS +Z Window Crank
220 - Molecular Sieve A Vent Valve	242 - STS +Y Window Crank
221 - Control Panel (Utility Outlet #4, Mol Sieve A Bed N2 Supply Valve)	243 - STS -Z Window Crank
	244 - STS -Y Window Crank
	245-299 - Unassigned

300 - 310 AM Forward Compartment

300 - Cabin Pressure Relief Valve

301-310 - Unassigned

311 - 389 AM Lock Compartment

311 - Forward Hatch
312 - Forward Hatch Handle
313 - Cabin Pressure Relief Valve
314 - Unassigned
315 - Unassigned
316 - Control Panel (EVA Support)
317 - Control Panel (EVA #1)
318 - Lock Compartment Depressurization Valve

319 - EVA Hatch Handle
320 - Television Station
321 - Extendible Boom Control Panel
322 - Unassigned
323 - Control Panel (EVA #2)
324 - Unassigned
325 - Aft Hatch
326 - Aft Hatch Handle
327-389 - Unassigned

390 - 399 AM Aft Compartment

390 - Control Panel (OWS Support)
391 - Cabin Pressure Relief Valve

392 - Fire Sensor Control Panel
393 - Condensate Dump Port
394-399 - Unassigned

Orbital Workshop 400 - 1099

400 - 499 Dome

400 - OWS Hatch
401 - Intercom Box
402 - Power Outlet (Utility #1 and #2, High Power Accessory #1 and #2)

403 - Solenoid Vent Port
404 - Television Station
405 - Pneumatic Vent Port
406-499 - Unassigned

500 - 599 Forward Compartment

500 - Control Panel (Water System Pressurization)
501-516 - Unassigned
517 - Scientific Airlock (+Z)
518 - Power Outlet (+Z SAL)
519 - Unassigned
520 - Intercom Box
521 - Power Outlet (Utility #1 and #2, High Power Accessory #1 and #2)
*522 - Experiment T020
*523 - Experiment M509
*524 - Experiment T027
*525 - Experiment S020
526 - Unassigned
*527 - Experiment M172
528 - Unassigned
529 - Fire Sensor Control Panel
530 - Fire Sensor Control Panel

531 - Power Outlet (Utility #3 and #4, High Power Accessory #3 and #4)
532-533 - Unassigned
*534 - Experiment T013
535-539 - Unassigned
540 - Intercom Box
541 - Unassigned
542 - Control Panel (Experiment Recorders)
543 - Scientific Airlock (-Z)
544 - Power Outlet (-Z SAL)
*545 - Experiment S019
546-550 - Unassigned
551 - Power Outlet (Utility #5 and #6, High Power Accessory #5 and #6)
552-554 - Unassigned
555 - Television Station
556-599 - Unassigned

600 - 699 Experiment Compartment

600 - Intercom Box
601 - Power Outlet (Utility #1 and #2)
602-606 - Unassigned
607 - Flare Alert Panel
608-609 - Unassigned
610 - Clock
611 - Circuit Breaker Panel (Refrigeration Sys)
612 - Circuit Breaker Panel (Power Outlet)
613 - Circuit Breaker Panel (Lighting/Exp)
614 - Circuit Breaker Panel (HSS/TCS)
615 - Circuit Breaker Panel (EPS)
616 - Control Panel (Lighting/Refrigeration Sys)
617 - Control Panel (EPS/TCS)
618 - Fire Sensor Control Panel
619 - Fire Sensor Control Panel
*620 - ESS/M171 N2 Panel
*621 - Experiment M092
*622 - Metabolic Analyzer
*623 - Experiment Support System

*624 - Experiment M171
*625 - Experiment M092 Vent Valve
626 - Unassigned
627 - Intercom Box
628 - Power Outlet (Utility #3 and #4)
629 - Unassigned
630 - Control Panel (Wardroom/WMC Lights)
631 - Power Outlet (Utility #5 and #6, High Power Accessory #1 and #2)
*632 - Experiment M131
633 - Fire Sensor Control Panel
634 - Trash Airlock
635-637 - Unassigned
638 - Fire Sensor Control Panel
639 - Fire Sensor Control Panel
640 - Dosimeter Panel
641 - Unassigned
642 - Television Station
643-699 - Unassigned

700 - 799 Wardroom

700 - Control Panel (H2O Dump/Window Heater)	707 - Food Tray 1 Outlet
*701 - Experiment S063 UV Sync Outlet	708 - Food Tray 2 Outlet
702 - Intercom Box	709 - Food Tray 3 Outlet
*703 - Experiment M074	710 - Unassigned
704 - Window Vent Valve	711 - Power Outlet (Utility #1 and #2)
705 - Food Preparation Table	712-799 - Unassigned
706 - Water Dump Valve	

800-899 Waste Management Compartment (WMC)

800 - Control Panel (WMC)	819-821 - Unassigned
801 - Intercom Box	*822 - Experiment M074
802 - Unassigned	823-824 - Unassigned
803 - Power Outlet (Utility #1 and #2, High Power Accessory #1 and #2)	825 - Fecal/Urine Collector
804-816 - Unassigned	826-830 - Unassigned
817 - Waste Processor Circuit Breaker Panel	831 - Water Dump Valve
818 - Waste Processor Vent Valve/Urine Dump	832-899 - Unassigned

900 - 999 Sleep Compartment

900 - Unassigned	903 - Intercom Box
901 - Intercom Box	*904 - Experiment M133
902 - Intercom Box	905-999 - Unassigned

1000 - 1099 Aft Compartment

1000 - Unassigned	1002-1099 - Unassigned
1001 - Refrigeration Pump Package Vacuum Vent Valve	

*Denotes C&D Panels located in SLEOH and SLOH/ATM

ORBITAL ASSEMBLY CREW STATIONS		PANEL NUMBERS	STOWAGE NUMBERS
CM	- COMMAND MODULE	-	-
M	- MDA	100 SERIES	M100 SERIES
ST	- STS	200 SERIES	M200 SERIES
A	- AM; FWD, LOCK & AFT COMPT	300 SERIES	A300 SERIES
VF	- FASS	-	-
VC	- ATM CWS	-	-
VT	- ATM SUN END TRFR	-	-
VS	- ATM SUN END WS	-	-
D	- OWS DOME	400 SERIES	D400
E	- OWS EXP	600 SERIES	E600
F	- OWS FWD	500 SERIES	F500
S	- OWS SLEEP	900 SERIES	S900
W	- OWS WARD	700 SERIES	W700
H	- OWS WMC	800 SERIES	H800
P	- OWS PLENUM	1000 SERIES	-

PANEL	
NO.	NAME
100	AXIAL HATCH
101	INT LIGHT PNL
102	INTERCOM BOX
103	VENT PNL
104	UTILITY OUT 3
105	M512 EXP
106	S190 EXP
107	WINDOW COVER LATCH
108	WINDOW COVER CRANK
109	S191 EXP D&C PNL
110	EREP PNL
111	S009 EXP
112	UTILITY OUT 1
113	M512 CHBR VENT VLV
114	M512 BLKHD VENT VLV
115	HIGH PWR ACCY OUT 1
116	INTERCOM BOX
117	WINDOW HTR PNL
118	RADIAL HATCH
120	FIRE SENSOR CNTL PNL
121	DAS
128	RADIO NOISE BURST MON
129	RADIO NOISE BURST MON
130	ATM D&C PNL
131	INTERCOM BOX
132	VIDEO PNL
133	TV STATION
134	UTILITY OUT 2
135	EREP COOL VLV
136	S192 EXP
139	HIGH PWR ACCY OUT 2
140	UTILITY OUT 4
160	ATM EXT CNST ROLL

PANEL	
NO.	NAME
200	CB PNL (ECS/I&C)
201	CB PNL (EPS)
202	CB PNL (MISC)
203	CNTL PNL (ECS)
204	CNTL PNL (I&C)
205	CNTL PNL (EPS)
206	CNTL PNL (EPS, C&W)
207	CNTL PNL (LTG, C&W)
208	CNTL PNL (PROT SPECT)
209	CNTL PNL (TELEPRINT)
210	PCG CNTL SCH
211	BUS DISTR. SCH.
212	CLOCK
213	UTILITY OUT 1
214	UTILITY OUT 2
216	CNTL PNL (CNDSATE)
217	CNTL PNL (IVA)
218	MOL SV B VENT VLV
219	UTILITY OUT 3 (MOL SV B BED N ₂ VLV)
220	MOL SV A VENT VLV
221	UTILITY OUT 4 (MOL SV A BED N ₂ VLV)
223	SYS 1 LCG RES PRESS VLV
224	SYS 2 LCG RES PRESS VLV
225	O ₂ /N ₂ CNTL SYS PNL
226	MOL SV A VLV CNTL
227	MOL SV B VLV CNTL
228	MOL SV A BED VLVS
229	MOL SV B BED VLVS
230	MOL SV A HT EXCH CNTL PNL
232	MOL SV B HT EXCH CNTL PNL
233	MOL SV A AIRFLOW VLV PNL
234	MDA/OWS AIR SEL VLV
235	ATM CLNT RES PRESS VLV
236	FIRE SENSOR CNTL PNL
237	FIRE SENSOR CNTL PNL
238	FIRE SENSOR CNTL PNL
239	MOL SV B AIRFLOW VLV PNL
241	STS WINDOW CRANK +Z
242	STS WINDOW CRANK +Y
243	STS WINDOW CRANK -Z
244	STS WINDOW CRANK -Y

PANEL	
NO.	NAME
400	OWS HATCH, PRESS EQ VLV
401	INTERCOM BOX
402	PWR OUT (UTILITY 1&2 HIGH PWR ACCY 1&2)
403	SOLENOID VENT PORT
404	TV STATION
405	PNEUMATIC VENT PORT

PANEL	
NO.	NAME
390	CNTL PNL (OWS, LTG, TCS)
391	CABIN PRESS RELIEF VLV
392	FIRE SENSOR CNTL PNL
393	CONDENSATE DUMP PORT

PANEL	
NO.	NAME
500	WATER SYS PRESS PNL
517	+Z SAL
518	+Z SAL PWR OUT
520	INTERCOM BOX
521	PWR OUT (UTILITY 1&2 HIGH PWR ACCY 1&2)
522	T020 EXP
523	M509 EXP
524	T027 EXP
525	S020 EXP
527	M172EXP
530	FIRE SENSOR CNTL PNL
531	FIRE SENSOR CNTL PNL
531	PWR OUT (UTILITY 3&4, HIGH PWR ACCY 3&4)
534	T013 EXP
540	INTERCOM BOX
542	EXP RCDR CNTL PNL
543	-Z SAL
544	-Z SAL PWR OUT
545	S019 EXP
551	PWR OUT (UTILITY 5&6 HIGH PWR ACCY 5&6)
555	TV STATION

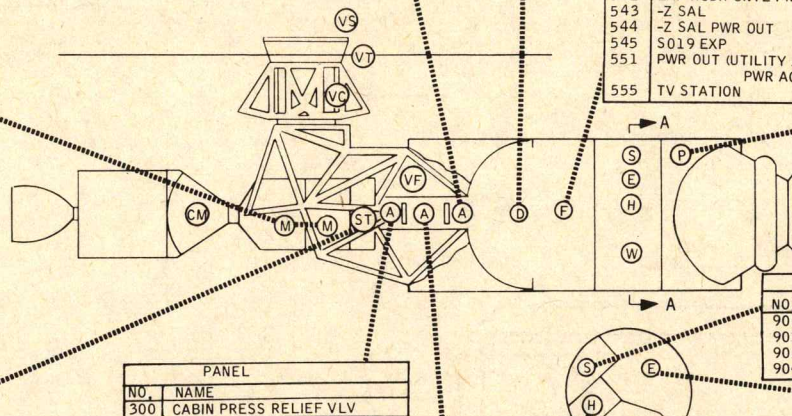
PANEL	
NO.	NAME
1001	REFR PUMP PKG
	VAC VENT VLV

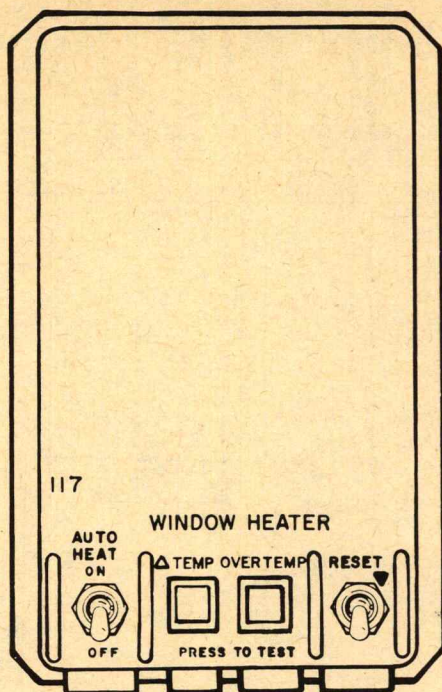
PANEL	
NO.	NAME
600	INTERCOM BOX
601	UTILITY OUT 1&2
607	FLARE ALERT PNL
610	CLOCK
611	CB PNL REFRIG
612	CB PNL HI PWR & UTIL OUT, TV
613	CB PNL LTG, EXP, C&W
614	CB PNL HSS TCS
615	CB PNL EPS
616	CB PNL LTG, REFRIG, C&W
617	CB PNL EPS, INSTR, TCS
618	FIRE SENSOR CNTL PNL
619	ESS/M171 N ₂ SUPPLY PNL
620	M092 EXP
622	METABOLIC ANALYZER
623	ESS
624	M171 EXP
625	M092 VAC VENT VLV
627	INTERCOM BOX
628	UTILITY OUT 3&4
630	CNTL PNL WARDRM/WMC LTGS
631	PWR OUT (UTILITY 5&6, HIGH PWR ACCY 1&2)
632	M131 EXP
633	FIRE SENSOR CNTL PNL
634	TRASH AIRLOCK
638	FIRE SENSOR CNTL PNL
639	FIRE SENSOR CNTL PNL
640	VAN ALLEN BELT DOSIMETER
642	TV STATION

PANEL	
NO.	NAME
901	INTERCOM BOX
902	INTERCOM BOX
903	INTERCOM BOX
	M133 EXP

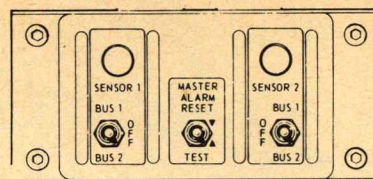
PANEL	
NO.	NAME
700	CNTL PNL H ₂ O DUMP/ WINDOW HTR
701	S063 UV SYNC
702	INTERCOM BOX
703	M074 EXP
705	FOOD PREP TABLE
706	WATER DUMP VLV
707	FOOD TRAY 1 OUTLET
708	FOOD TRAY 2 OUTLET
709	FOOD TRAY 3 OUTLET
711	PWR OUT (UTILITY 1 & 2)

PANEL	
NO.	NAME
800	CNTL PNL WMC
801	INTERCOM BOX
803	PWR OUT (UTILITY 1&2 HIGH PWR ACCY 1&2)
817	CB PNL WASTE PROCESSOR
818	PROCESSOR VENT / URINE DUMP
822	M074 EXP
825	FECAL/URINE COLLECTOR
831	WATER DUMP VLV

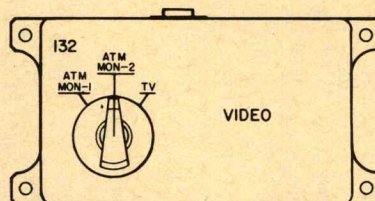




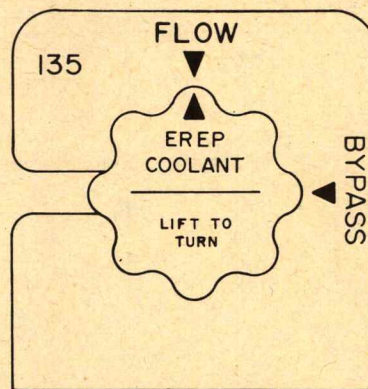
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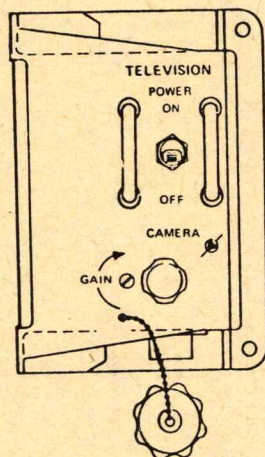
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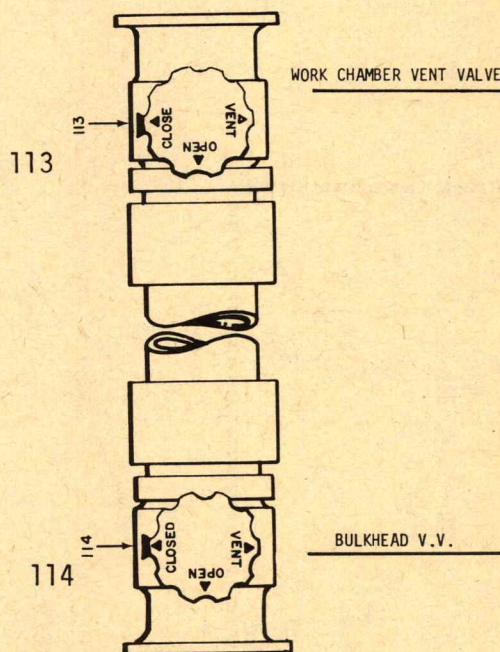
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135

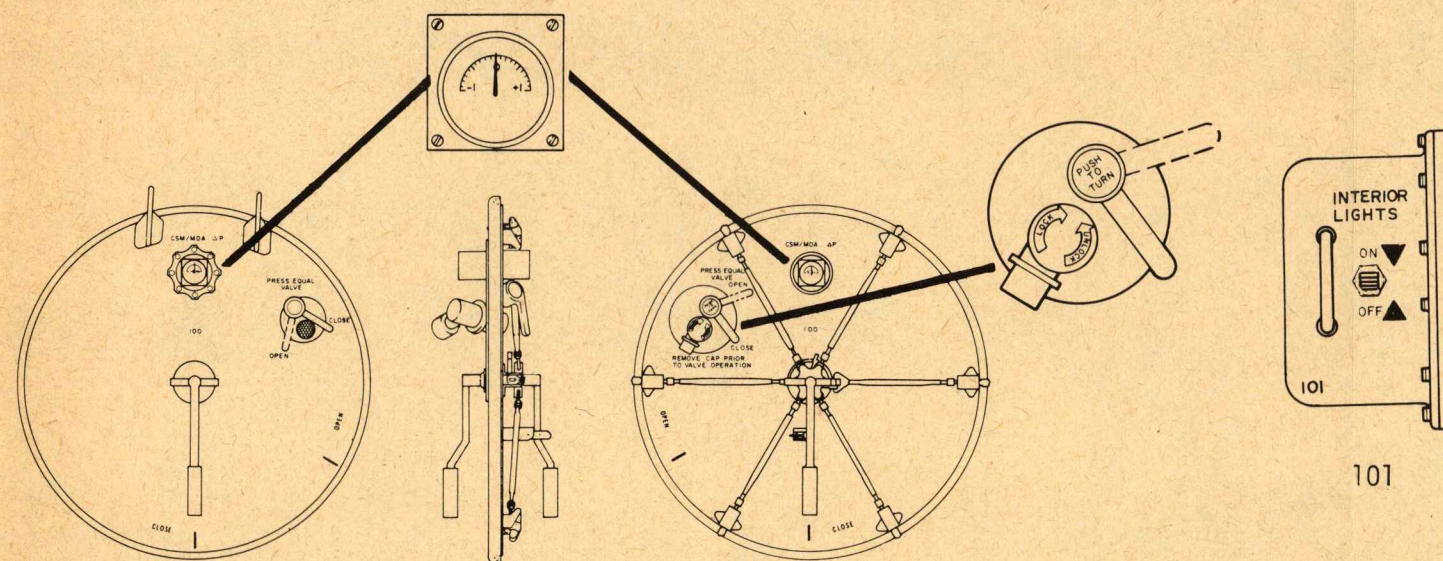
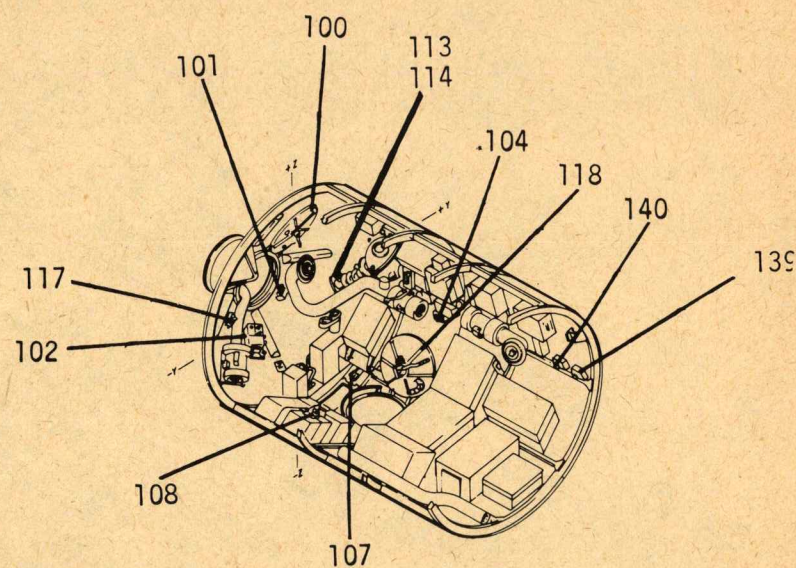


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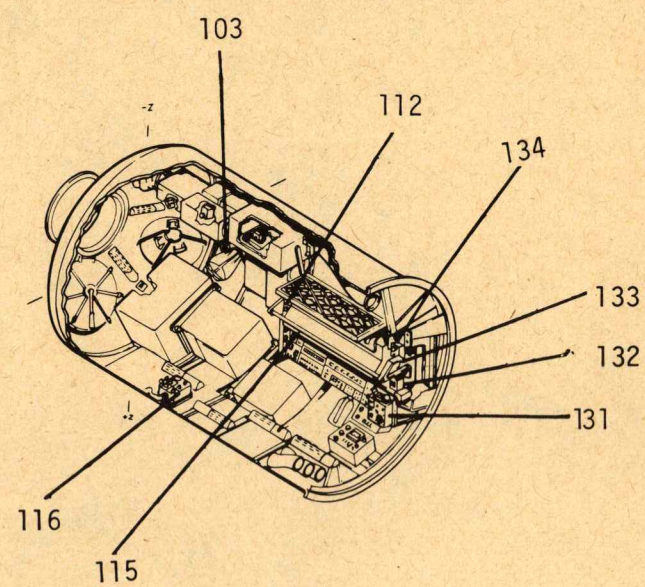


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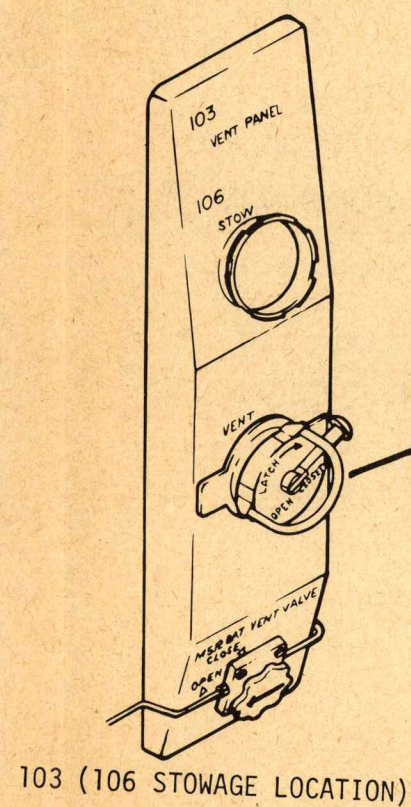
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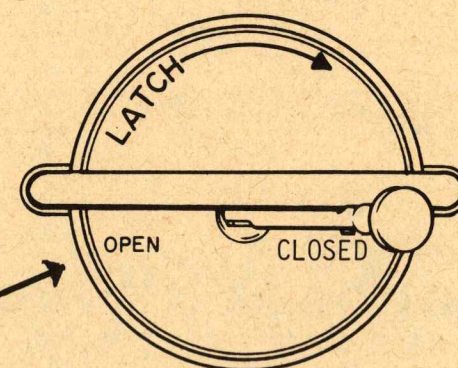
100 SHOWN (AXIAL)
118 SAME (RADIAL)



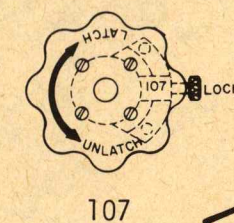
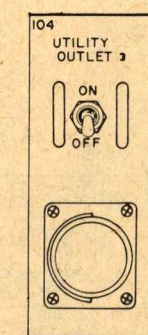
120, 135 Not Shown



103 (106 STOWAGE LOCATION)

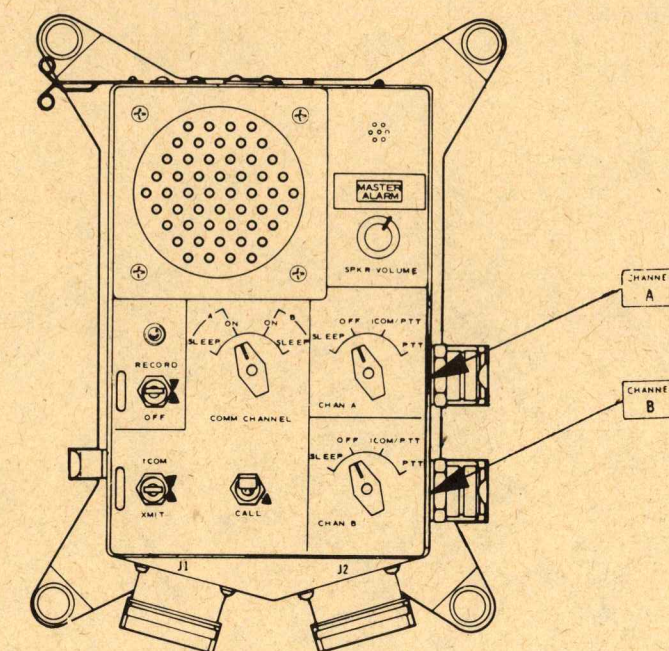


104 SHOWN
112 SAME EXC UTIL OUT 1
134 SAME EXC UTIL OUT 2
140 SAME EXC UTIL OUT 4

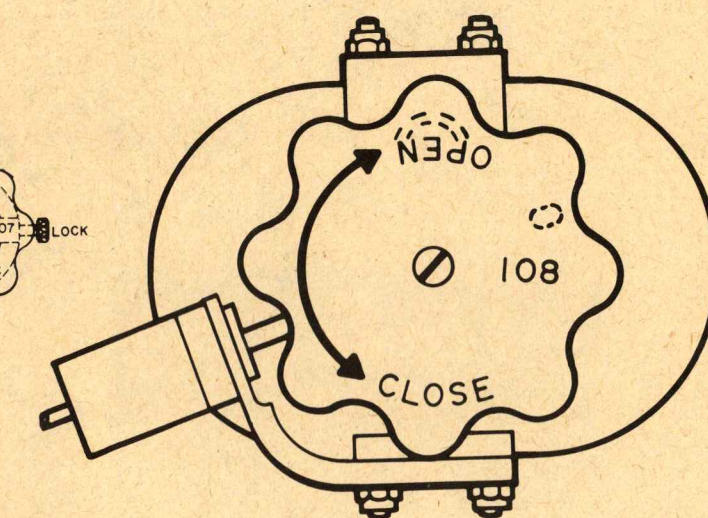


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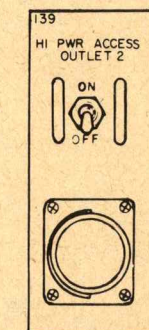
▲ SYMBOL DENOTES MOMENTARY SWITCH POSITION
AND DOES NOT APPEAR ON PANEL



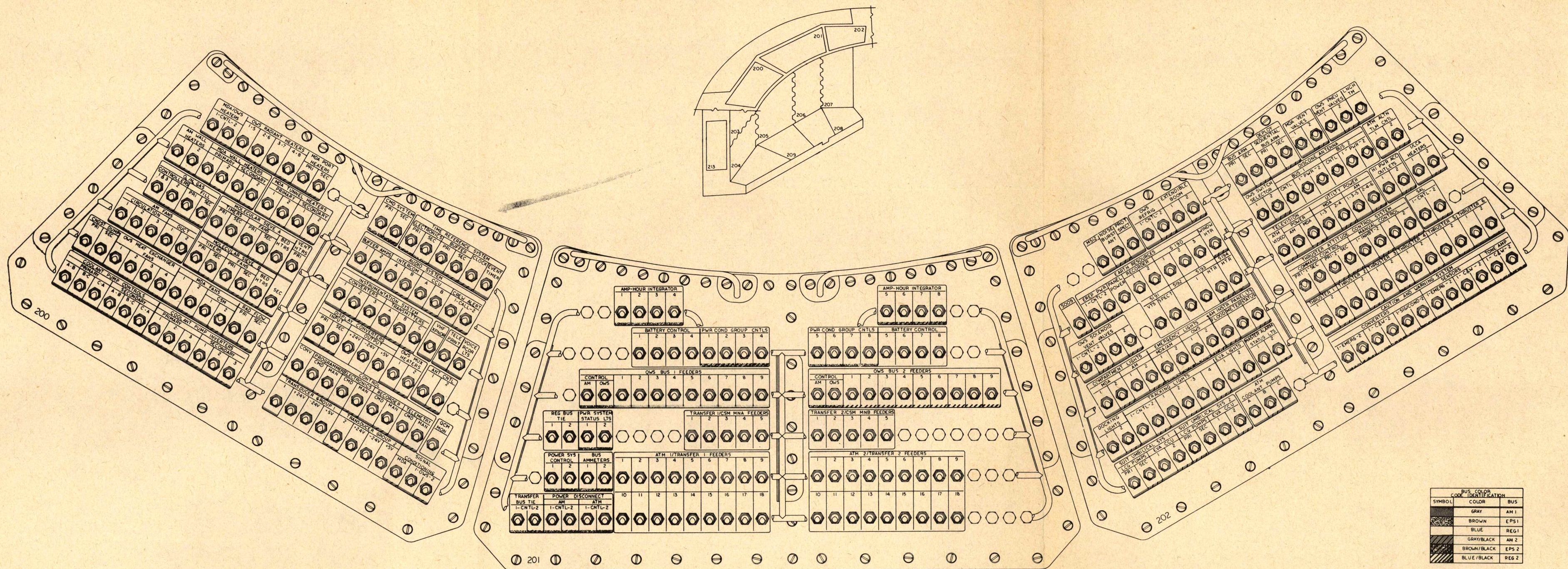
102, 116, 131

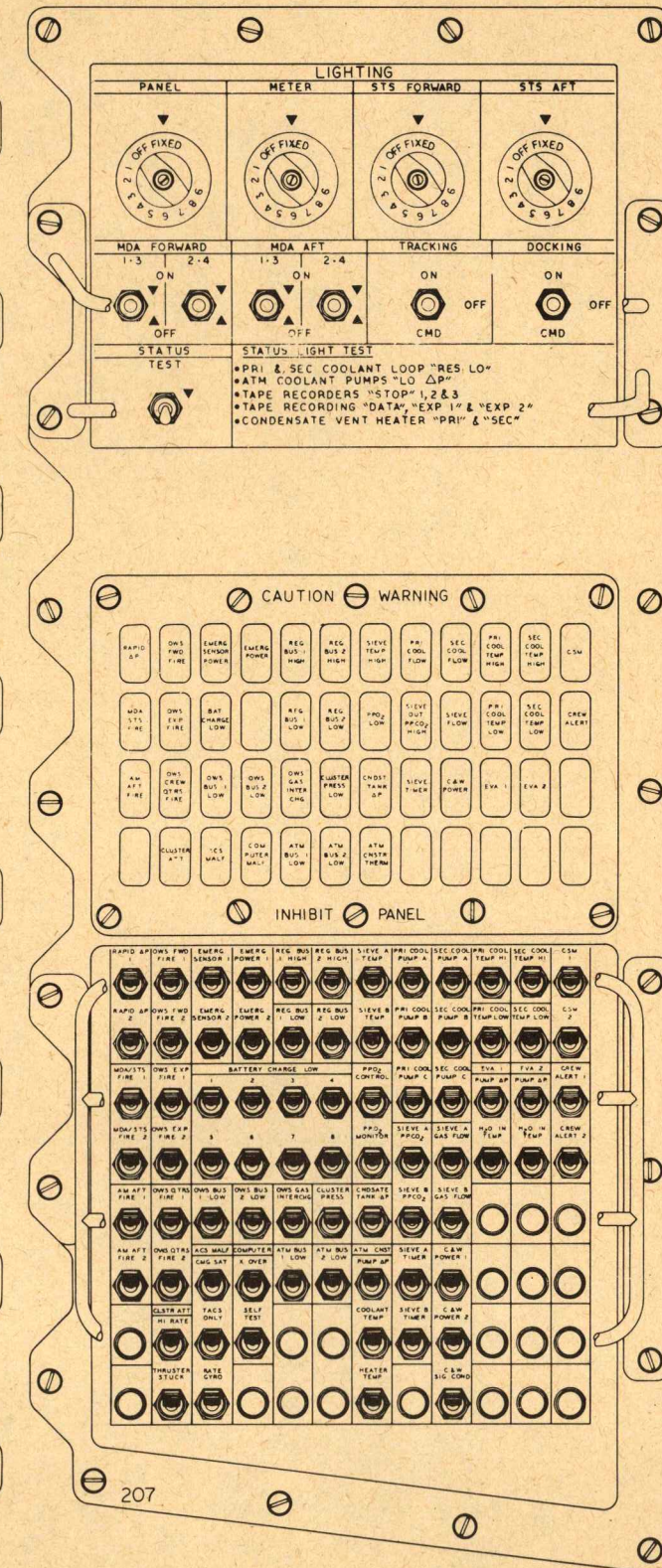
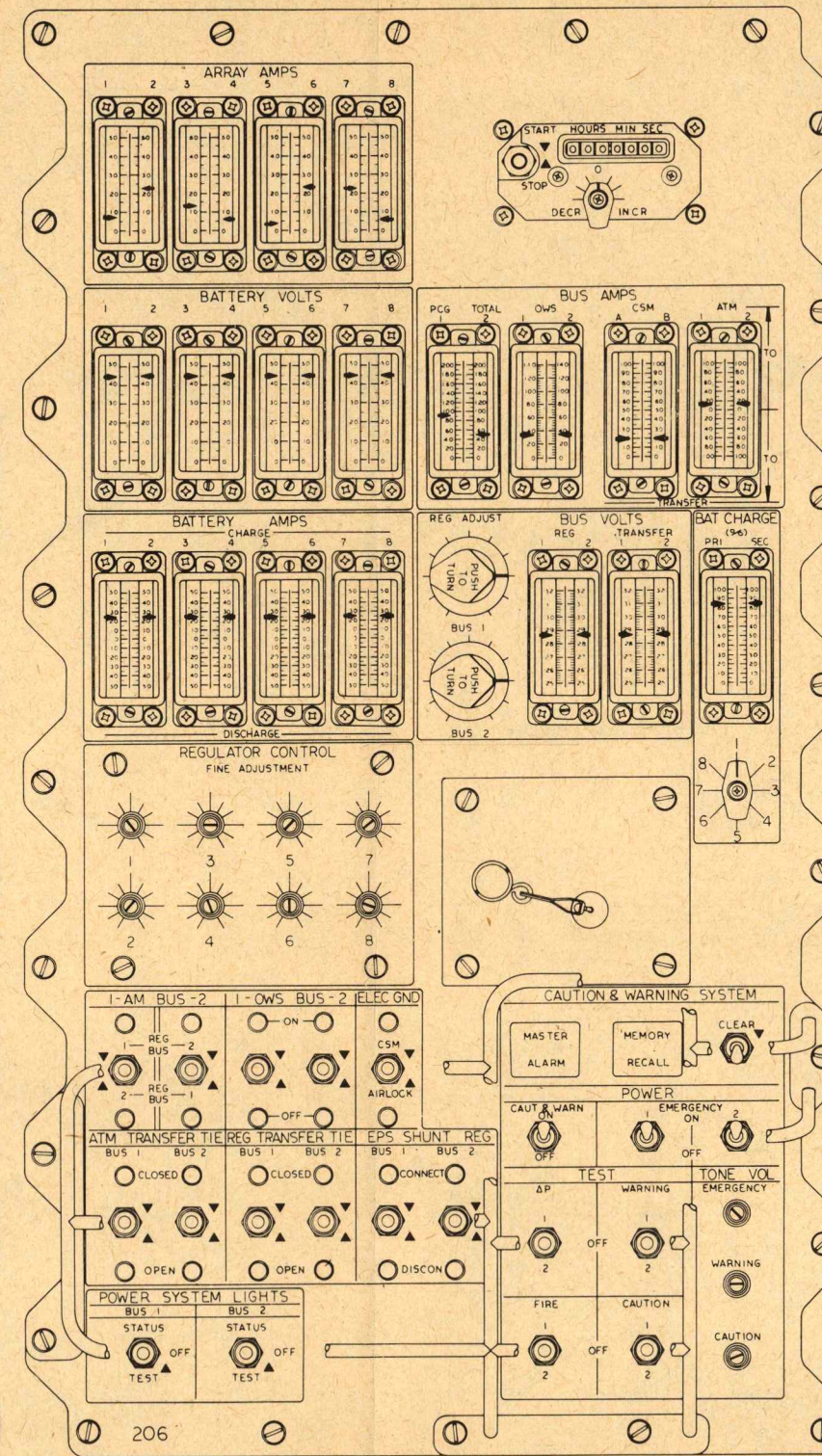
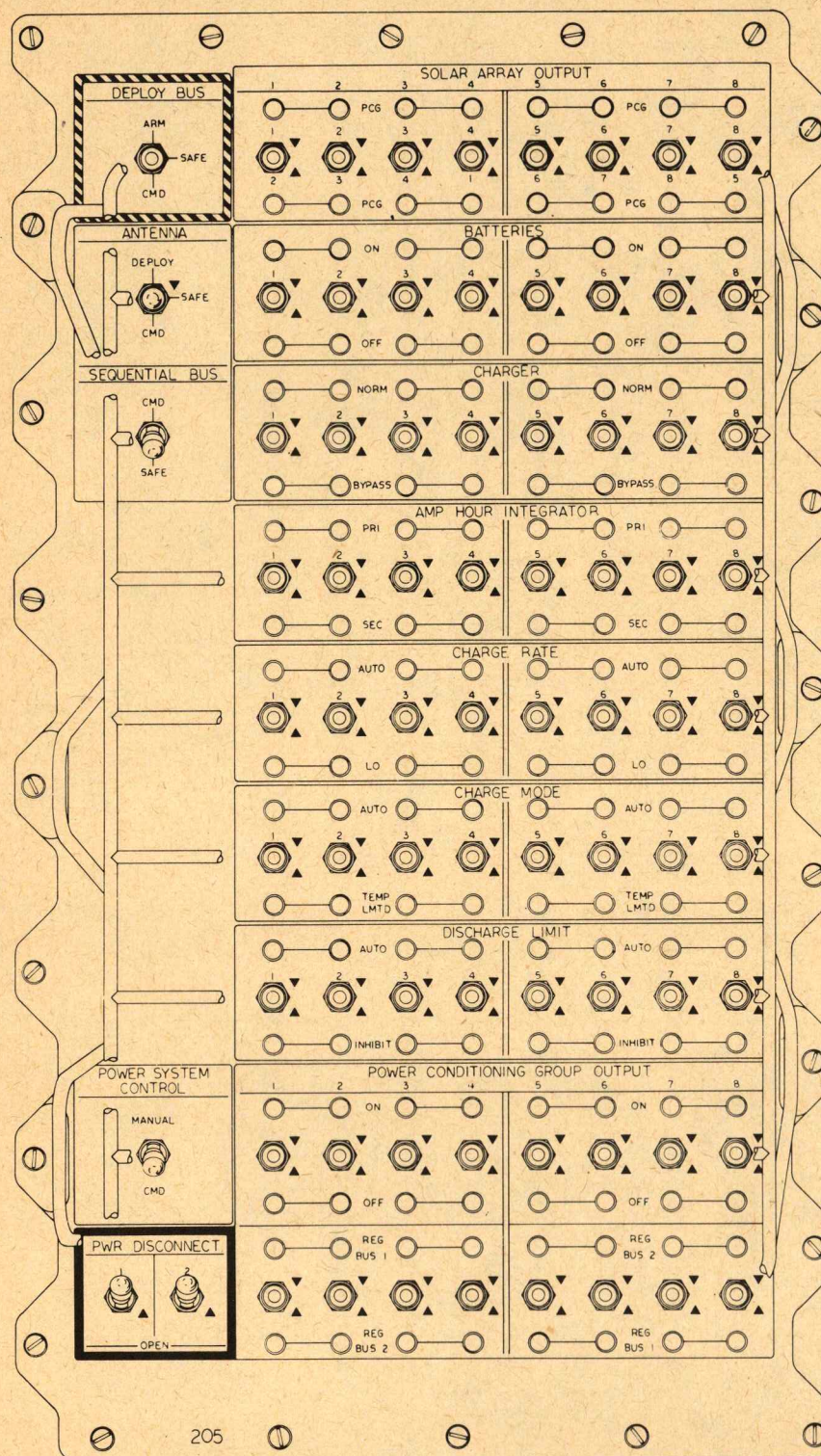
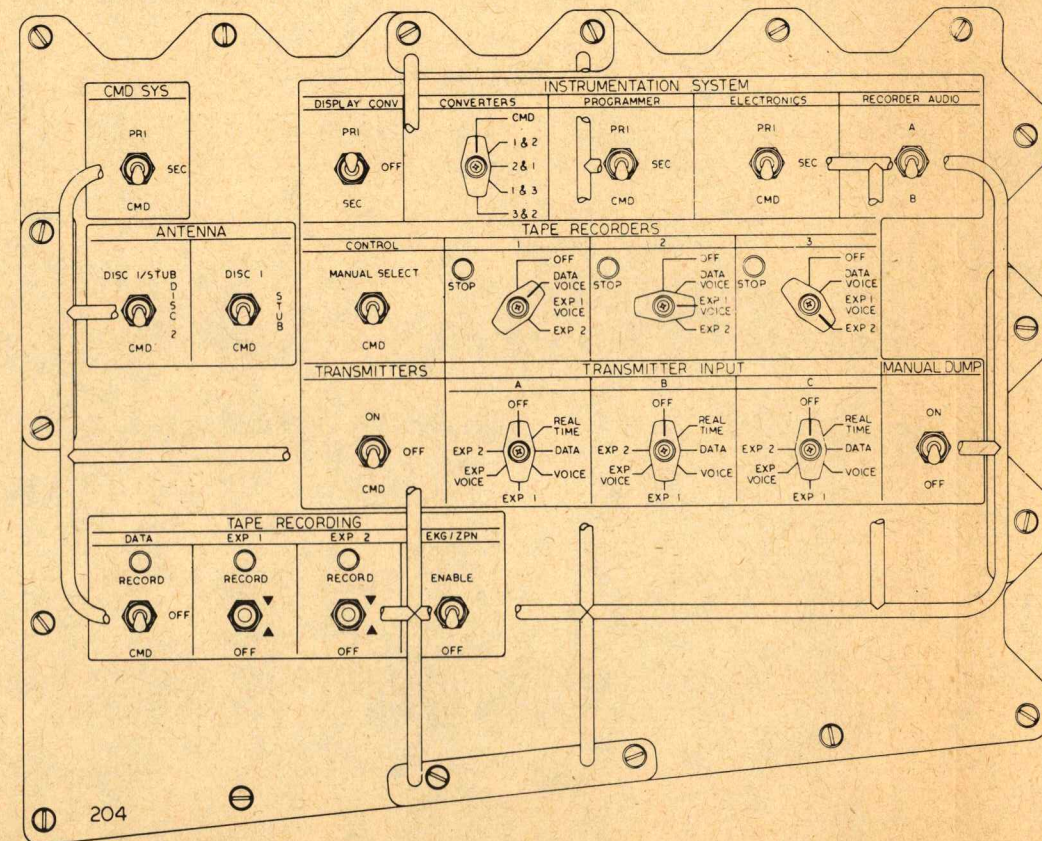
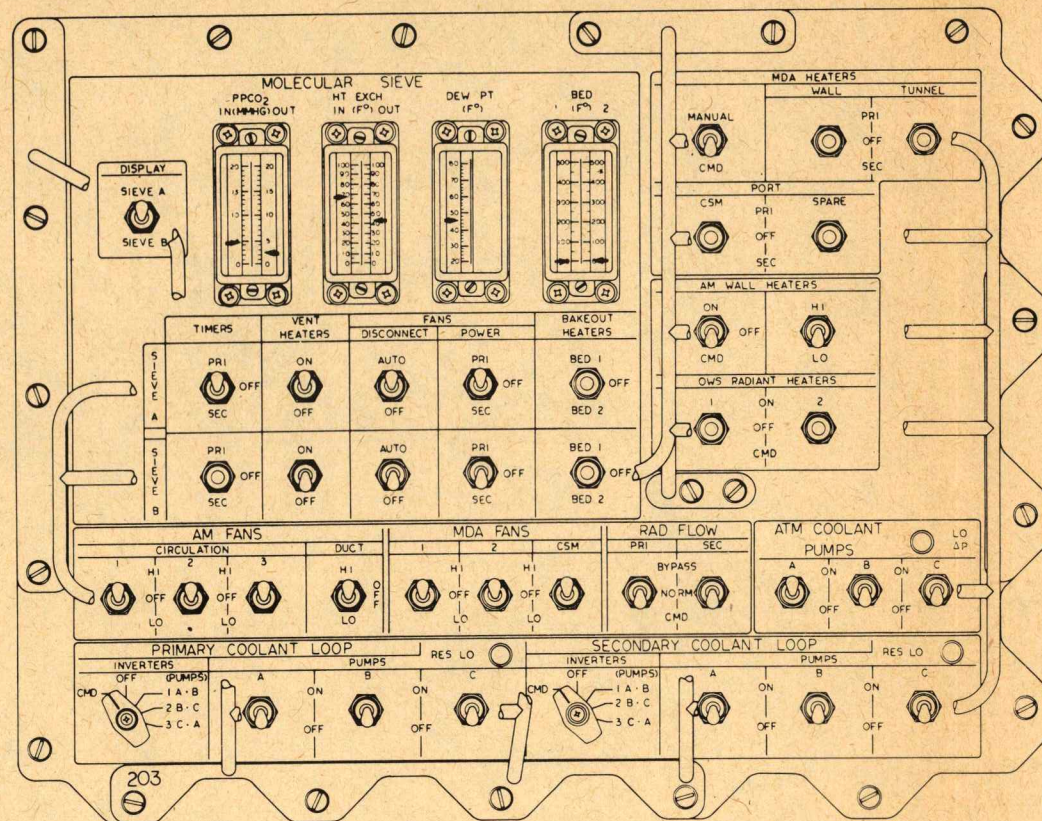
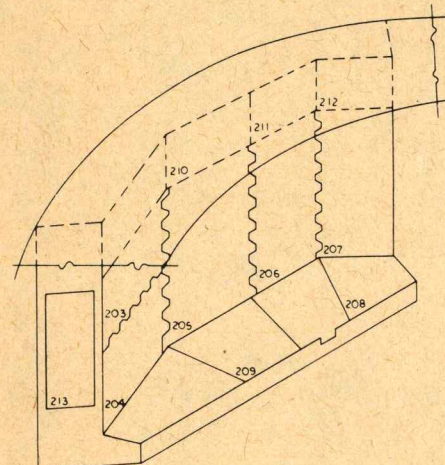


108

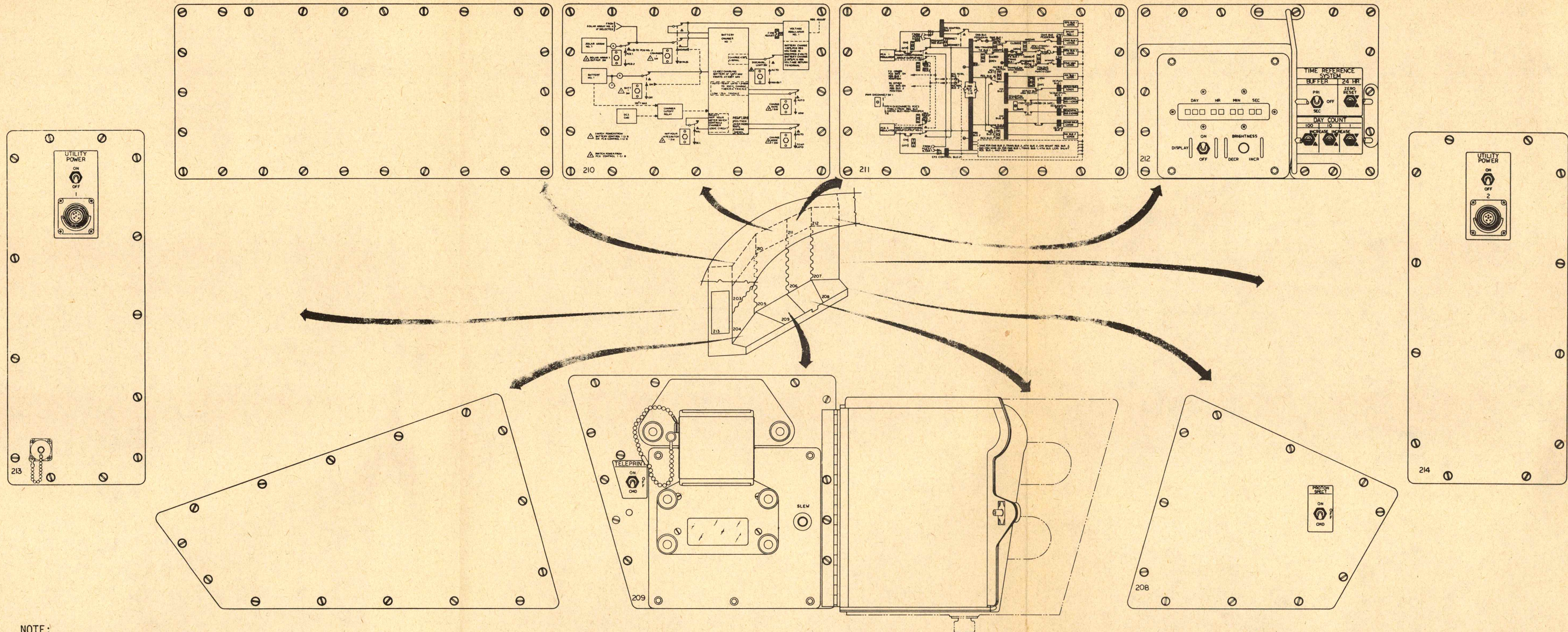


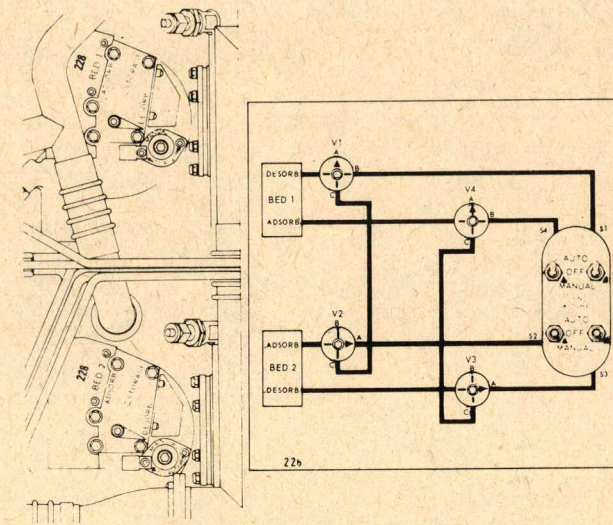
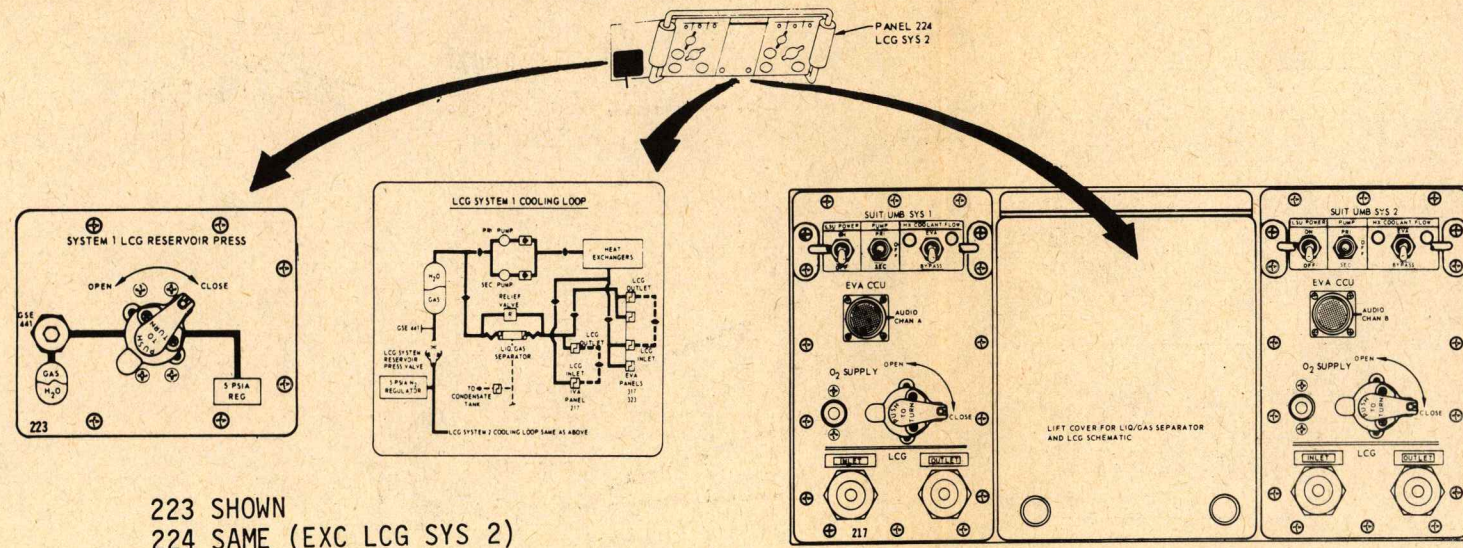
139 SHOWN
115 SAME EXC HI
PWR ACC OUT 1





NOTE:
 ▲ SYMBOL DENOTES MOMENTARY SWITCH POSITION AND DOES NOT APPEAR ON PANEL

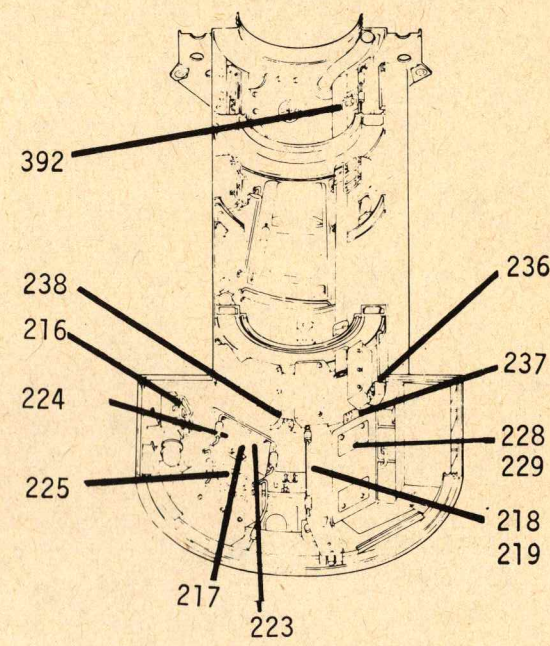
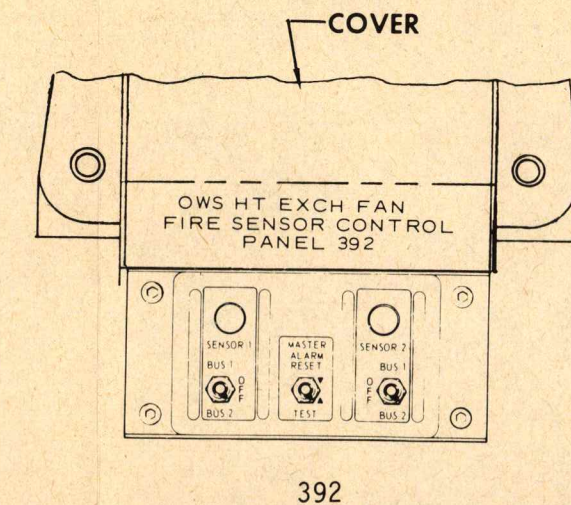
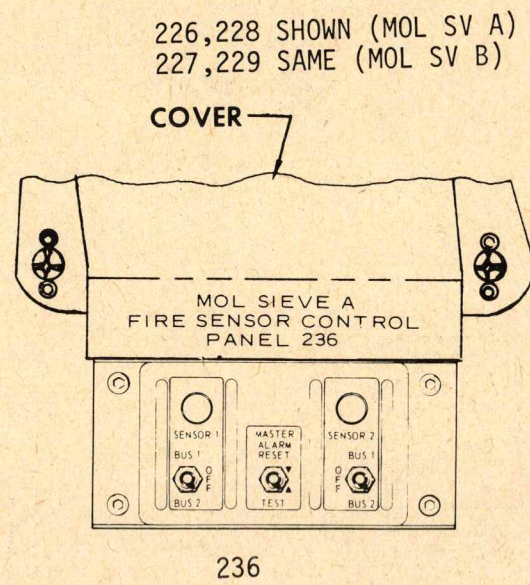
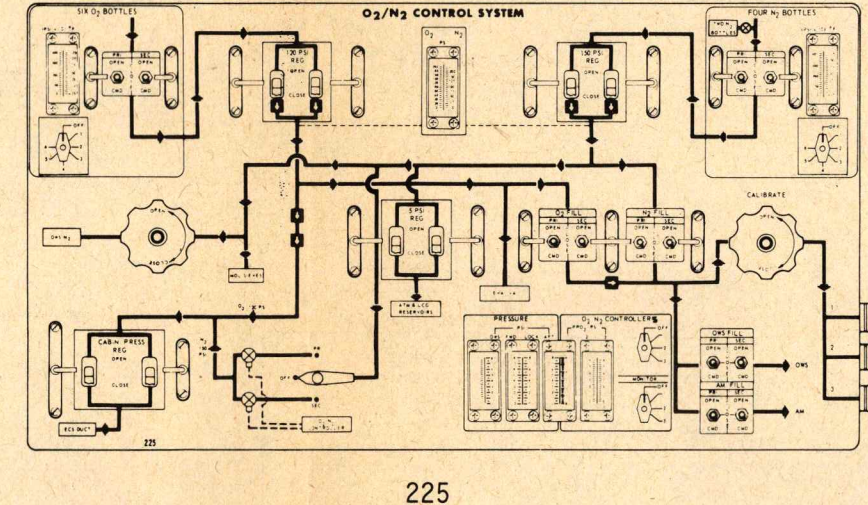
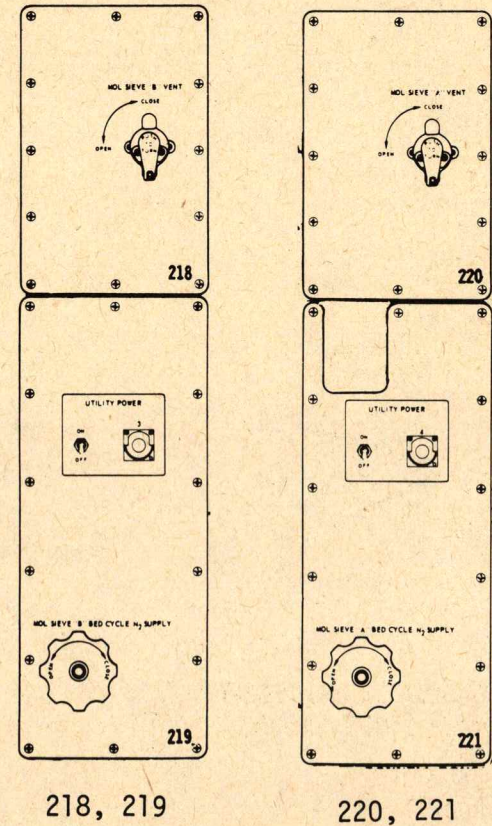
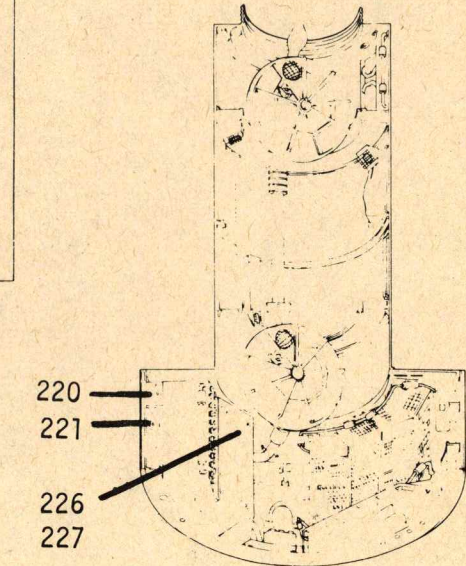




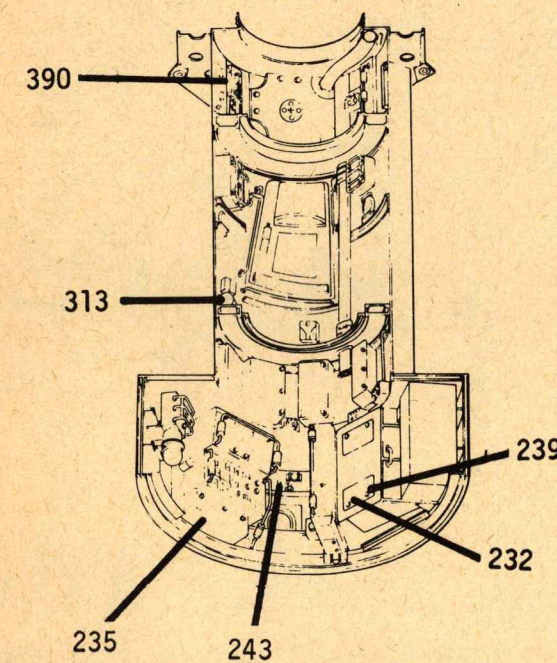
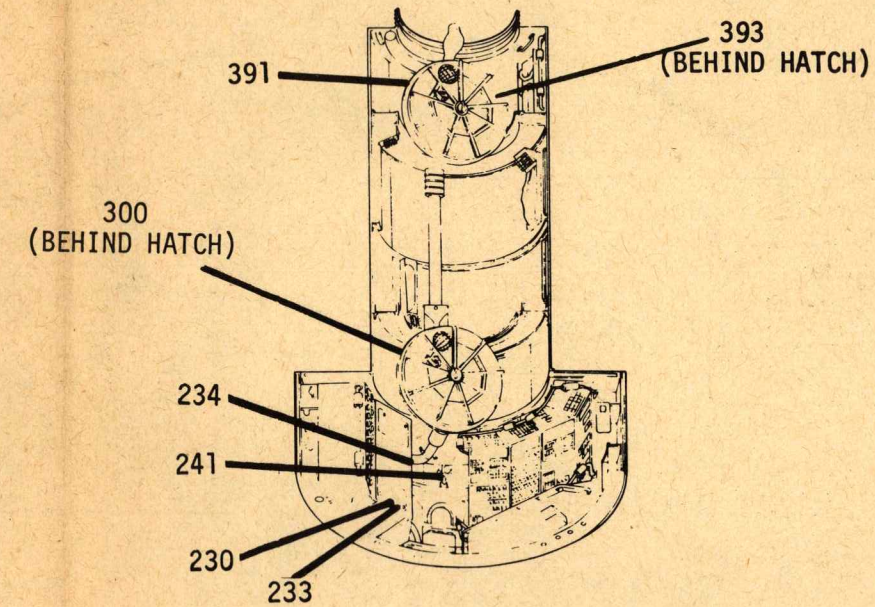
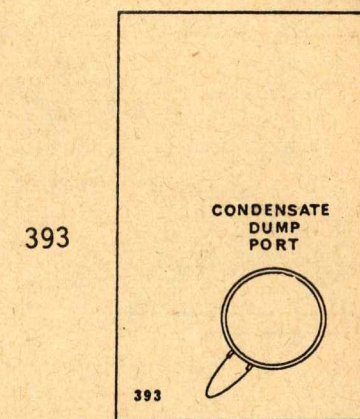
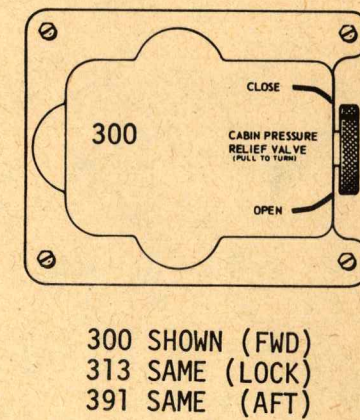
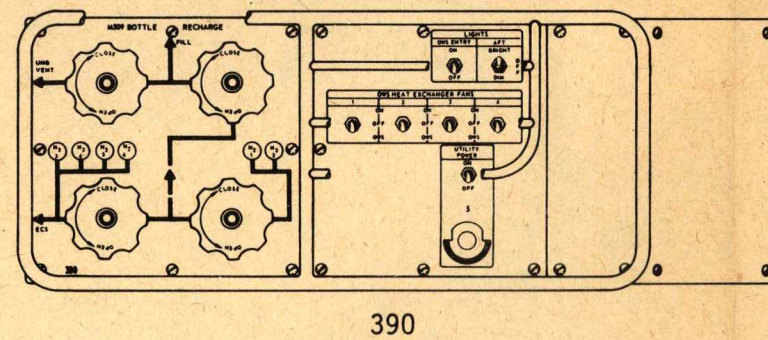
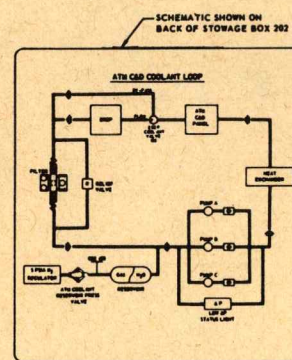
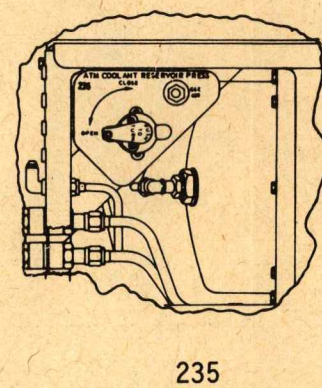
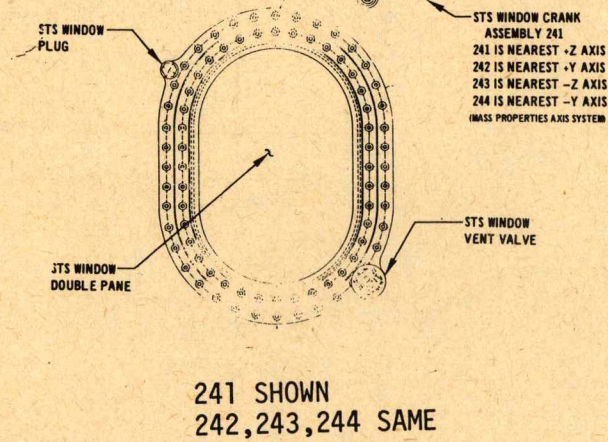
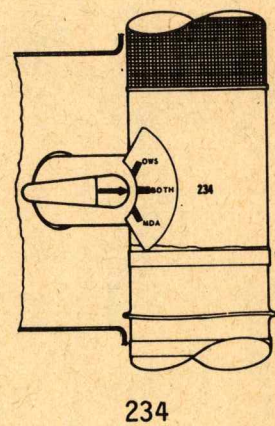
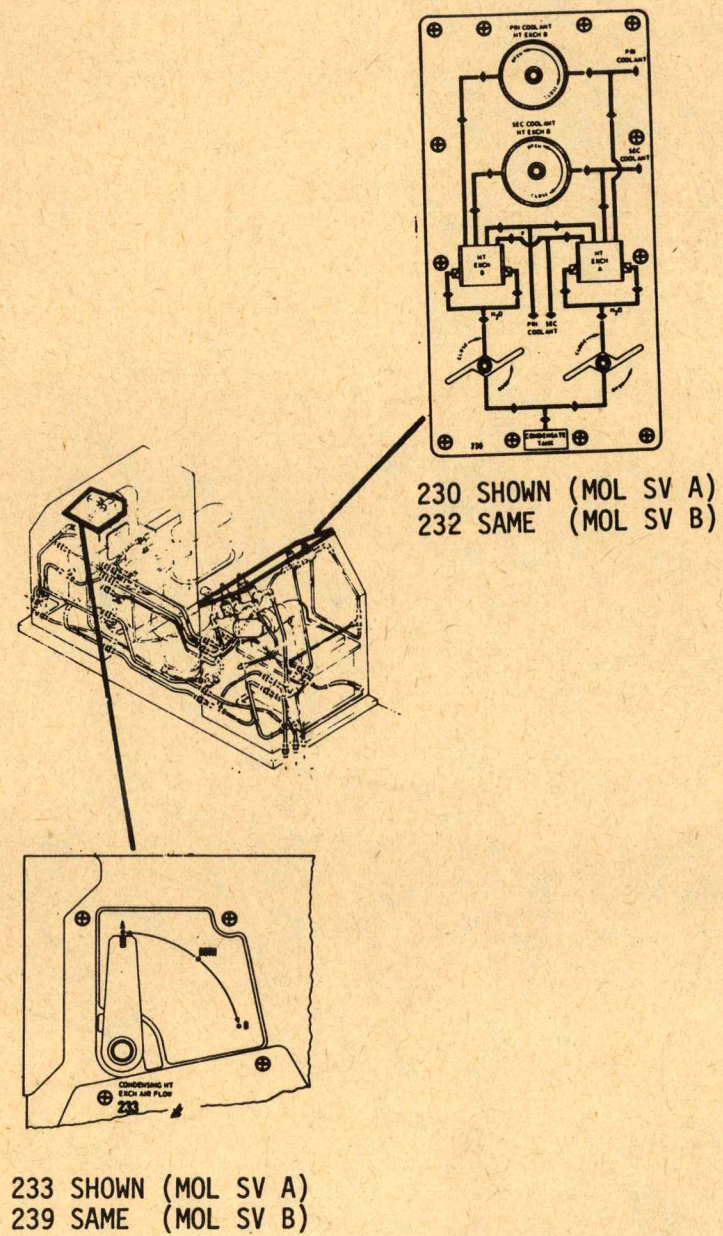
MOL SIEVE OPERATING MODES

OPERATIONAL MODE *	V1	V2	V3	V4	S1	S2	S3	S4
NORMAL	A	A	A	A	AUTO	OFF	OFF	AUTO
ALT. 1	B	B	B	B	OFF	AUTO	AUTO	OFF
ALT. 2	A	A	B	B	AUTO	OFF	AUTO	OFF
ALT. 3	B	B	A	A	OFF	AUTO	AUTO	OFF
NORMAL DESORB (BOTH BEDS)	MANUALLY POSITION "BED 1" & "BED 2" GAS SELECTOR VALVES TO "DESORB" WITH "T" HANDLE.				OFF	OFF	OFF	OFF
ALT. DESORB (BOTH BEDS)	C	C	C	C	MANUAL	OFF	MANUAL	OFF
BAKEOUT - BED 1	MANUALLY POSITION "BED 1" GAS SELECTOR VALVE TO "DESORB" WITH "T" HANDLE.				OFF	AUTO	AUTO	OFF
NORMAL - BED 2	C	C	C	C	OFF	AUTO	AUTO	OFF
BAKE - BED 2	MANUALLY POSITION "BED 2" GAS SELECTOR VALVE TO "DESORB" WITH "T" HANDLE.				OFF	OFF	OFF	AUTO
NORMAL - BED 1	C	C	C	C	AUTO	OFF	OFF	AUTO

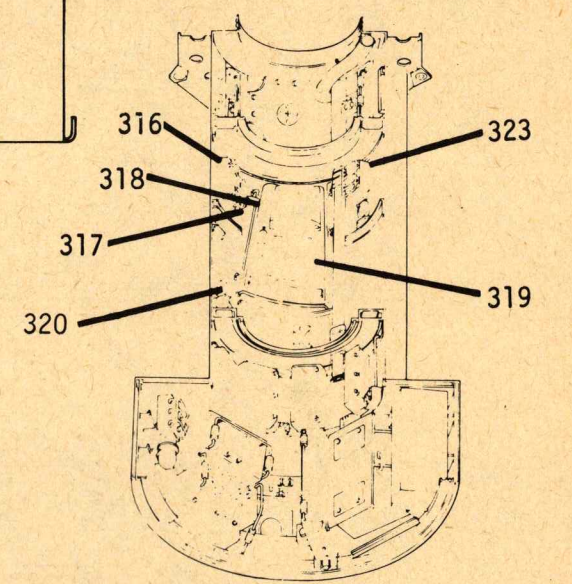
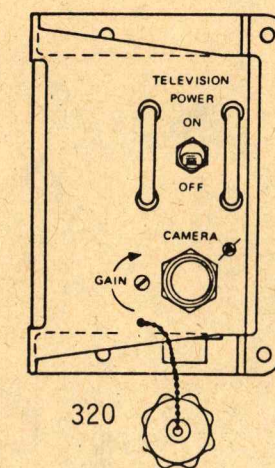
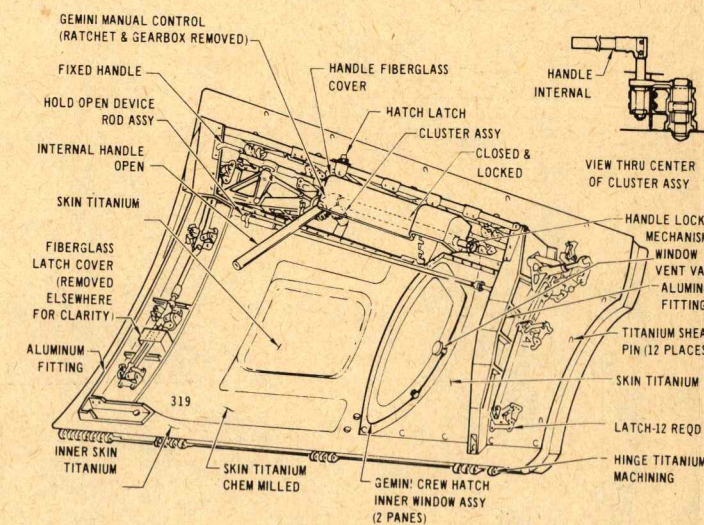
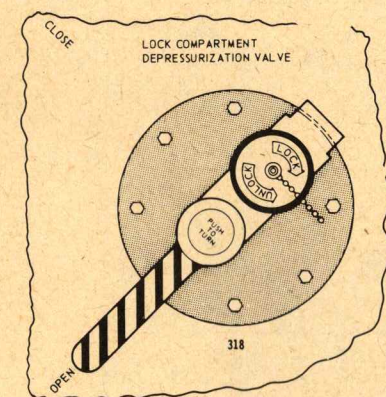
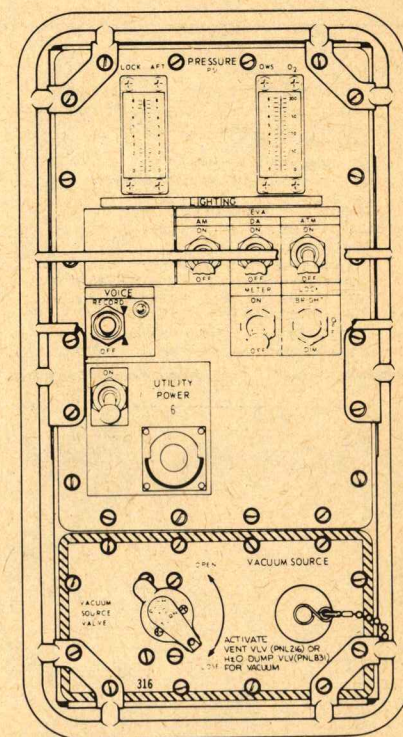
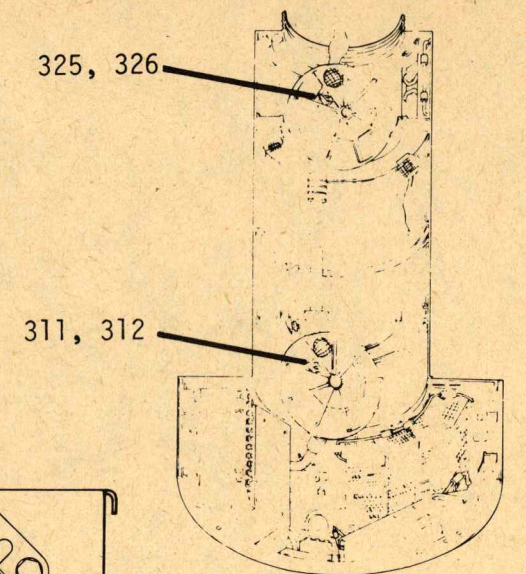
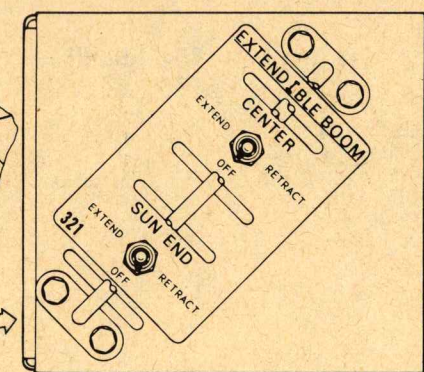
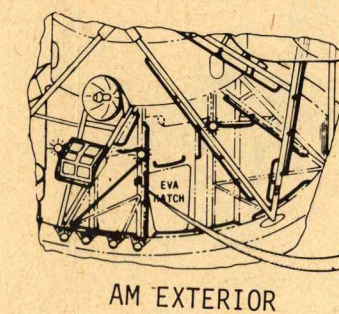
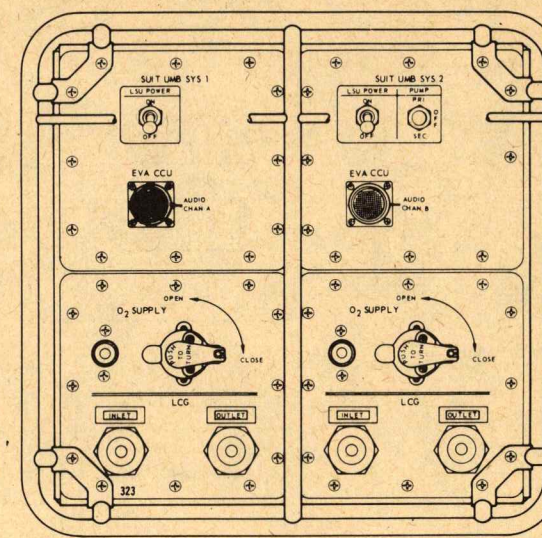
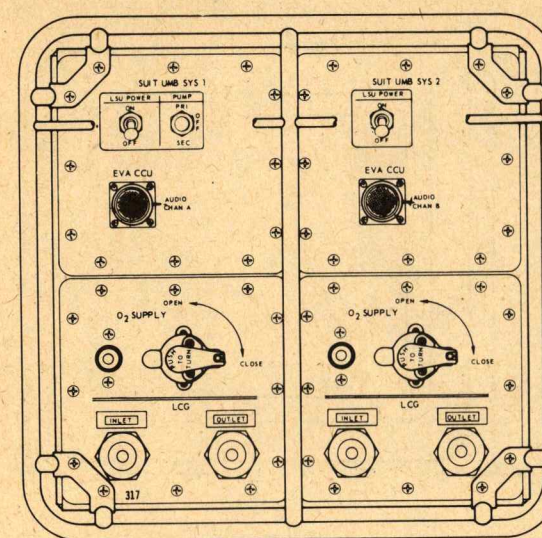
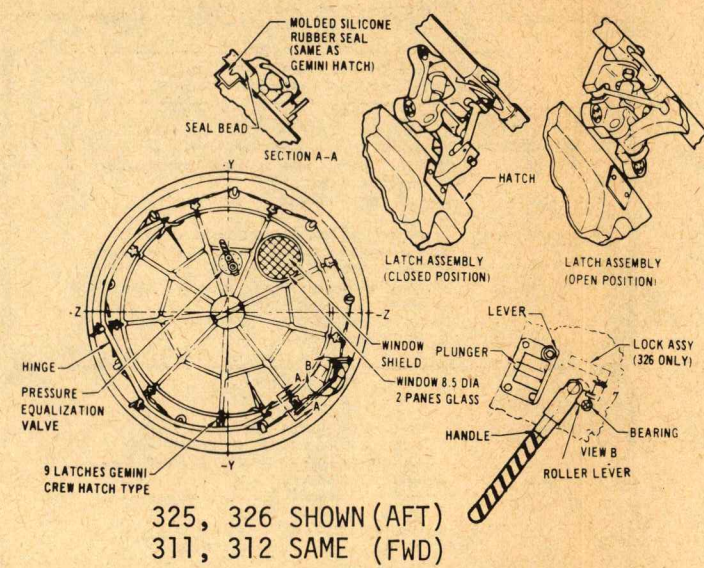
*PUT ALL SWITCHES IN "OFF" BEFORE SETTING UP VALVE POSITIONS.



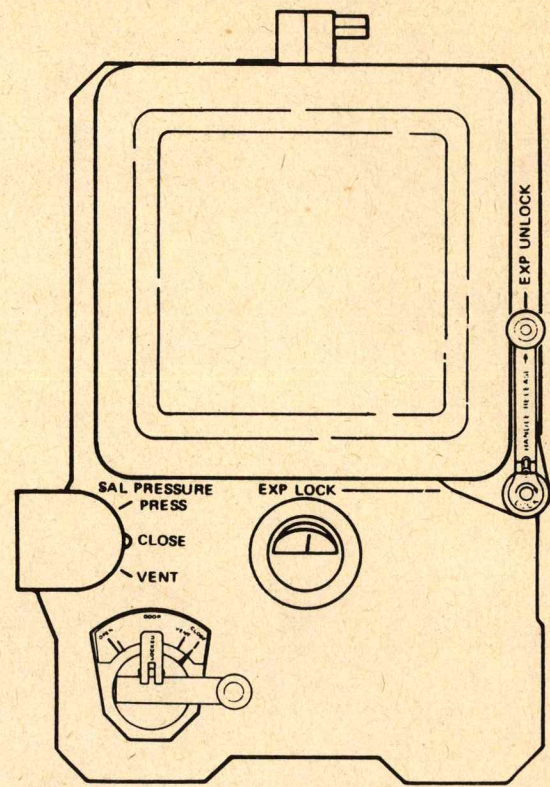
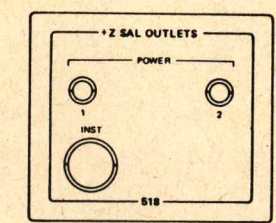
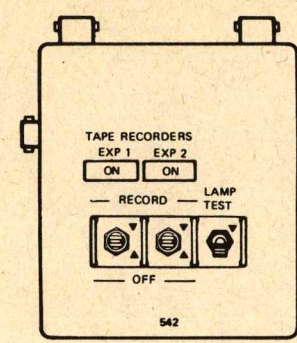
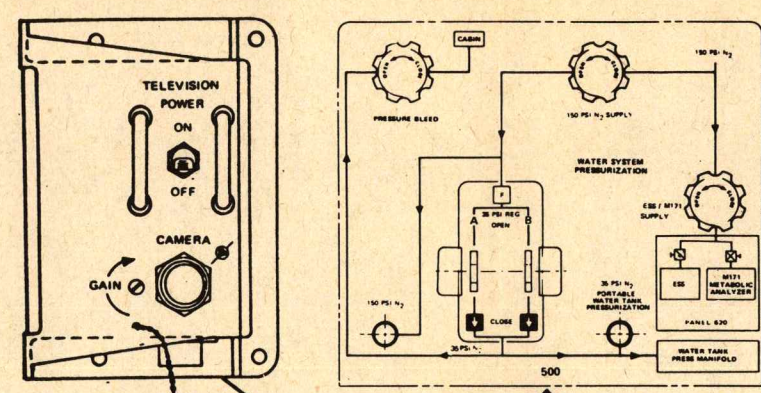
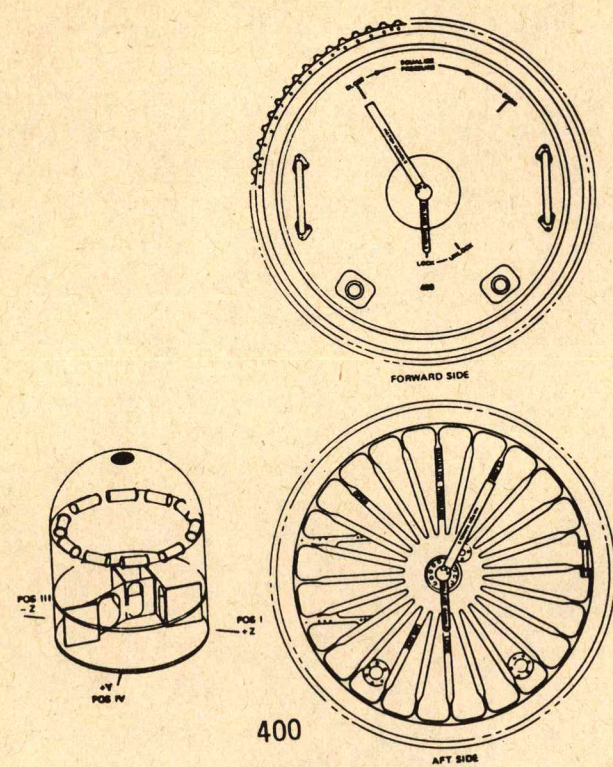
NOTE:
▲SYMBOL DENOTES MOMENTARY SWITCH POSITION AND DOES NOT APPEAR ON PANEL



242, 244 (LOCATED ON CUTAWAY AXES) NOT SHOWN



NOTE:
▲ SYMBOL DENOTES MOMENTARY SWITCH POSITION AND DOES NOT APPEAR ON PANEL



SCIENTIFIC AIRLOCK

FOR EXPERIMENT/SAL OPERATIONS, REFER TO INDIVIDUAL EXPERIMENT PROCEDURES

WINDOW

INSTALLATION:

1. DOOR - CLOSE AND LOCKED (verify)
2. EXP LOCKING HDL - EXP UNLOCK (verify)
3. WINDOW - INSTALL
4. EXP LOCKING HDL - EXP LOCK

REMOVAL:

1. DOOR - CLOSE AND LOCKED (verify)
2. SAL PRESS VALVE - PRESS (verify ~ 6 psia)
3. SAL PRESS VALVE - CLOSE (wait one minute - verify no pressure decay to ensure door seal integrity)
4. EXP LOCKING HDL - EXP UNLOCK
5. WINDOW - remove

DOOR

OPENING:

1. WINDOW - INSTALLED (verify)
2. EXP LOCKING HDL - EXP LOCK (verify)
3. SAL PRESS VALVE - VENT (verify <0.5 psia)
4. SAL PRESS VALVE - CLOSE (wait one minute - verify no pressure rise to ensure window seal integrity)
5. SAL PRESS VALVE - VENT
6. DOOR - UNLOCKED AND OPEN

CLOSING:

1. DOOR - CLEAR OF OBSTRUCTION (verify)
2. DOOR - CLOSE AND LOCKED
3. SAL PRESS VALVE - PRESS (verify ~ 6.0 psia)
4. SAL PRESS VALVE - CLOSE (wait one minute - verify no pressure decay to ensure door seal integrity)

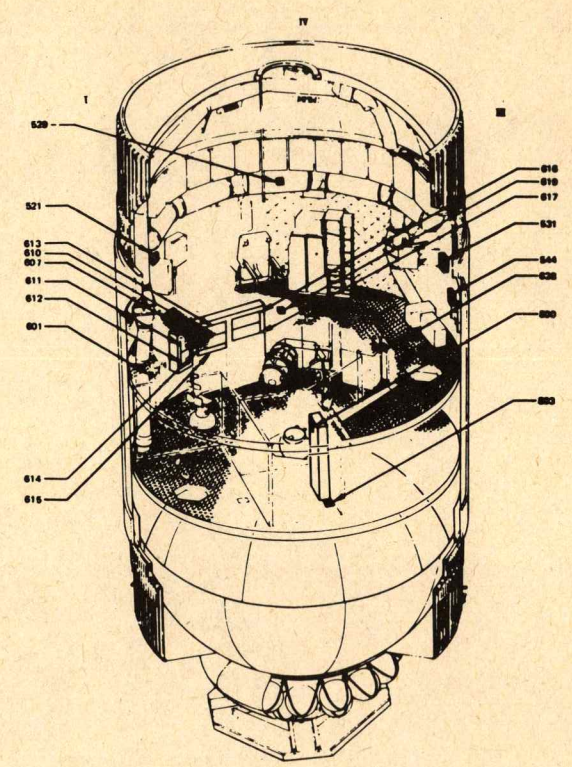
VACUUM HOSE

UTILIZATION:

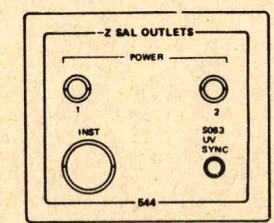
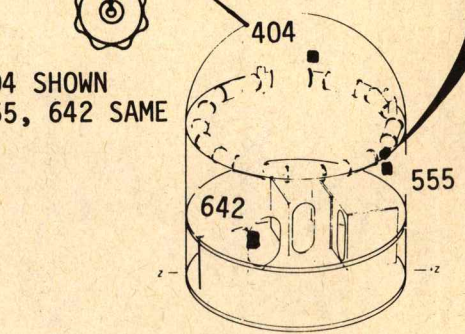
1. WINDOW/EXPERIMENT - installed (verify)
2. SAL PRESS VALVE - VENT (verify <0.5 psia)
3. DOOR - UNLOCKED AND VENT
4. VACUUM HOSE
 - a. connect to experiment
 - b. connect to SAL VACUUM SOURCE

REMOVAL:

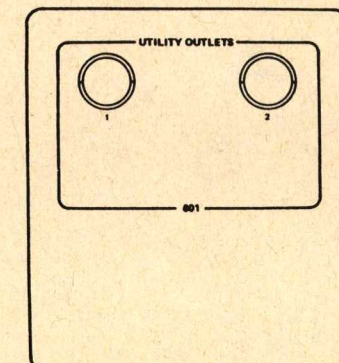
1. DOOR - CLOSE AND LOCKED
2. SAL PRESS VALVE - CLOSE
3. VACUUM HOSE
 - a. disconnect from experiment
 - b. disconnect from SAL VACUUM SOURCE
4. SAL PRESS VALVE - PRESS (verify ~ 6 psia)
5. SAL PRESS VALVE - CLOSE (wait one minute - verify no pressure decay to ensure door seal integrity)



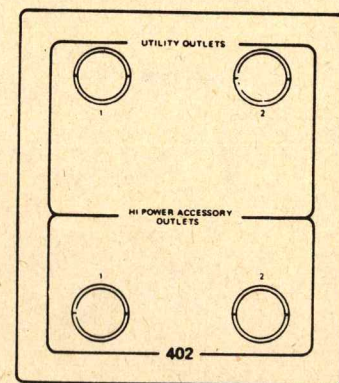
404 SHOWN
555, 642 SAME



517 SHOWN 543 SAME

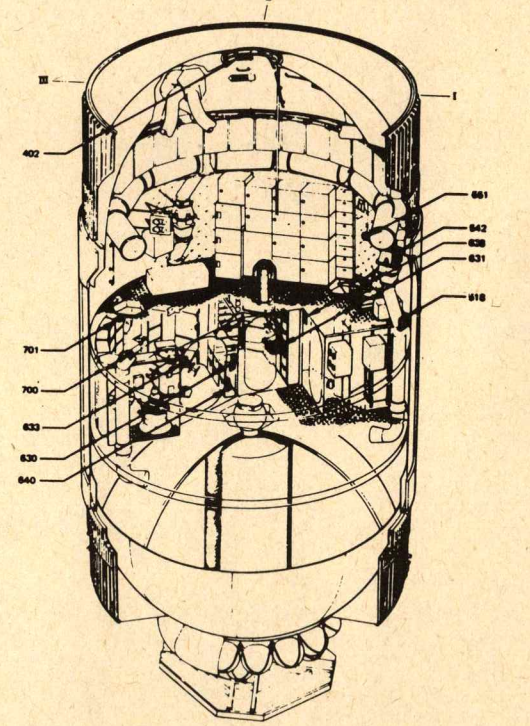
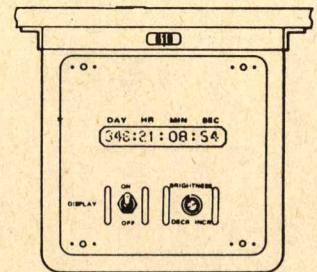
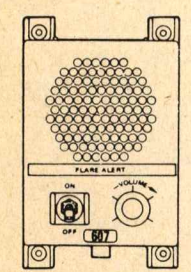
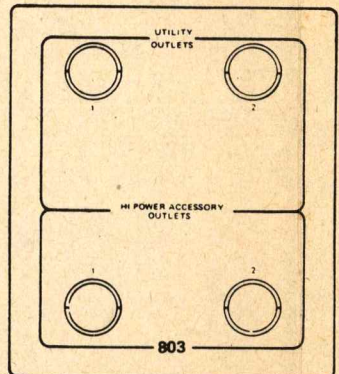


601 (628 SAME
EXC UTIL OUT 3&4)



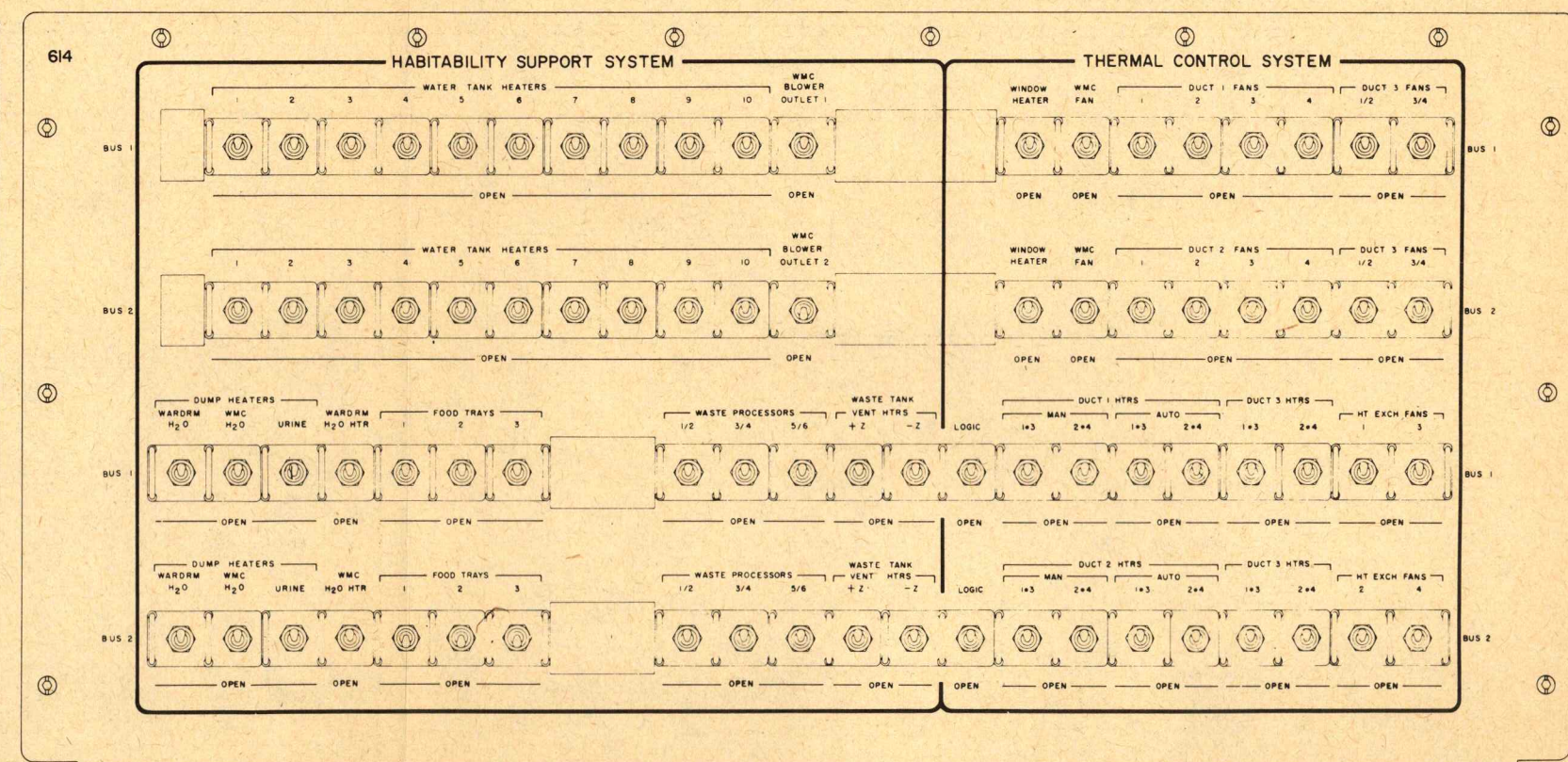
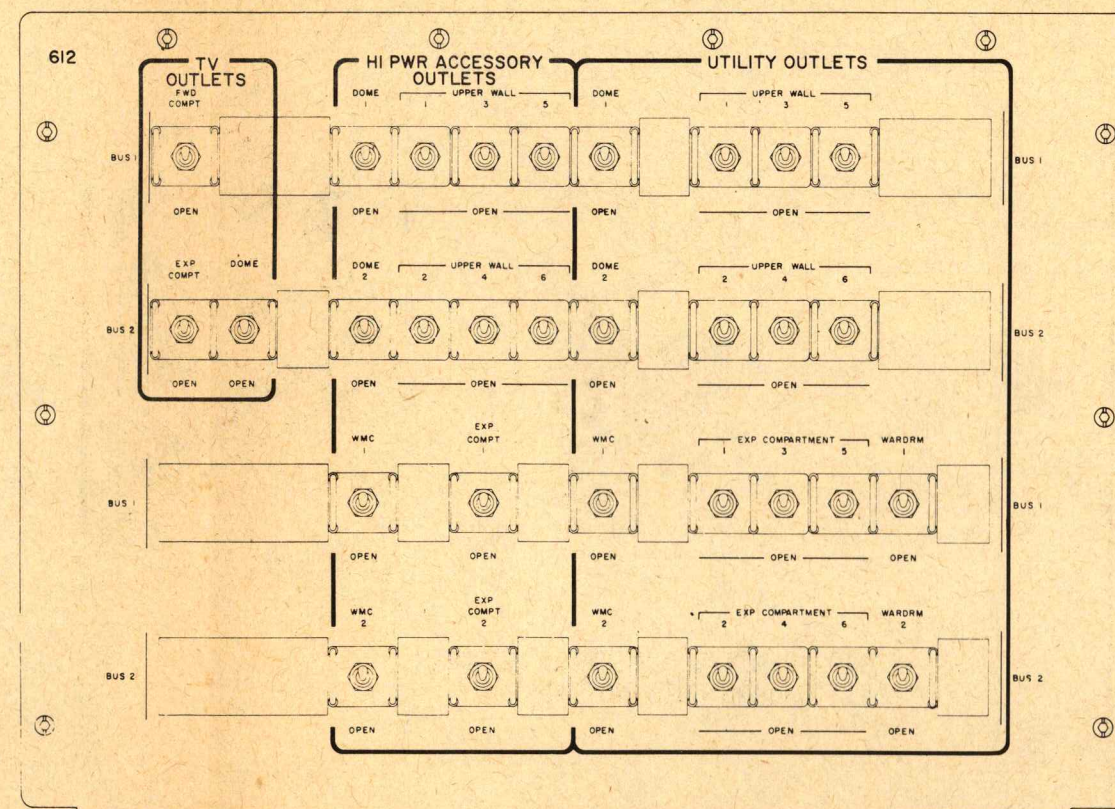
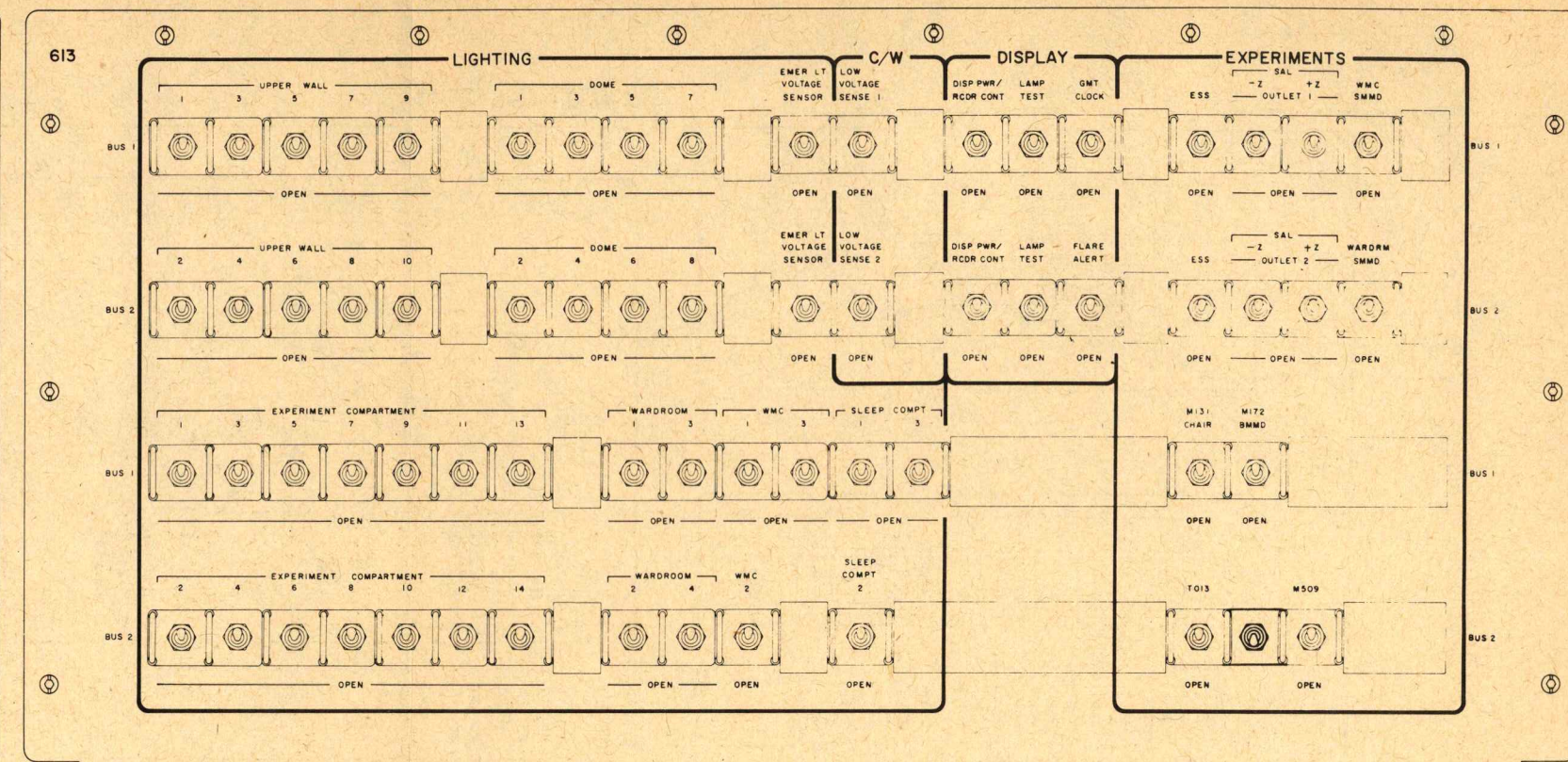
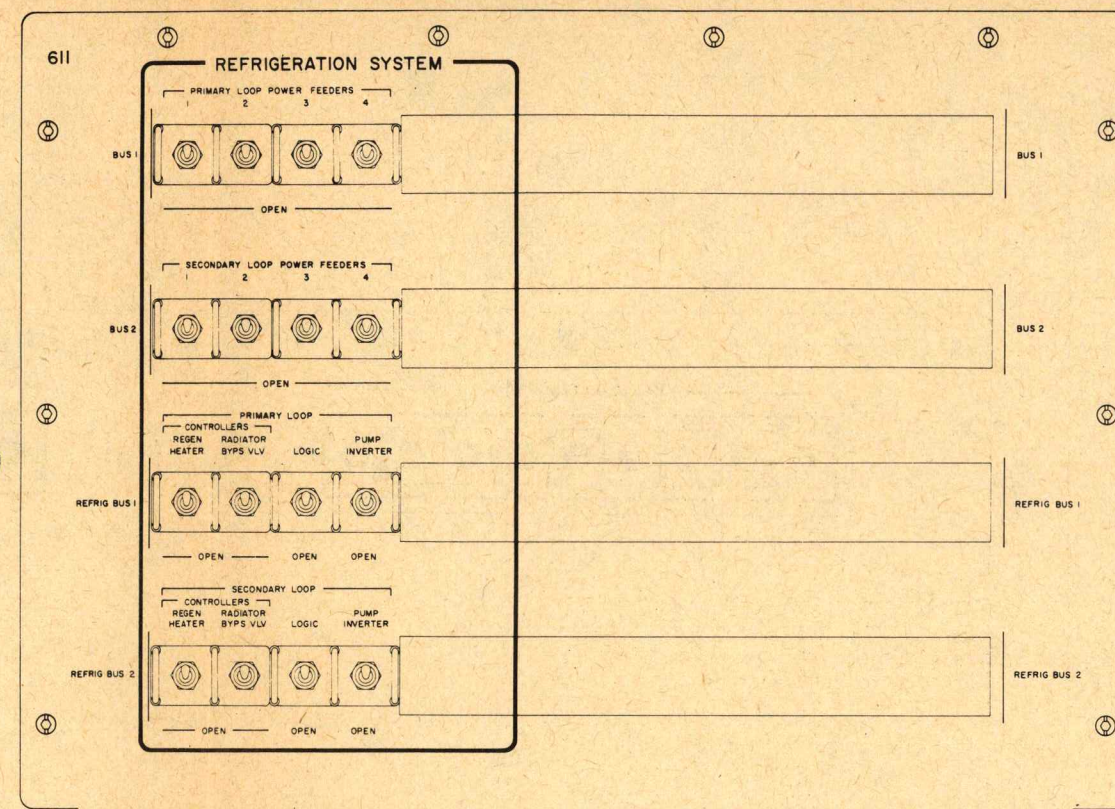
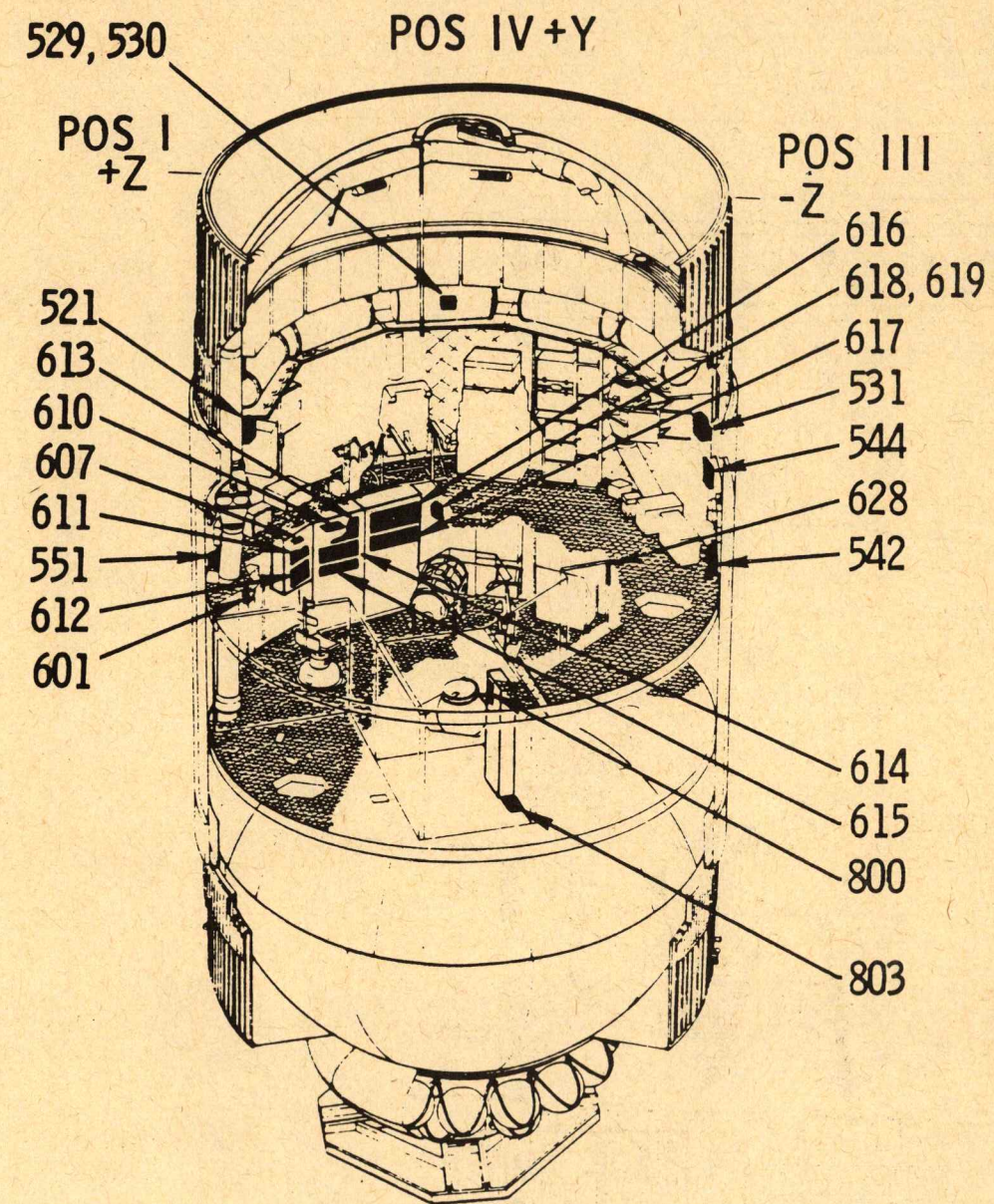
PANEL	UTILITY	HI PWR
402	1 2	1 2 (SHOWN)
521	1 2	1 2
531	3 4	3 4
561	5 6	5 6
803*	1 2	1 2 (SHOWN)

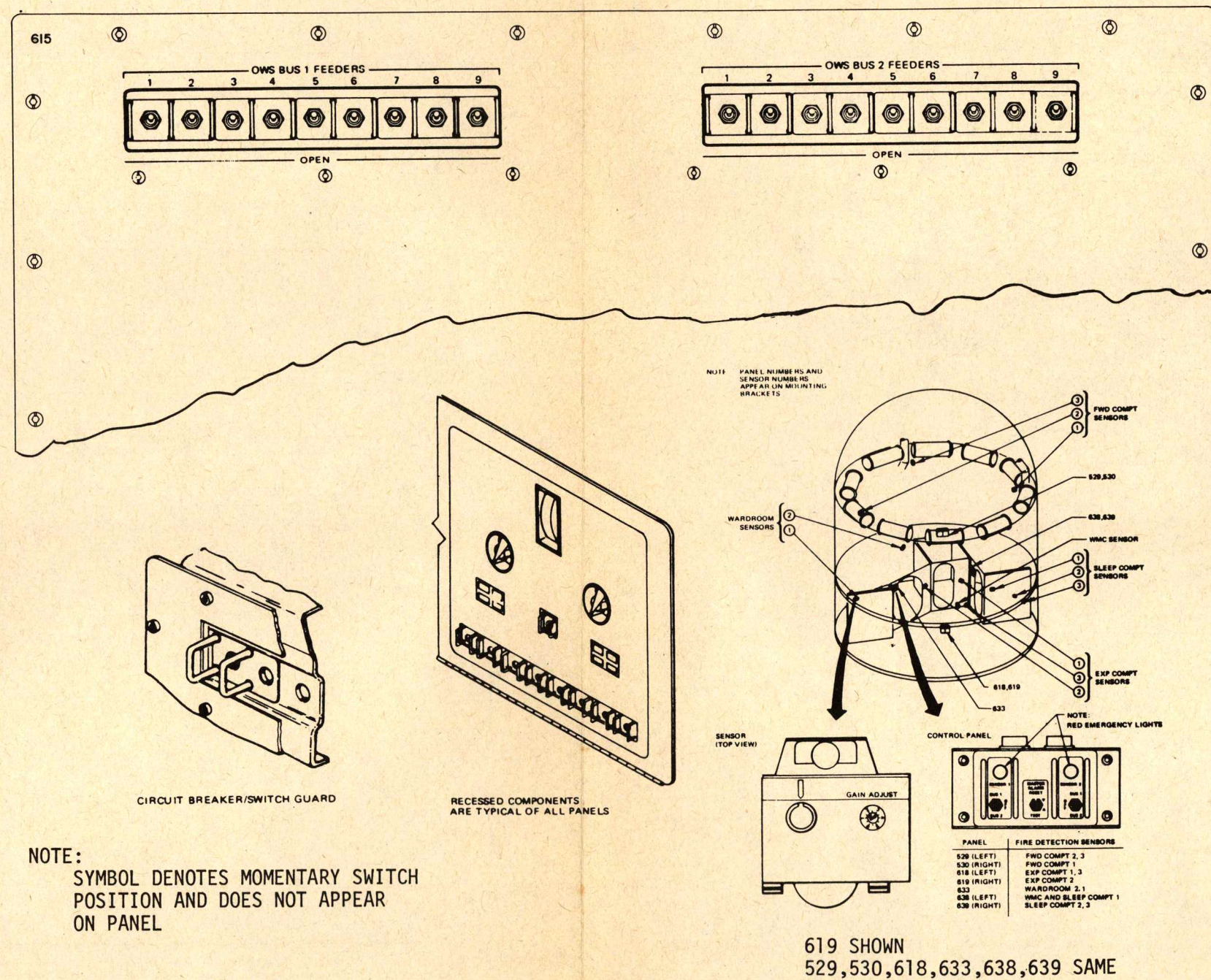
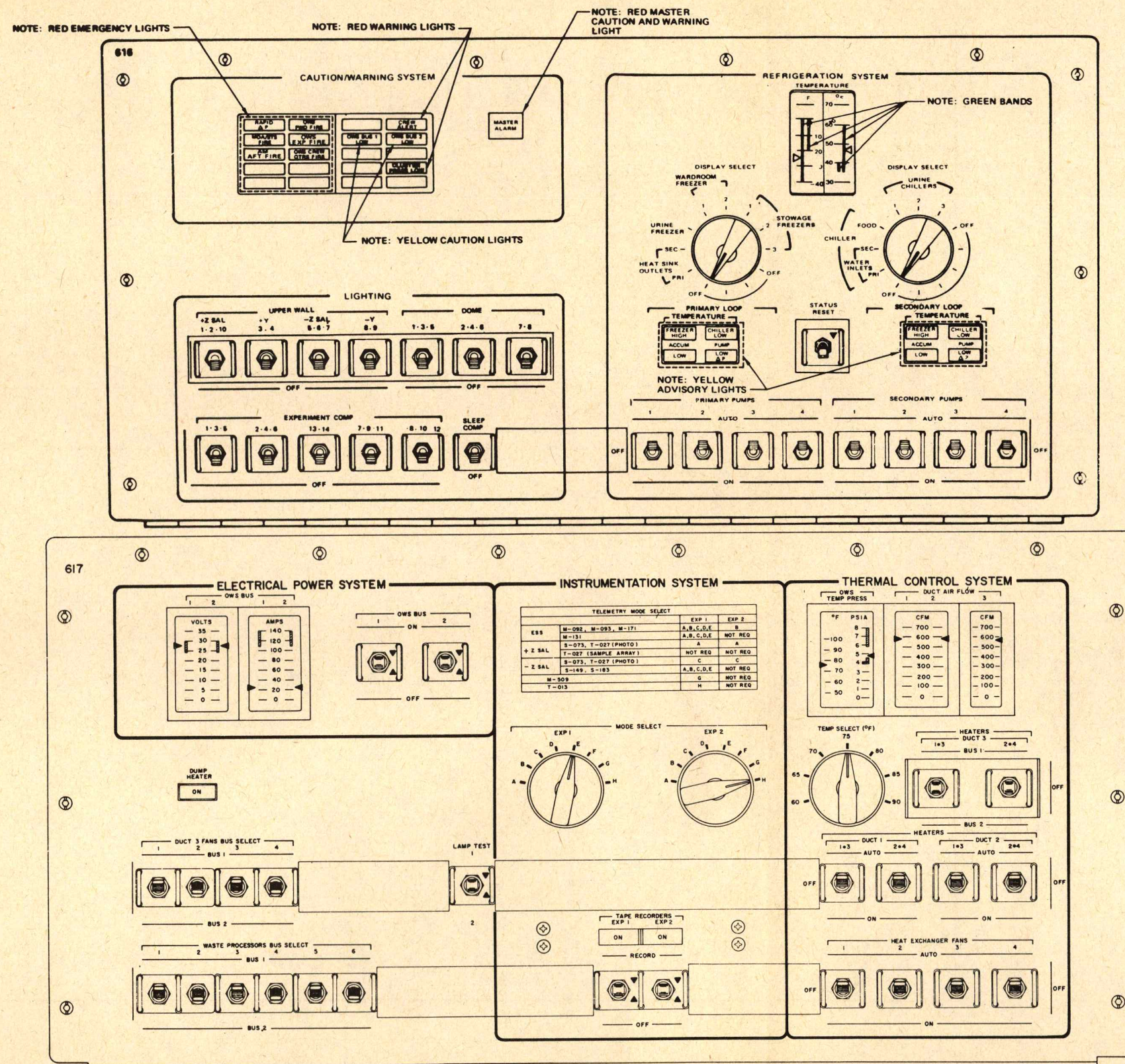
*PANEL 803 IS DIFFERENT THAN OTHER FOUR POWER OUTLETS

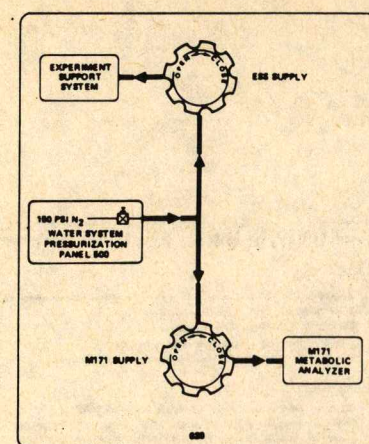


400, 517, 543 NOT SHOWN

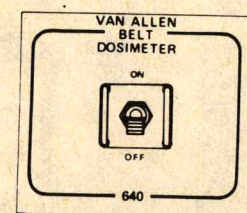
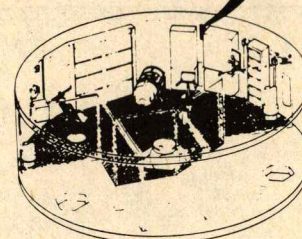
NOTE:
▲SYMBOL DENOTES MOMENTARY SWITCH POSITION AND DOES NOT APPEAR ON PANEL



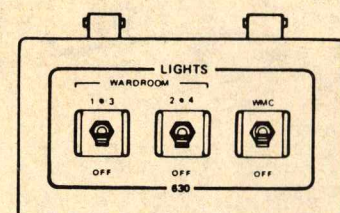




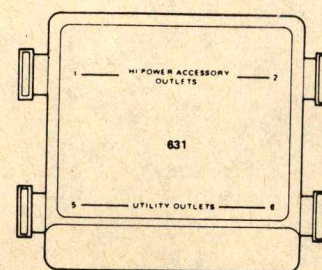
620



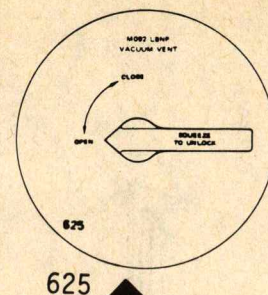
640



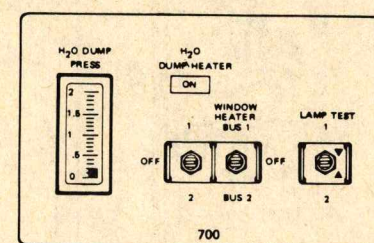
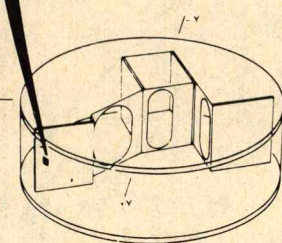
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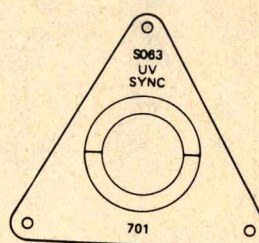
631



625



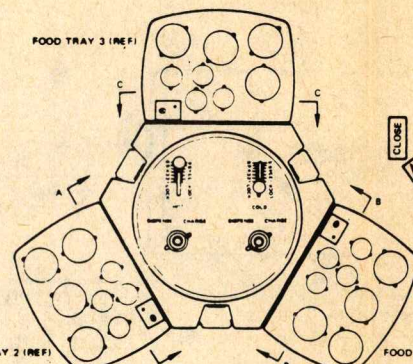
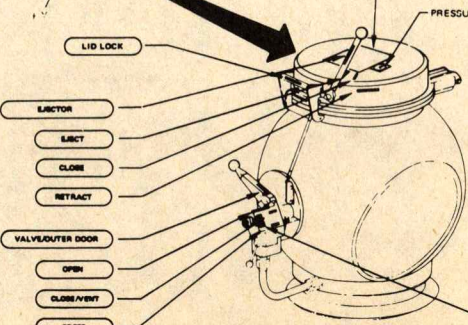
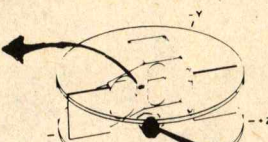
700



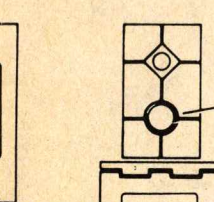
701

1. VALVE/OUTER DOOR handle - PRESS (5 psi verify)
2. LID - UNLOCK and open
3. Insert trash bag
4. LID - close and LOCK
5. VALVE/OUTER DOOR handle - CLOSE/VENT (verify < 0.5 psi)
6. VALVE/OUTER DOOR handle - OPEN
7. EJECTOR handle - EJECT return to CLOSE
8. VALVE/OUTER DOOR handle - CLOSE/VENT
9. EJECTOR handle - RETRACT

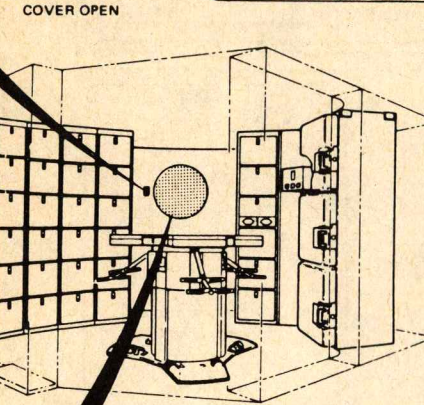
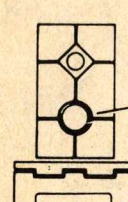
634



705



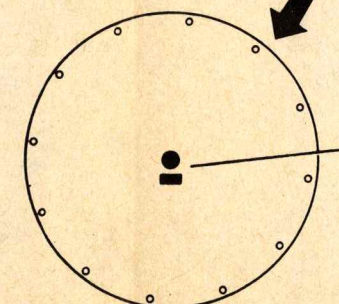
COVER CLOSED



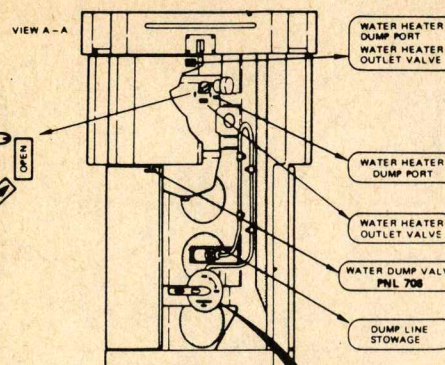
COVER OPEN

1. WINDOW VENT VALVE - OPEN 3 turns CCW wait 15 sec. max. for window to vent.
2. WINDOW VENT VALVE - CLOSE, hand tighten.

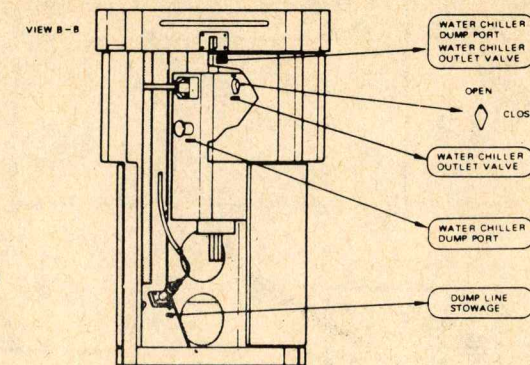
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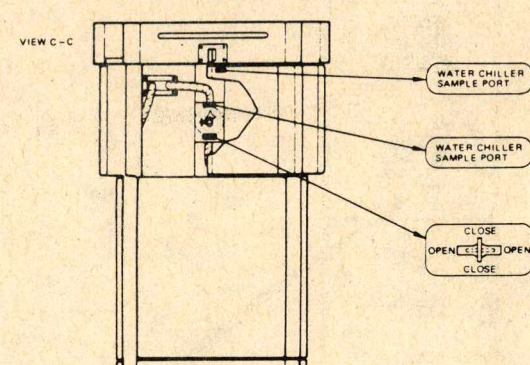
704



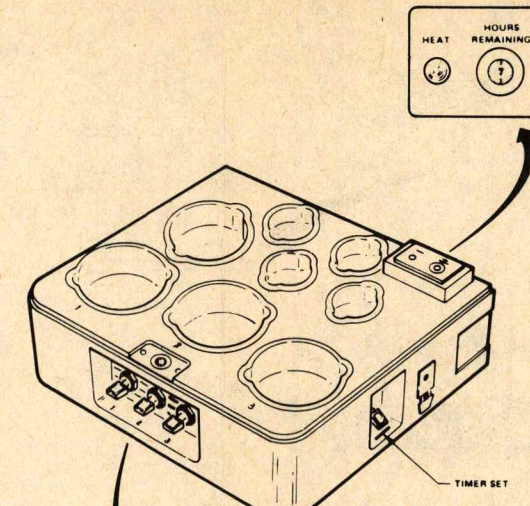
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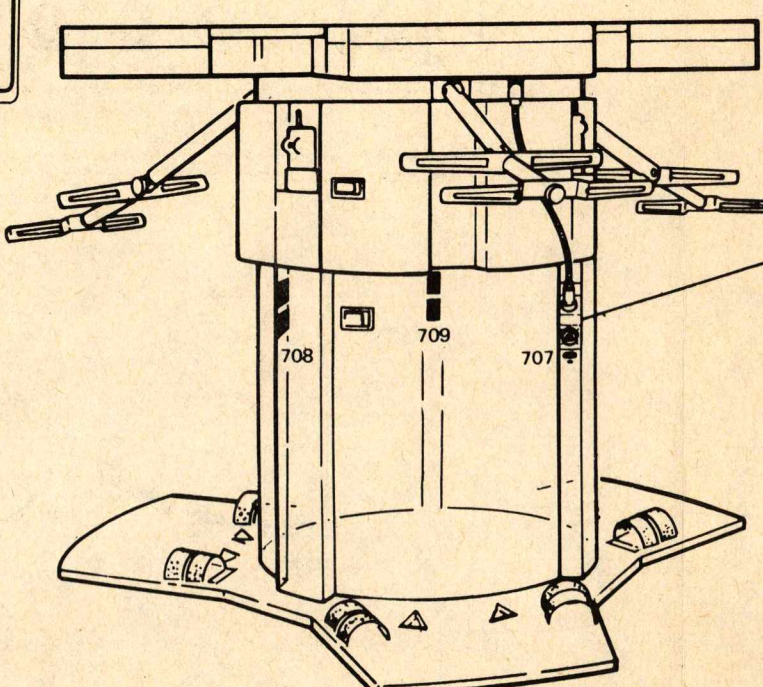
706



706



FOOD HEATER TRAY



707, 708, 709

PANEL	OUTLET
707	FOOD TRAY 1 (SHOWN)
708	FOOD TRAY 2
709	FOOD TRAY 3

POS III -Z

POS II -Y

POS I +Z

402

701

700

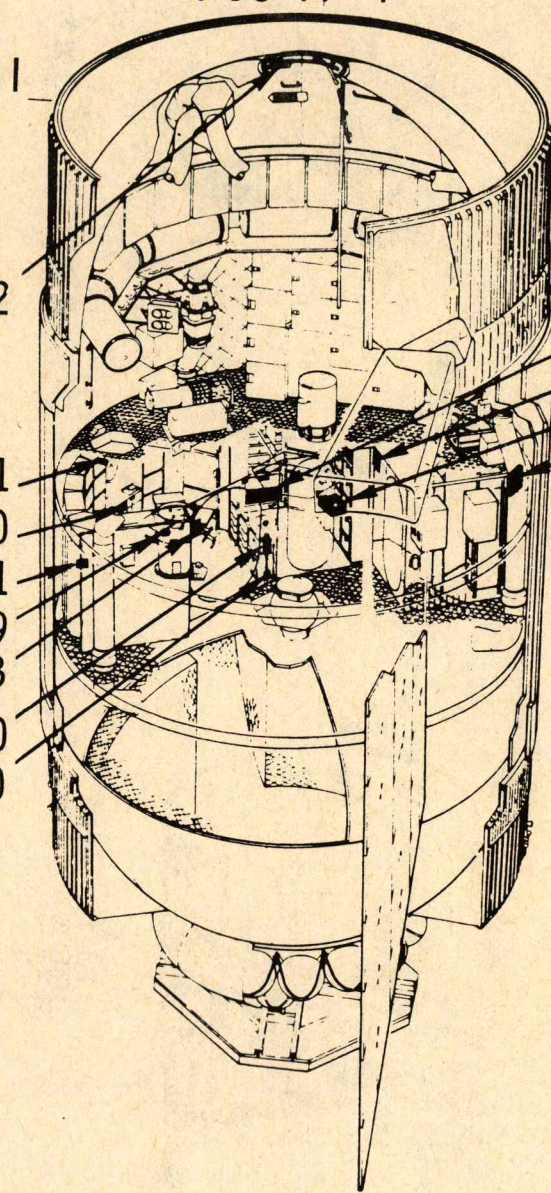
711

707, 8, 9

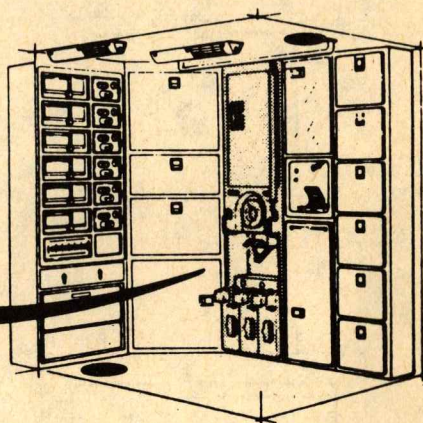
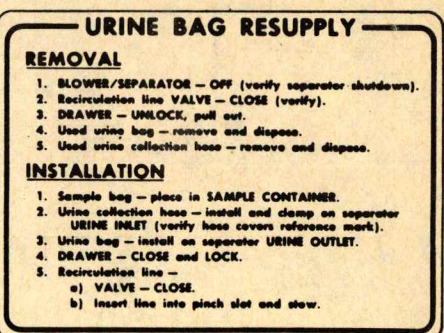
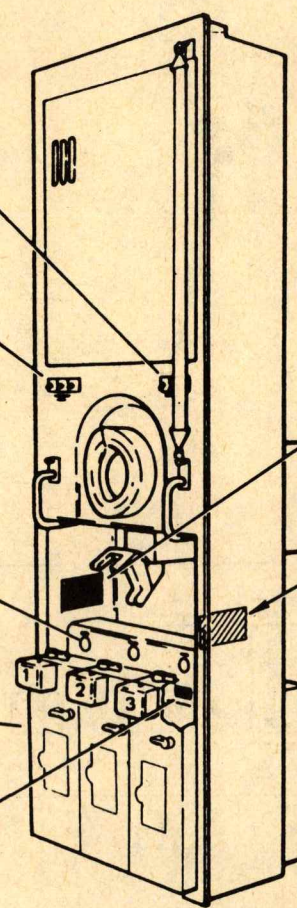
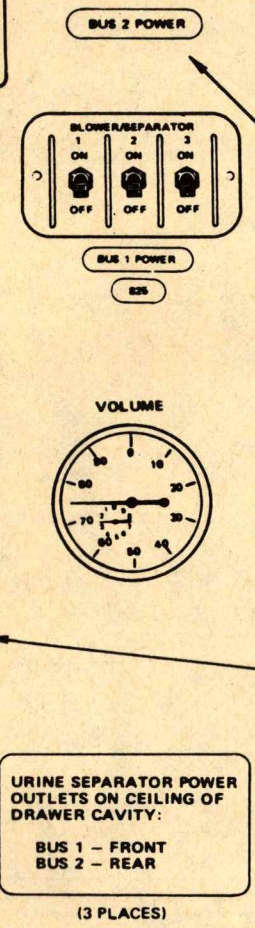
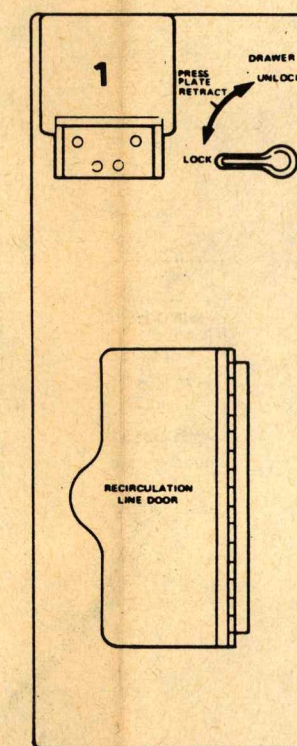
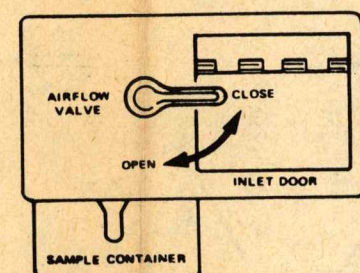
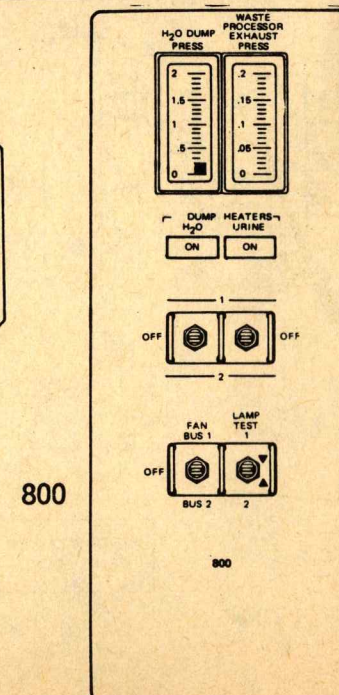
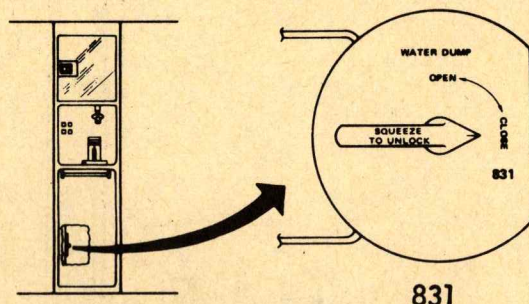
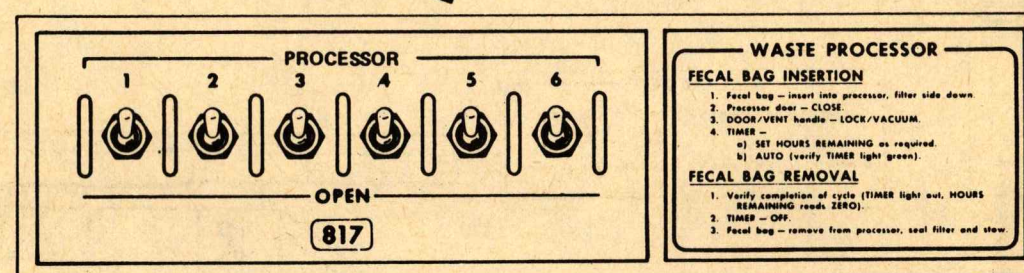
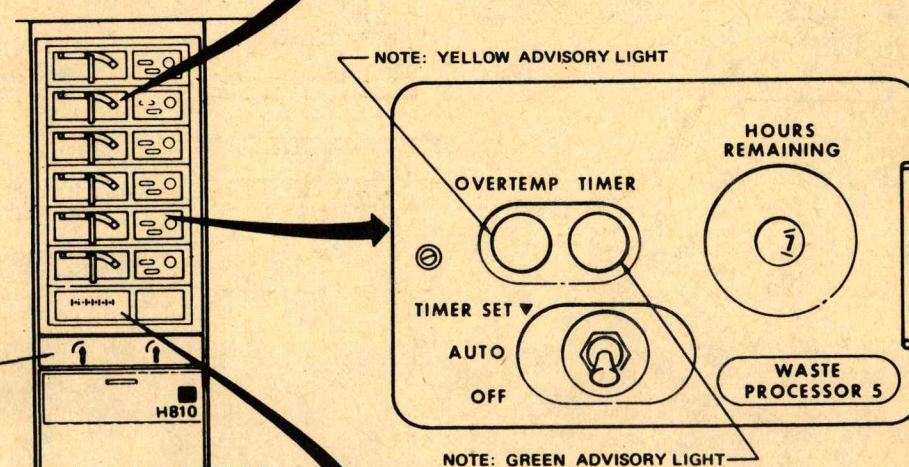
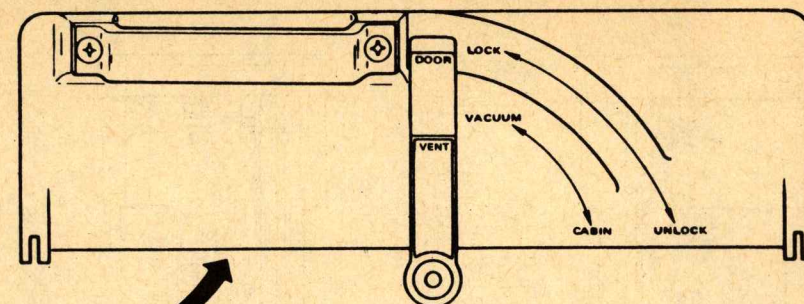
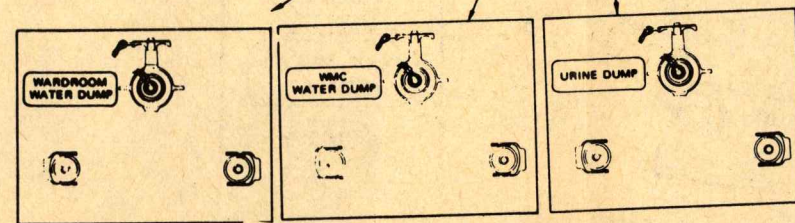
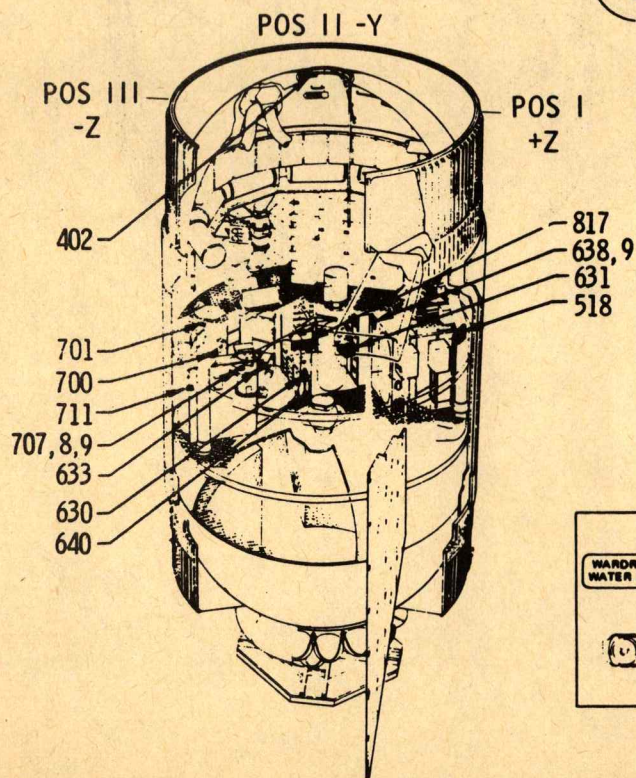
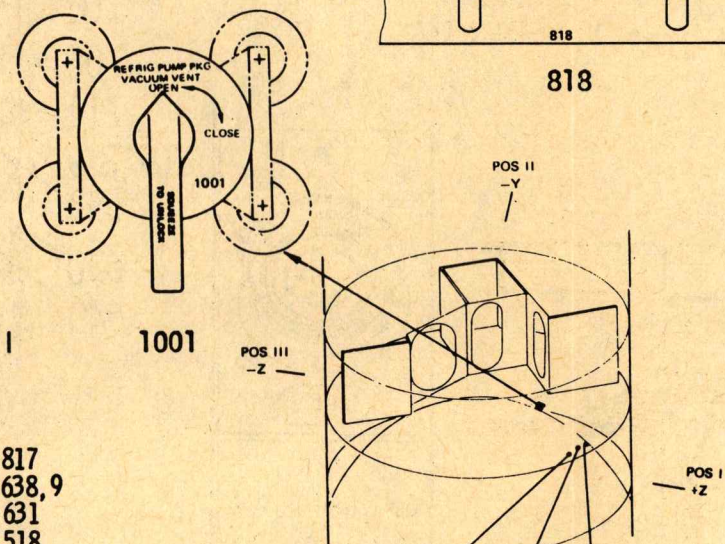
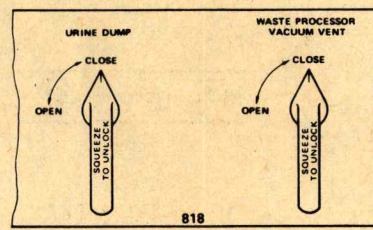
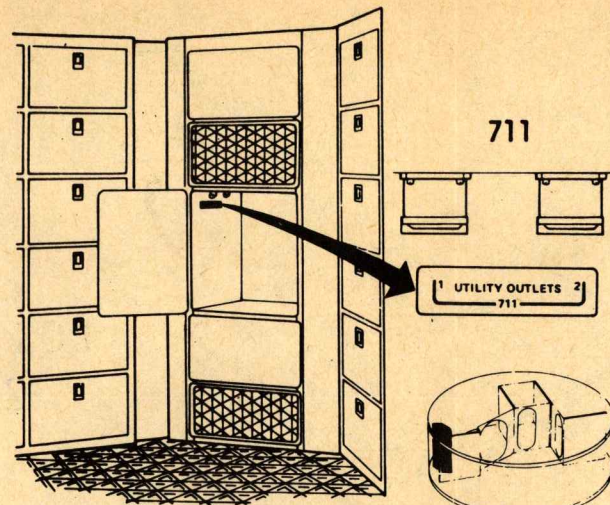
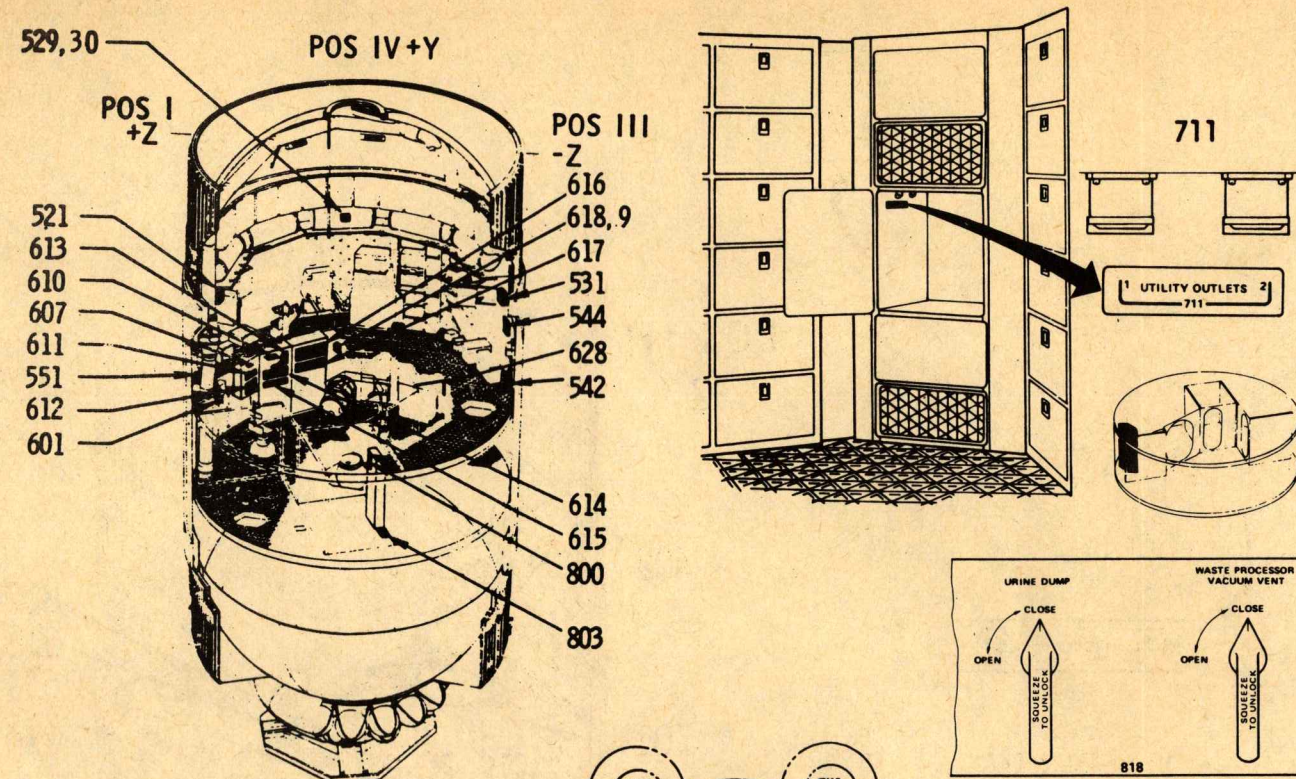
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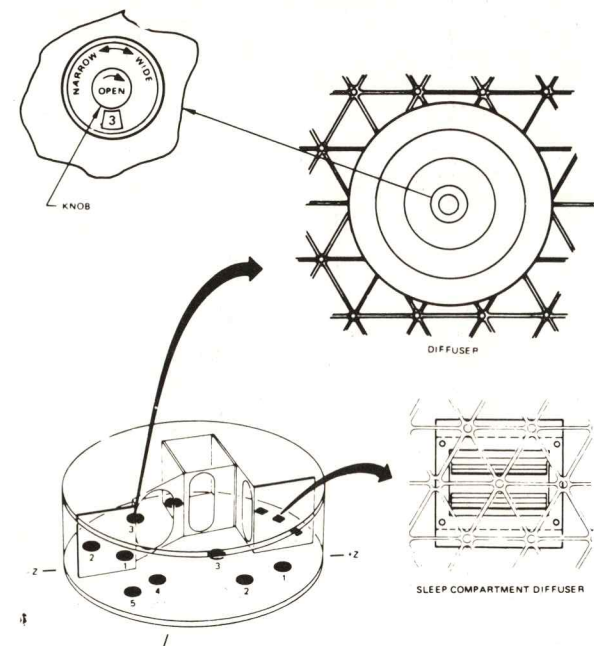
630

640



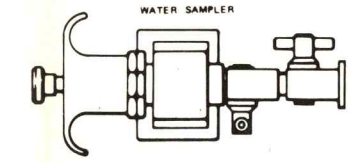
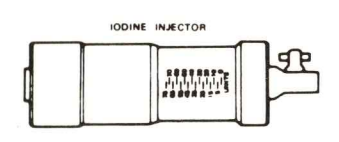
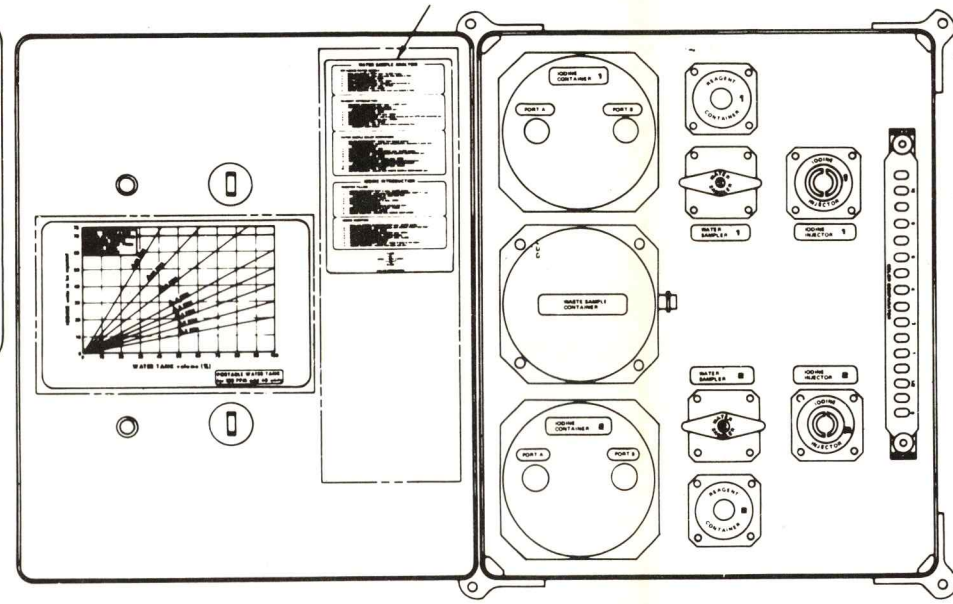
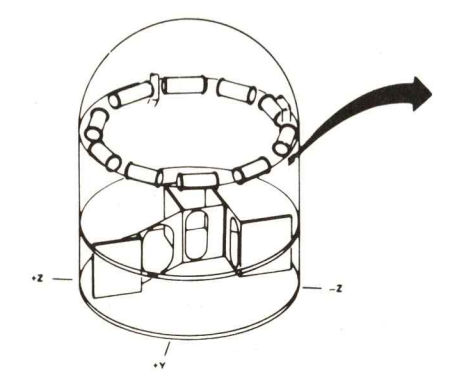
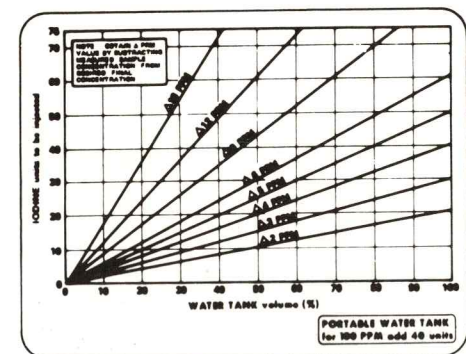
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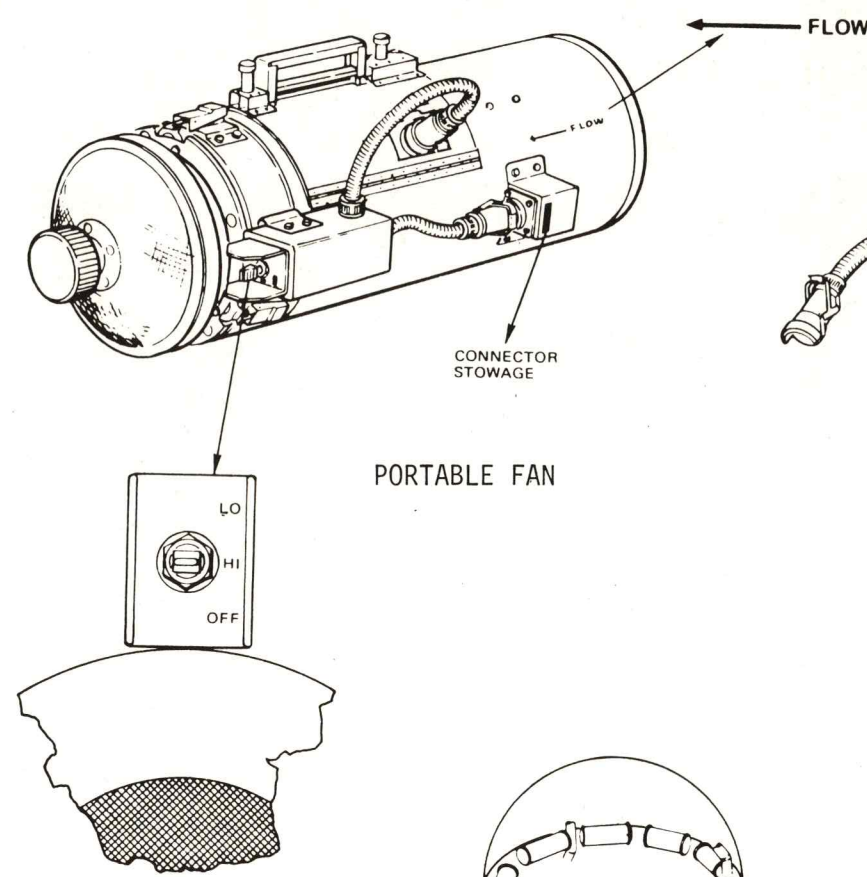


HABITATION AREA AIR DIFFUSERS

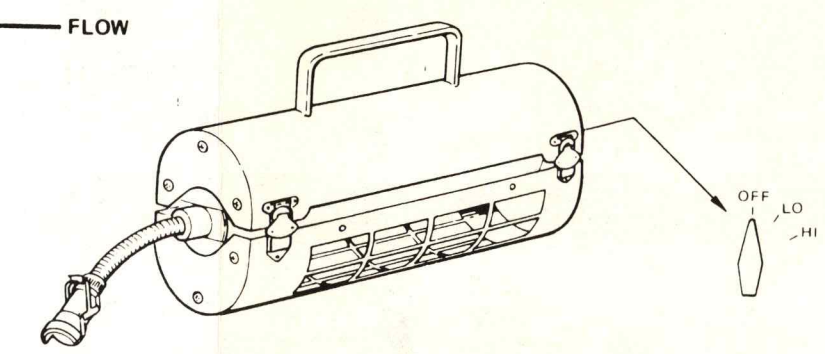
WATER SAMPLE ANALYSIS	
OBTAINING WATER SAMPLE	
1. WATER SAMPLE PORT valve CLOSE (verify)	
2. WATER SAMPLER, screw down WATER SAMPLE PORT	
3. WATER SAMPLER valve OPEN	
4. WATER SAMPLE PORT valve OPEN	
5. WATER SAMPLER plunger, withdraw until bottomed out	
6. WATER SAMPLE PORT valve CLOSE	
7. WATER SAMPLER valve CLOSE	
8. WATER SAMPLER, unscrew from WATER SAMPLE PORT	
REAGENT INTRODUCTION	
1. REAGENT CONTAINER port valve CLOSE (verify)	
2. WATER SAMPLER, screw down REAGENT CONTAINER port	
3. REAGENT CONTAINER port valve OPEN	
4. REAGENT CONTAINER port valve OPEN	
5. WATER SAMPLER plunger, push on stopper threads and	
6. REAGENT CONTAINER port valve CLOSE	
7. WATER SAMPLER valve CLOSE	
8. WATER SAMPLER, wait 10 minutes before unscrewing from	
9. REAGENT CONTAINER	
WATER SAMPLE COLOR COMPARISON	
1. COLOR COMPARTMENT, observe from overhead position	
2. Make color comparison, record water concentration	
3. COLOR COMPARTMENT, observe from overhead position	
4. WATER SAMPLER, screw down WATER SAMPLE CONTAINER	
5. WATER SAMPLER valve OPEN	
6. WATER SAMPLER plunger, turn CW until stopped	
7. WATER SAMPLER, screw down WATER SAMPLE CONTAINER	
8. WATER SAMPLER valve OPEN	
9. WATER SAMPLER, screw down WATER SAMPLE CONTAINER	
10. WATER SAMPLER valve CLOSE	
11. WATER SAMPLER, unscrew from WATER SAMPLE CONTAINER	
IODINE INTRODUCTION	
INJECTOR FILLING	
1. IODINE CONTAINER PORT A valve CLOSE (verify)	
2. IODINE INJECTOR, screw down IODINE CONTAINER PORT A	
3. IODINE INJECTOR valve OPEN	
4. IODINE INJECTOR valve OPEN	
5. IODINE CONTAINER PORT A valve OPEN	
6. IODINE INJECTOR valve CLOSE	
7. IODINE CONTAINER PORT A valve CLOSE	
8. IODINE INJECTOR valve CLOSE	
IODINE INJECTION	
1. WATER tank IODINE INJECTION PORT valve CLOSE (verify)	
2. IODINE INJECTOR, screw down WATER tank IODINE	
3. IODINE INJECTOR valve OPEN	
4. WATER tank IODINE INJECTION PORT valve OPEN	
5. WATER tank IODINE INJECTION PORT valve OPEN	
6. WATER tank IODINE INJECTION PORT valve CLOSE	
7. WATER tank IODINE INJECTION PORT valve CLOSE	
8. WATER tank IODINE INJECTION PORT valve CLOSE	
9. WATER tank IODINE INJECTION PORT valve CLOSE	
10. WATER tank IODINE INJECTION PORT valve CLOSE	
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98. WATER tank IODINE INJECTION PORT valve CLOSE	
99. WATER tank IODINE INJECTION PORT valve CLOSE	
100. WATER tank IODINE INJECTION PORT valve CLOSE	
VALVE OPERATION	
CLOSE	
OPEN	
CLOSE	
CLOSE	



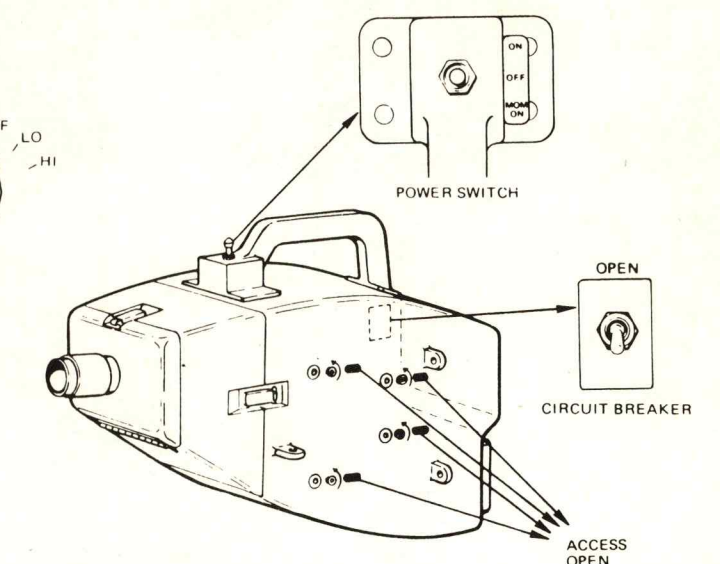
WATER PURIFICATION EQUIPMENT



PORTABLE FAN

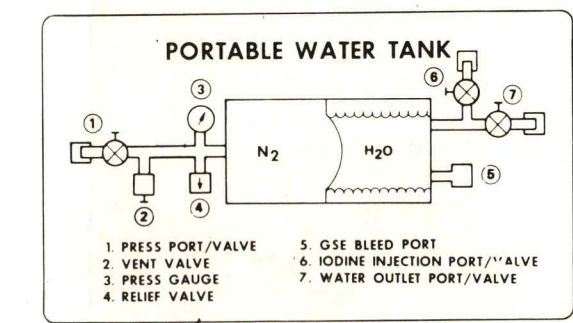
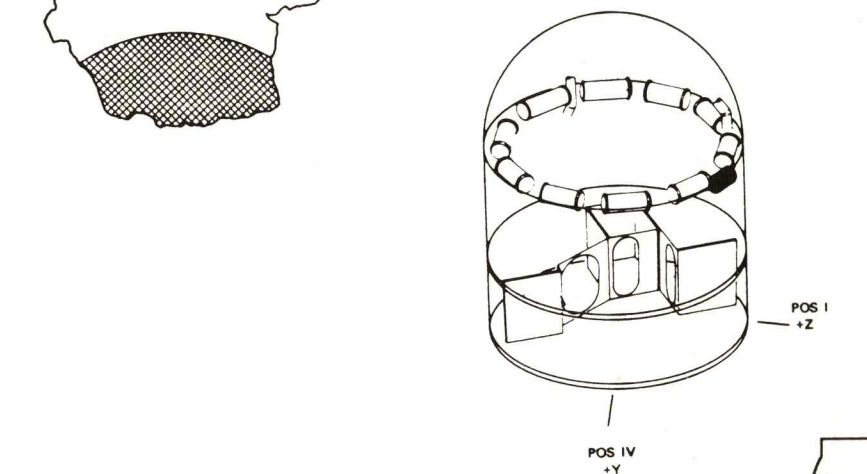


PORTABLE LIGHT

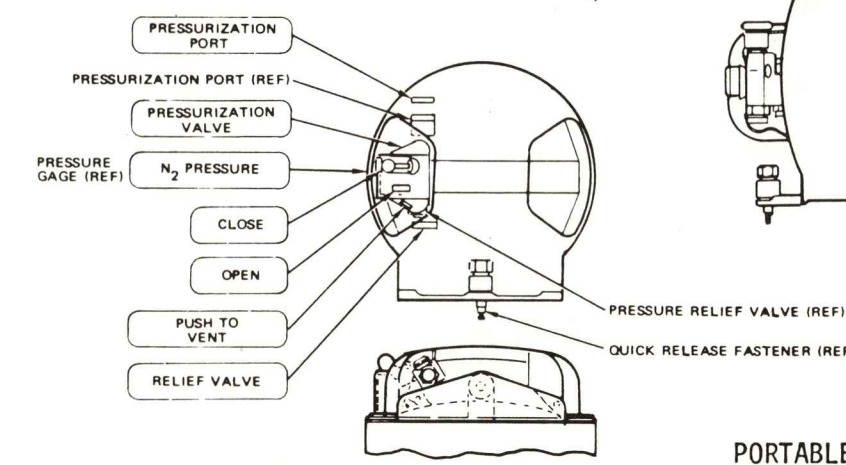


VACUUM CLEANER

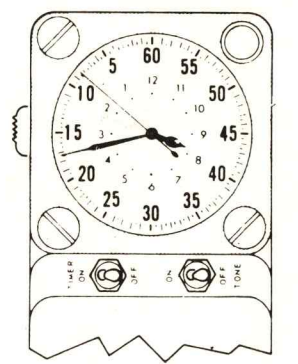
(Power switch, circuit breaker illustrations same for WMC and suit drying blower units)



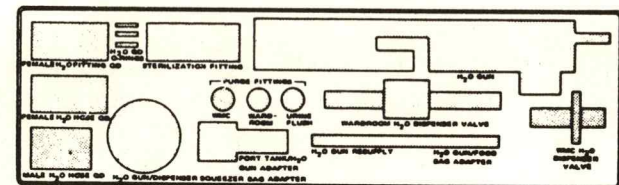
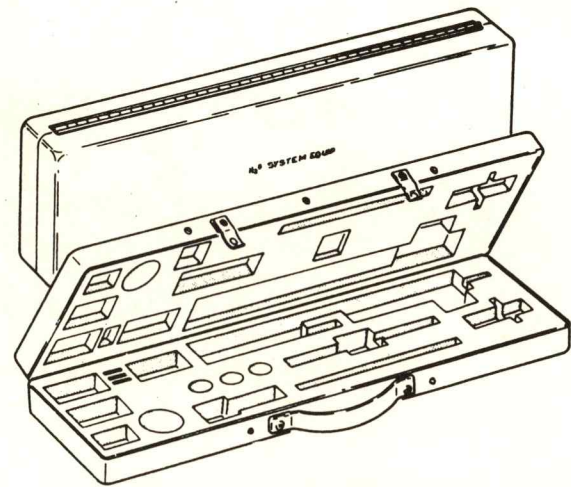
PORTABLE WATER TANK



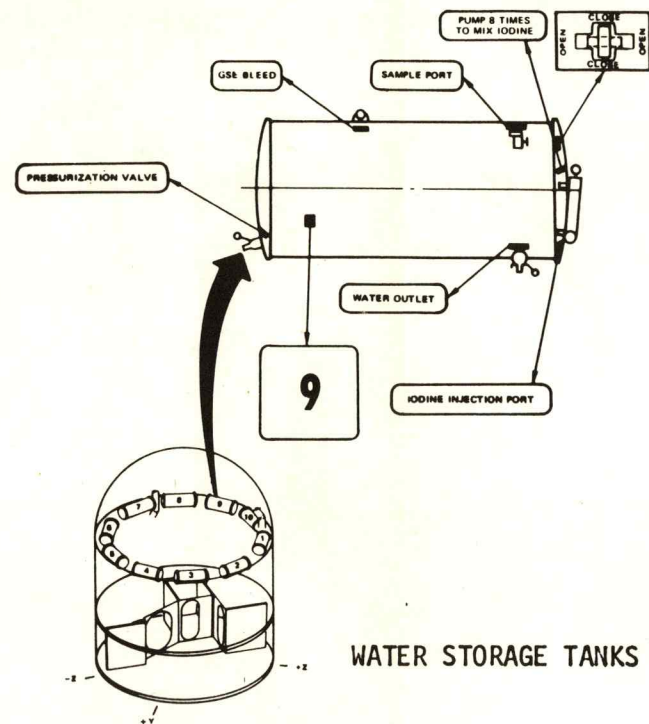
PORTABLE WATER TANK



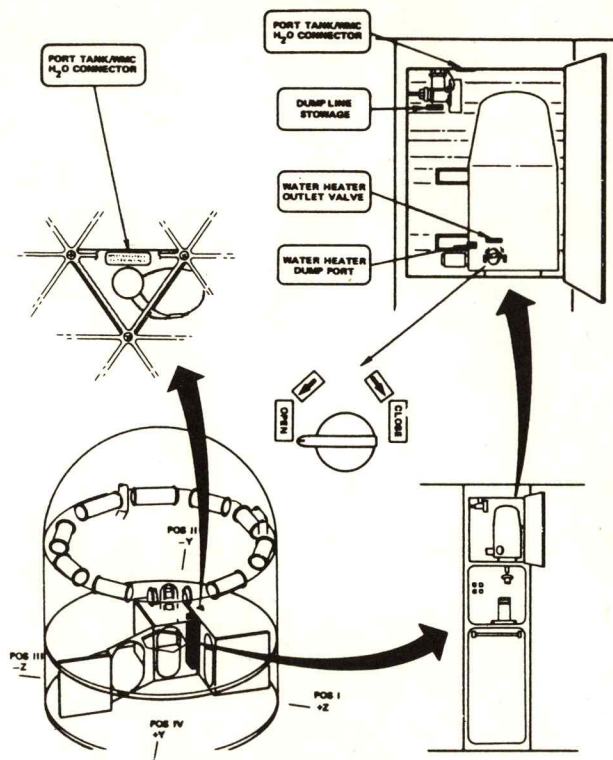
PORTABLE TIMER



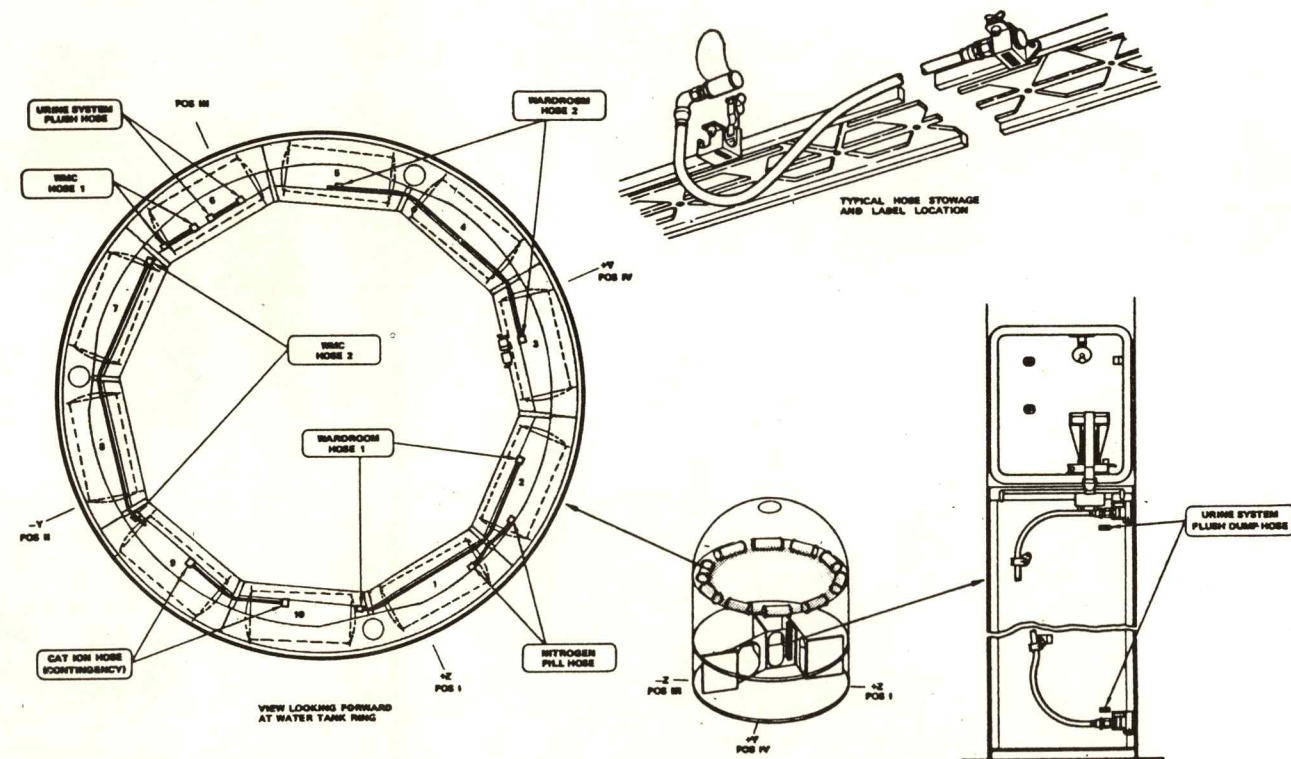
H2O SYSTEM SPARES



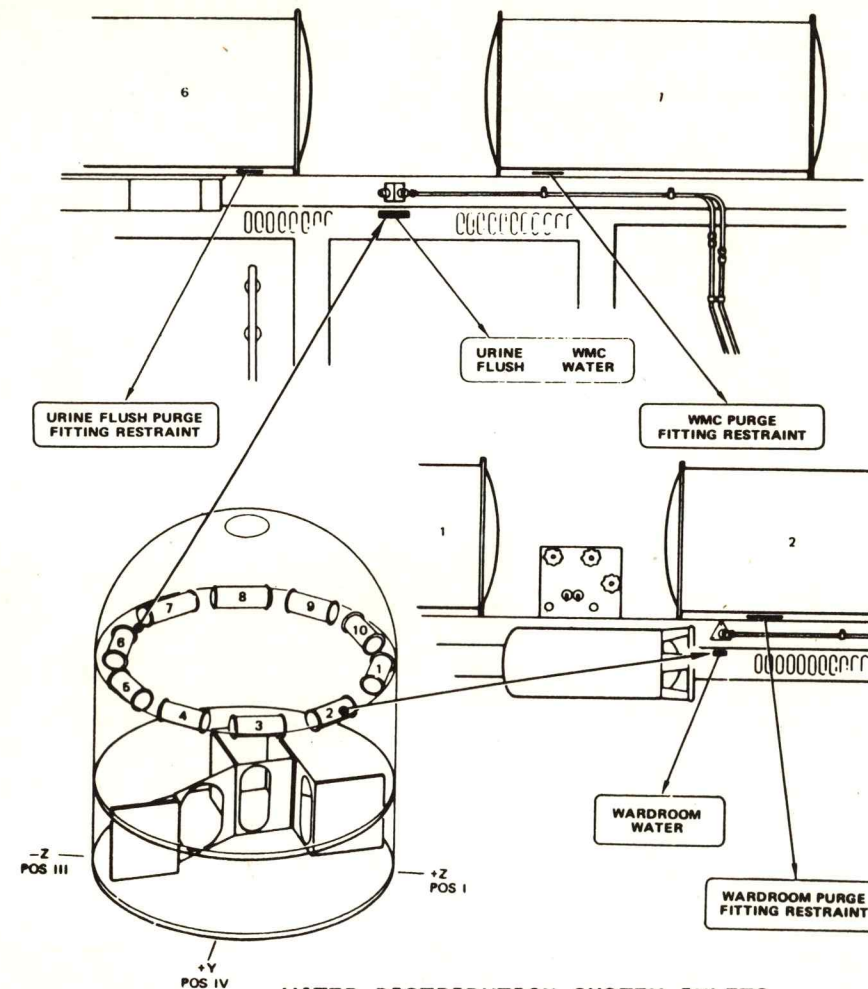
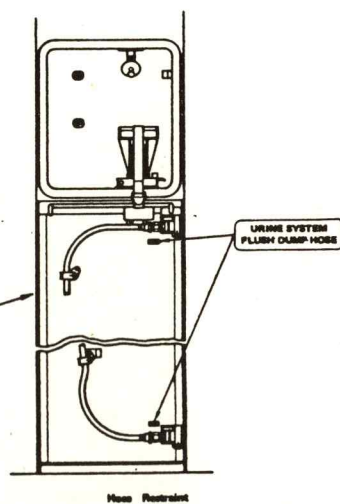
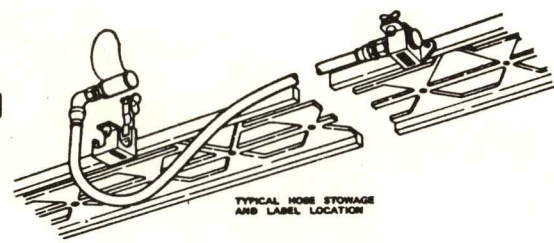
WATER STORAGE TANKS



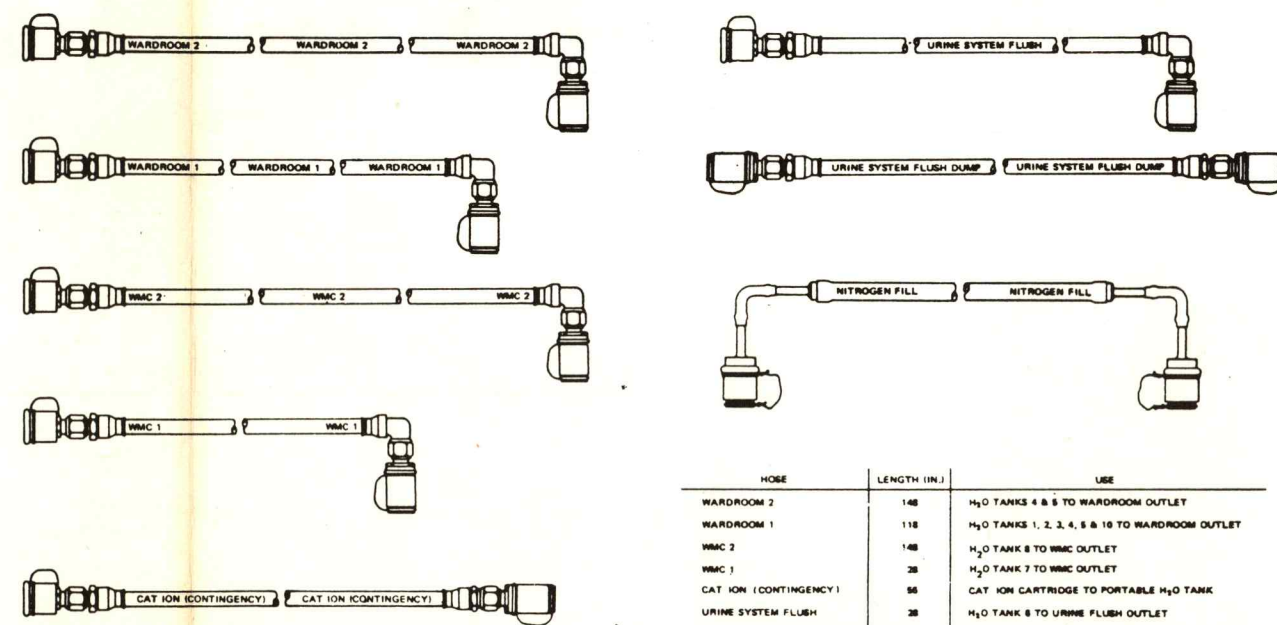
WMC WATER HEATER COMPARTMENTS



WATER DISTRIBUTION SYSTEM HOSE STOWAGE

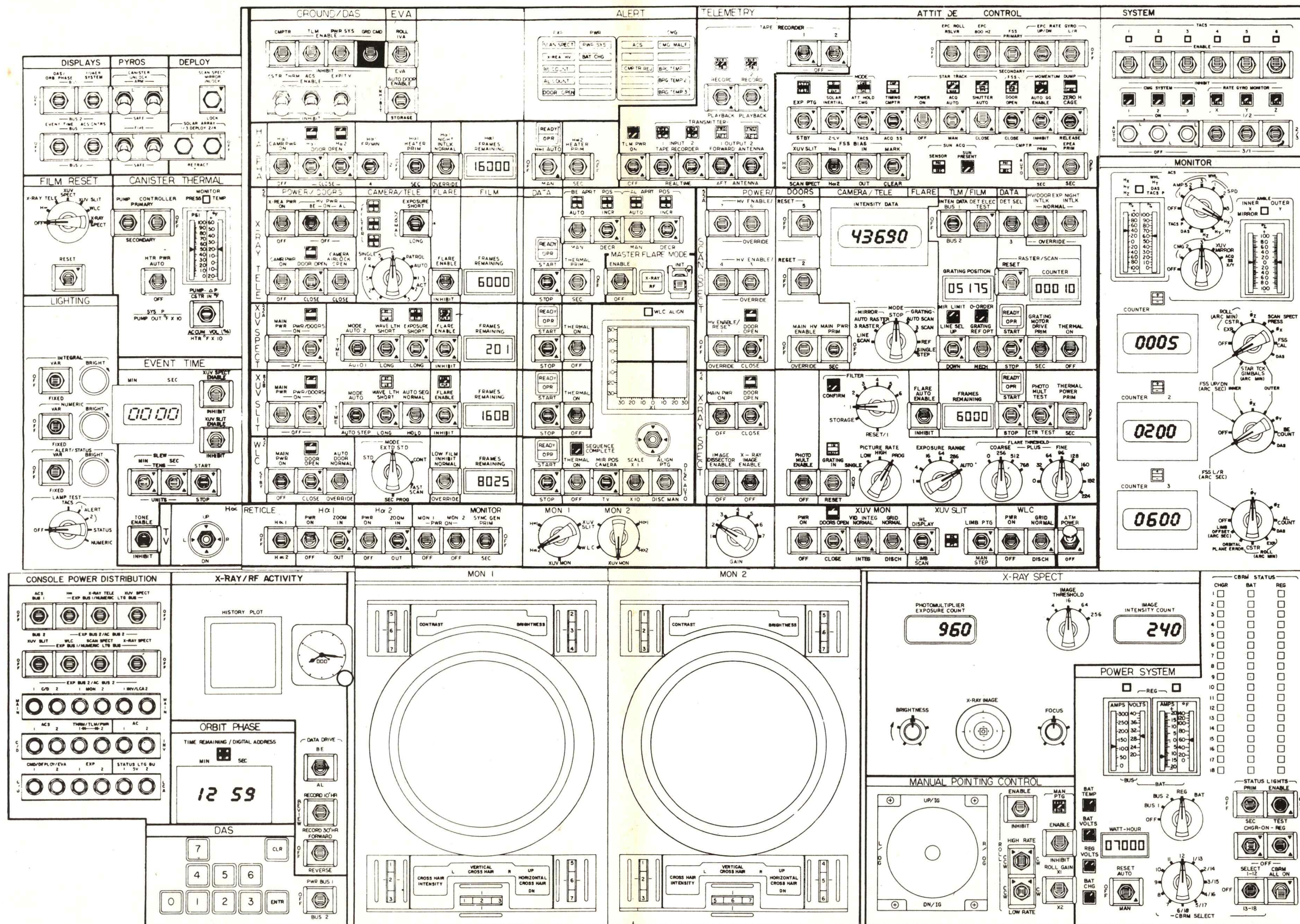


WATER DISTRIBUTION SYSTEM INLETS



HOSE	LENGTH (IN.)	USE
WARDROOM 2	148	H ₂ O TANKS 4 & 5 TO WARDROOM OUTLET
WARDROOM 1	118	H ₂ O TANKS 1, 2, 3, 4, 5 & 10 TO WARDROOM OUTLET
WMC 2	148	H ₂ O TANK 6 TO WMC OUTLET
WMC 1	28	H ₂ O TANK 7 TO WMC OUTLET
CAT ION (CONTINGENCY)	55	CAT ION CARTRIDGE TO PORTABLE H ₂ O TANK
URINE SYSTEM FLUSH	28	H ₂ O TANK 8 TO URINE FLUSH OUTLET
URINE SYSTEM FLUSH DUMP	44	URINE SYSTEM FLUSH DUMP (LOCKER H22) TO WMC DUMP LINE (BELOW SINK)
NITROGEN FILL	30	PANEL 800 (25 PSI H ₂) TO PORTABLE WATER TANK

WATER DISTRIBUTION SYSTEM HOSES



COMPOSITE OF SHEETS 1 THRU 10
OF ICD 40M37871 REV J
ATM C&D PANEL CONFIGURATION
20 JAN, 71

LEGEND (SHEETS 2 THRU 10)

POSITION CODE

MOMENTARY

LASTING (LOCKING SWITCH ONLY)
SYMBOL & L NOT TO BE INCLUDED
ON PANEL

FLAG INDICATIONS

COLOR GRAY
NORMAL, NOT INHIBITED, ON, OPEN

COLOR WHITE
ABNORMAL, NOT COMPLETE

COLOR BLACK & WHITE
DEACTIVATED, INHIBITED, OFF, CLOSED

WHITE LETTERS ON
GRAY BACKGROUND

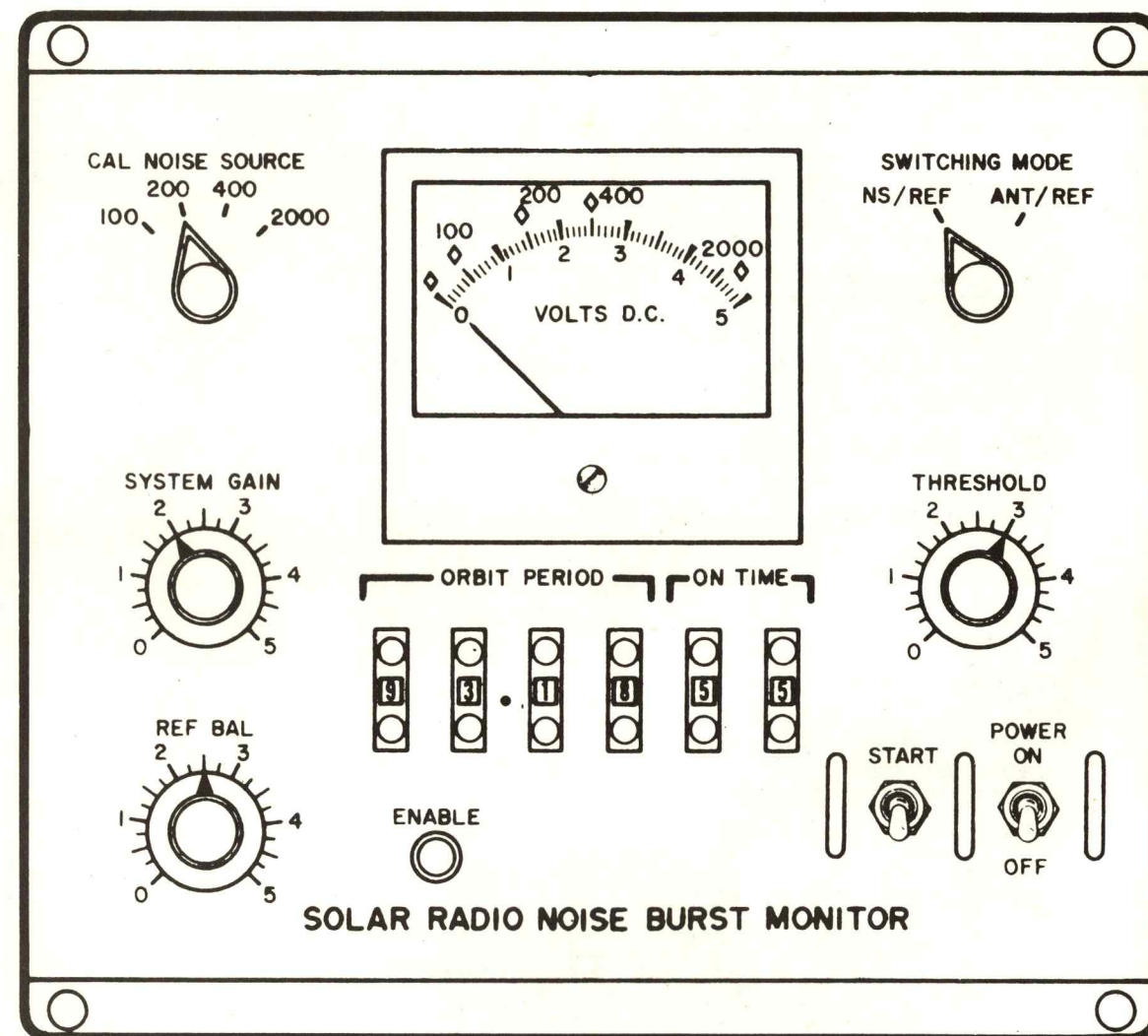
INDICATION (ACS) TO BE BLACK LETTERS
ON WHITE BACKGROUND (2 PLACES)

INDICATOR LIGHT COLORS

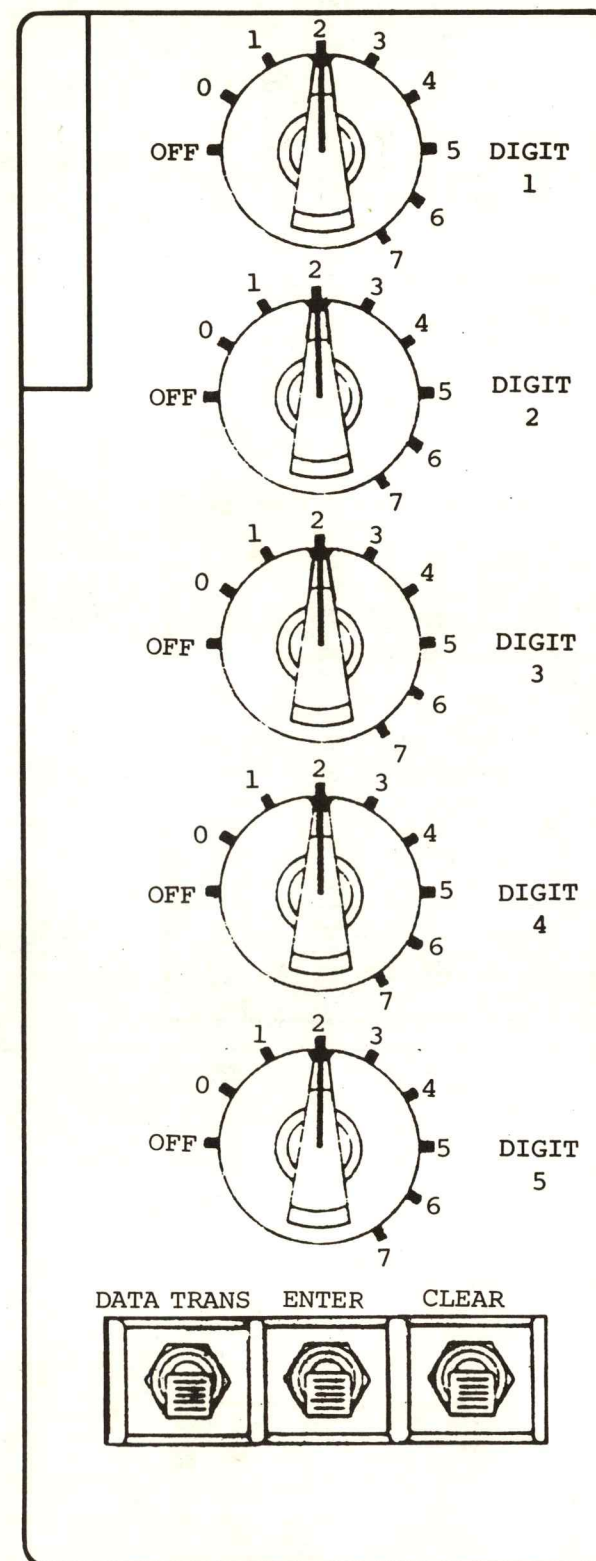
PER MIL-C-25050, TYPE I CBRM - YELLOW STATUS, OPERATE - WHITE
METER FAILURE - YELLOW TACS - GREEN
ALERT - BLUE X-RAY/RF - GREEN
STATUS, READY - GREEN

PANEL COLOR

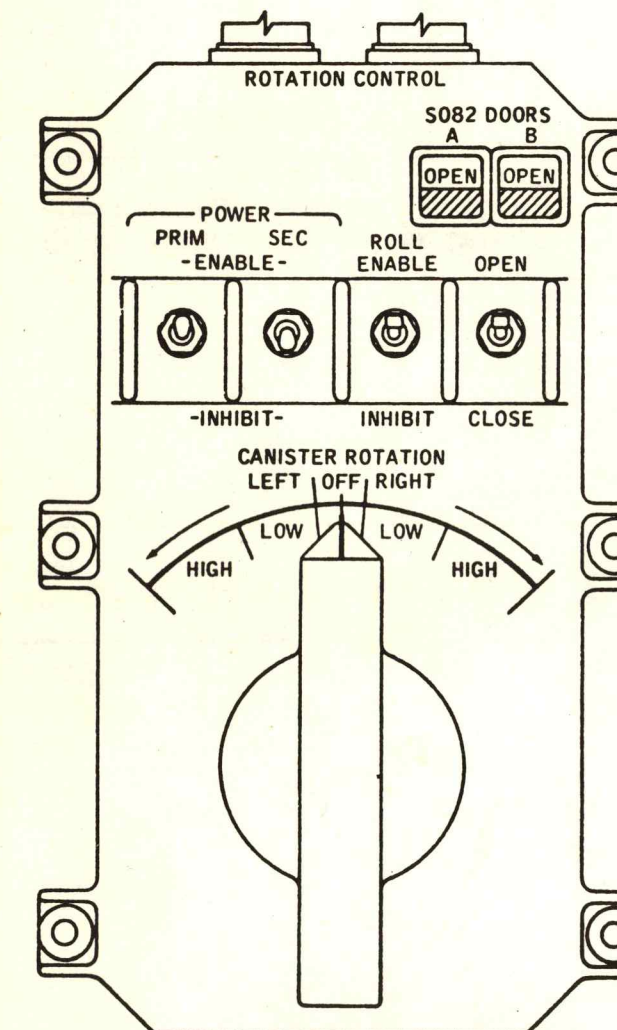
BACKGROUND - GRAY PER FED-STD-595 COLOR 36231
NOMENCLATURE - WHITE COLOR 37875 ELECTROLUMINESCENT EXCEPT MON1, MON2, ON
PANELS 7A8, AND UP16, DN16, R10G, L10G ON MPC ARE
ENGRAVED AND FILLED WITH WHITE PER FED-STD-595 COLOR 37875
STYLE OF LETTERS & NUMERALS GORDON NORMAL (ENGRAVED)
STYLE OF LETTERS & NUMERALS FUTURA DEMI BOLD (ELECTROLUMINESCENT)
BORDER & GRID - ATM POWER OFF BORDER
LINES TO BE FLUORESCENT RED, VELVA-GLO RED BY RADIANT COLOR CO
EXPERIMENT AND COMPONENT GROUPING LINES, BOTH
VERTICAL & HORIZONTAL WHITE PER FED-STD-595 COLOR 37875
SWITCH CHANNEL: GROUND/DAS GRD CMD ONLY WHITE PER FED-STD-595 COLOR 37875



ATM Radio Noise Burst Monitor (Panels 128/129)



ATM DAS Backup (Panel 121)



ATM Rotation Control (Panel 160)