

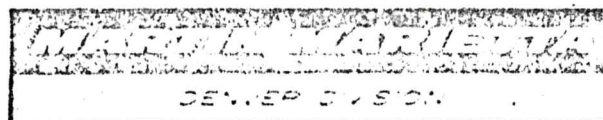
SKYLAB BRIEFING

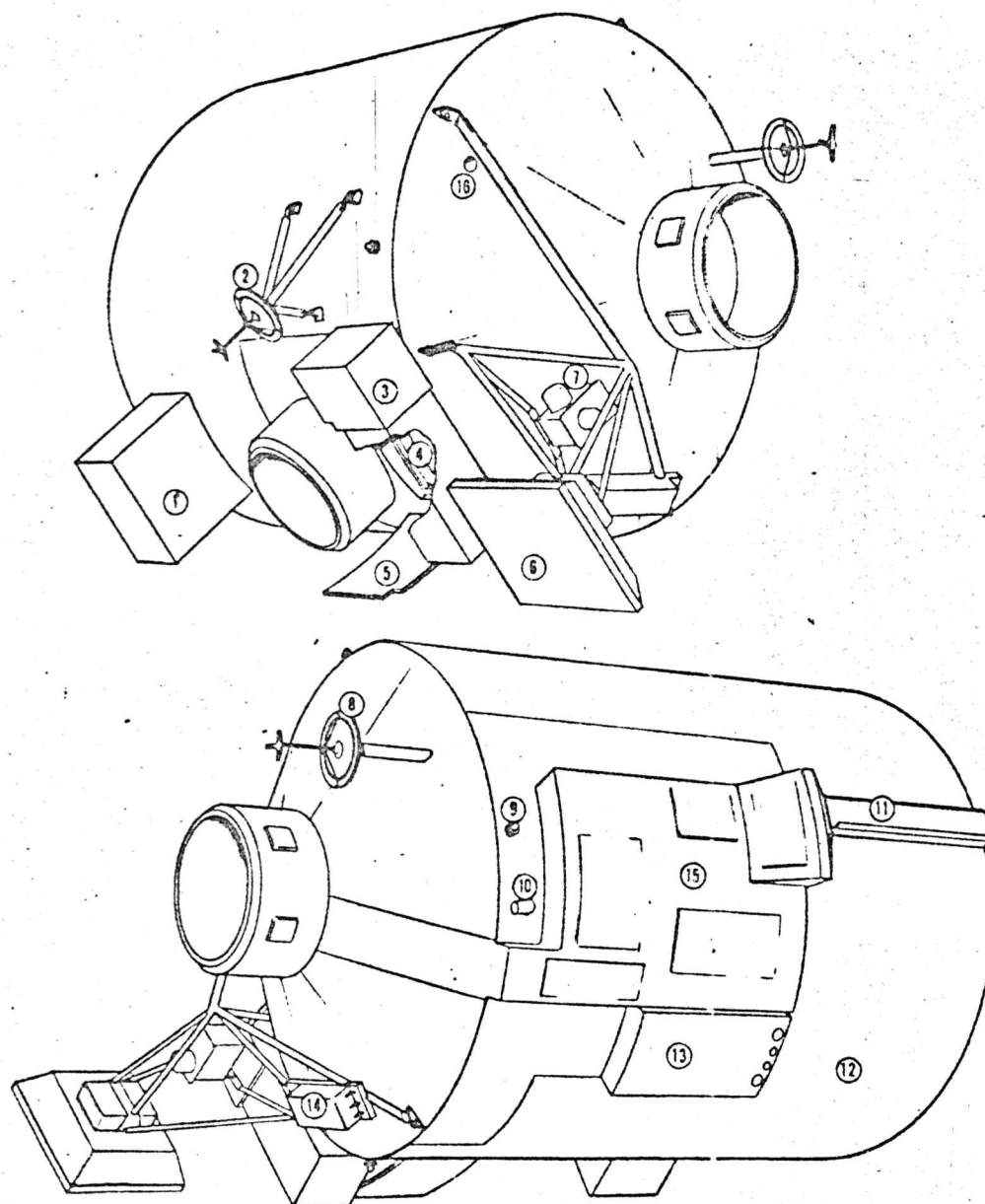
MDA SYSTEMS

Instructor  
A. Hale

SKYLAB CREW PREFLIGHT TRAINING

FOR TRAINING PURPOSES ONLY





1. 1G BAND MULTISPECTRAL SCANNER
2. RADIAL DOCKING TARGET
3. IR SPECTROMETER
4. S19C WINDOW
5. S190 EXTERNAL WINDOW COVER
6. L-BAND ANTENNA
7. PROTON SPECTROMETER
8. AXIAL DOCKING TARGET
9. RUNNING LIGHTS
10. VACUUM VENT
11. AIRLOCK TO MDA ELECTRICAL TUNNEL
12. RADIATOR (WHITE AREA)
13. ATM ELECTRICAL FEED-THROUGH AREA
14. INVERTER LIGHT CONTROL ASSEMBLY
15. ELECTRICAL SYSTEMS AREA
16. M512 EXPERIMENT VENT

Figure 3-10. Multiple Docking Adapter External Configuration

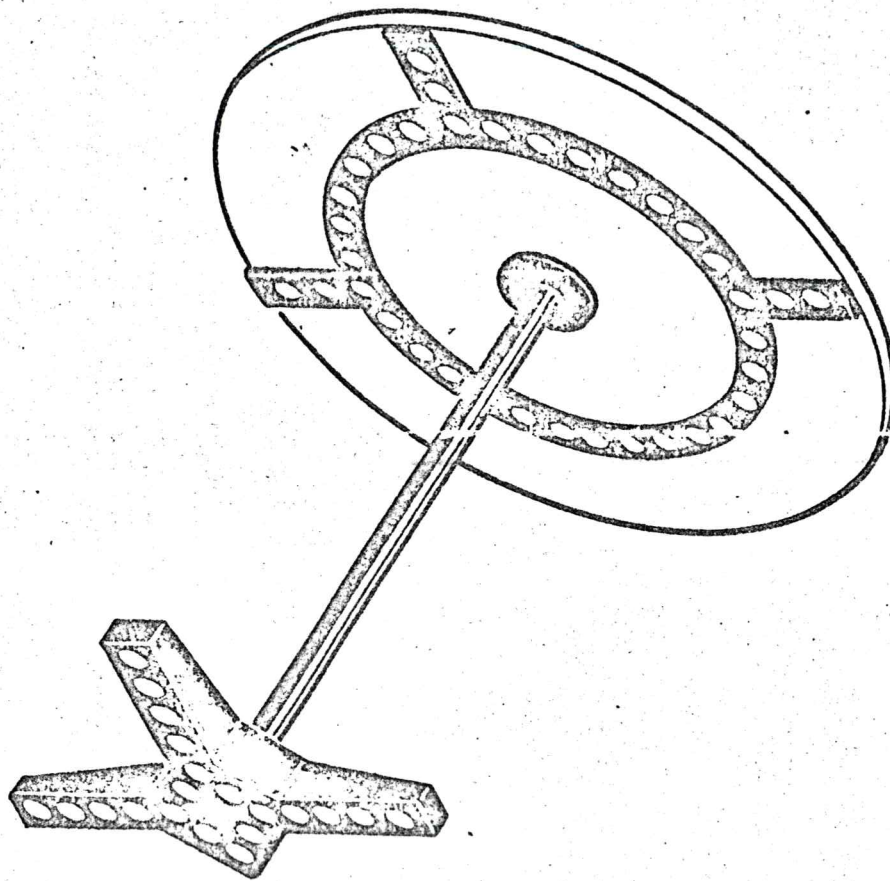
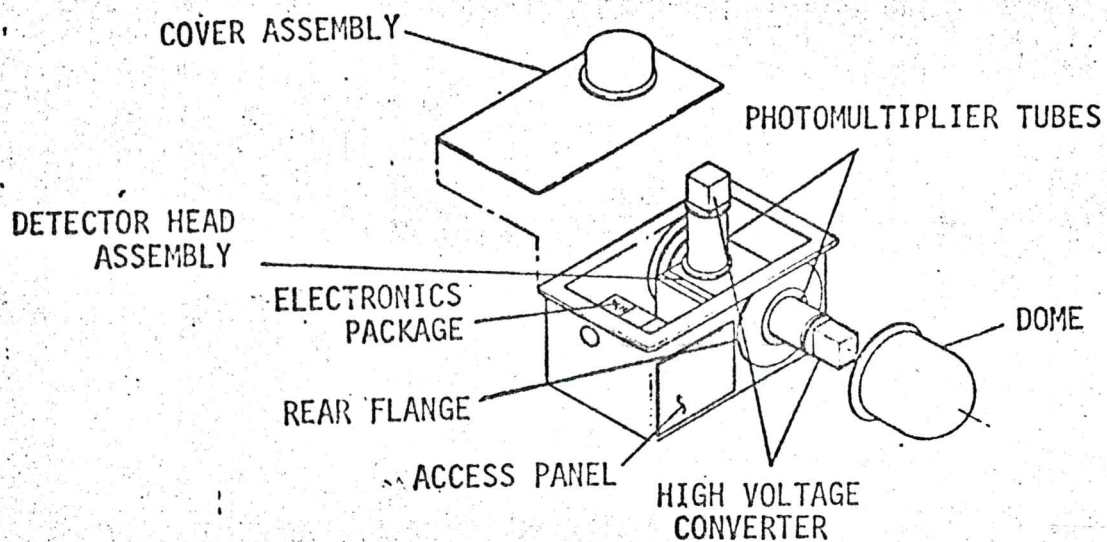
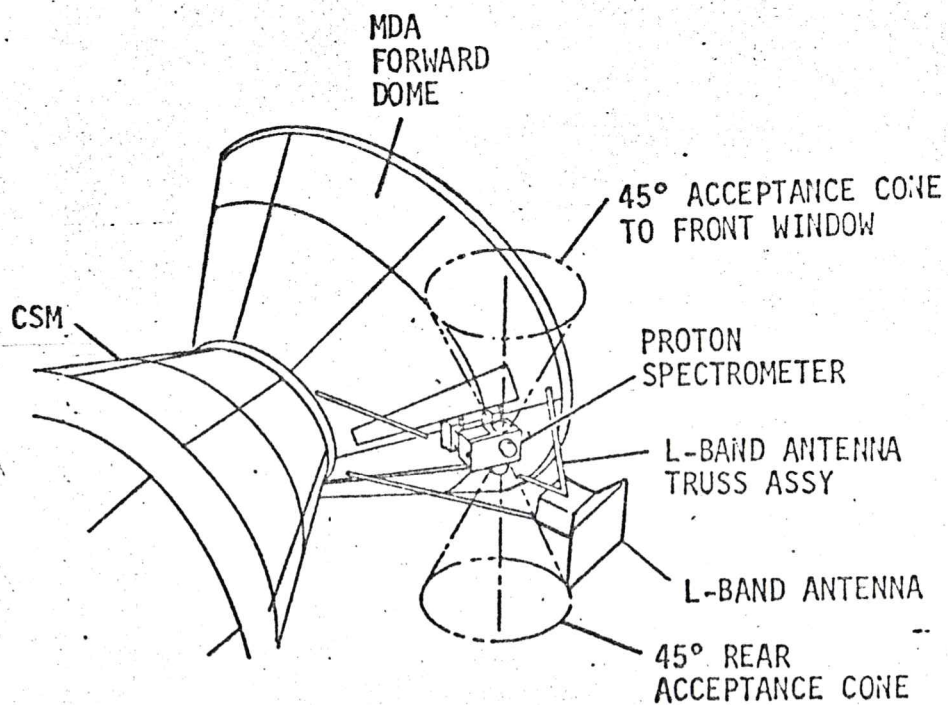


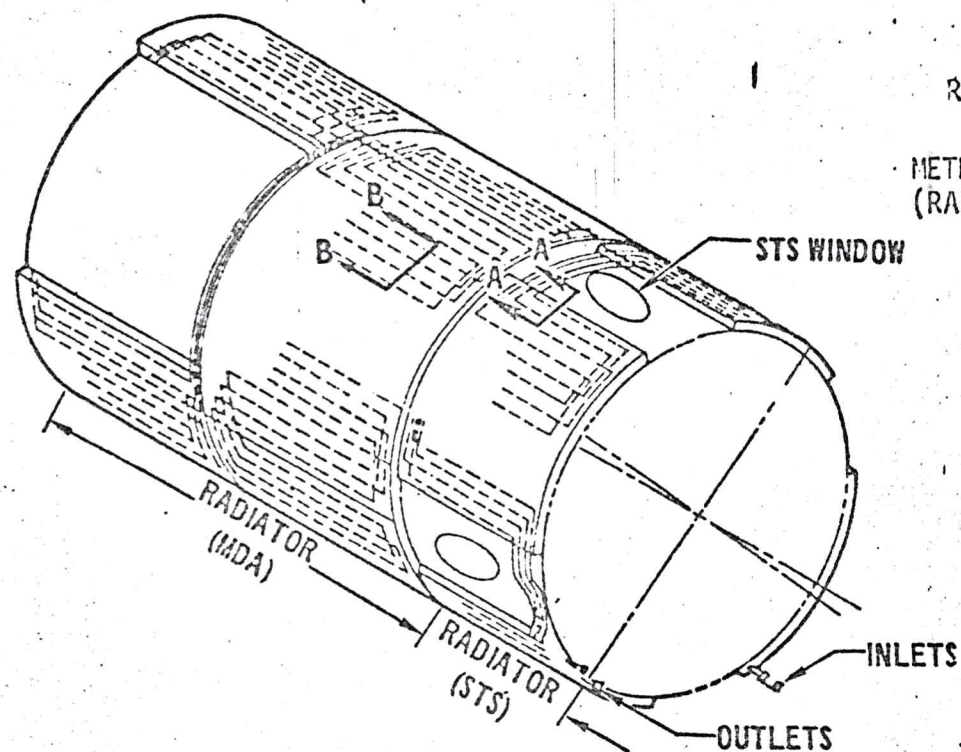
Figure 2-2. Docking Aid



PROTON SPECTROMETER ASSEMBLY



# RADIATOR/METEOROID SHIELD CONFIGURATION



FIBERGLASS  
RADIATOR SUPPORT

RADIATOR EXTRUSION

METEOROID SHIELD  
(RADIATOR SKIN)

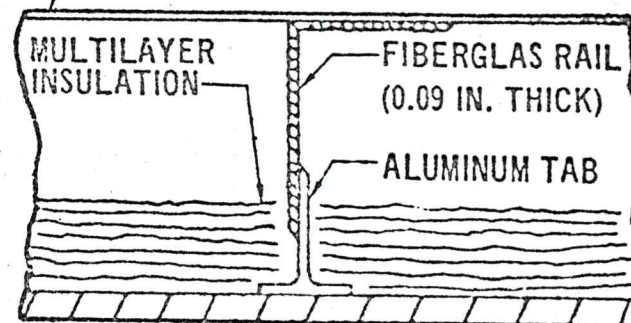
PRESSURE SKIN

ALUMINUM STRINGER

3.00

SECTION A-A

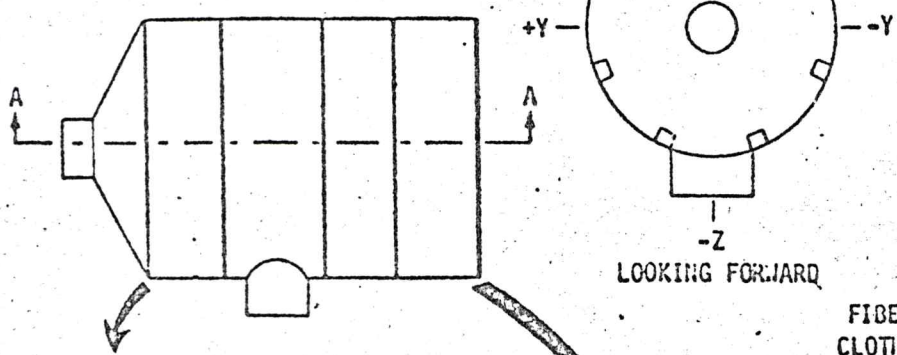
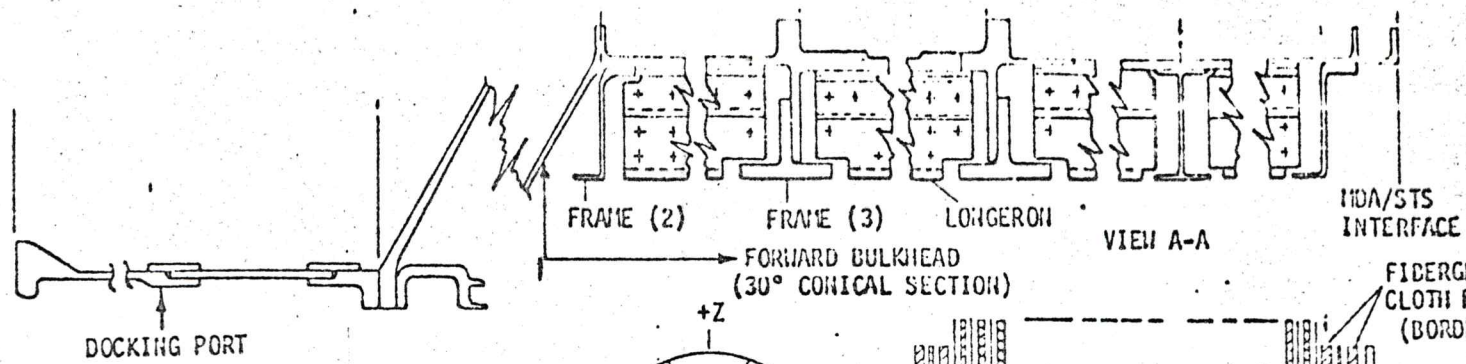
METEOROID SHIELD (OR RADIATOR)



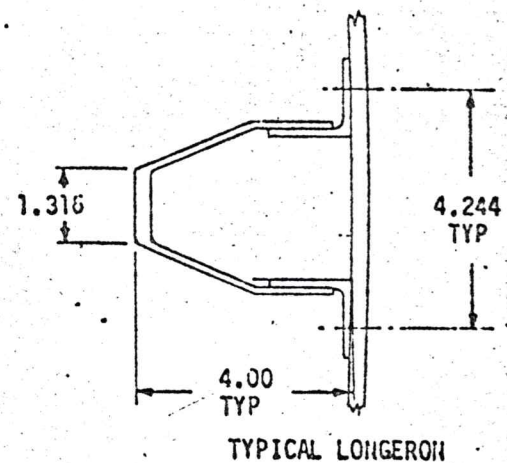
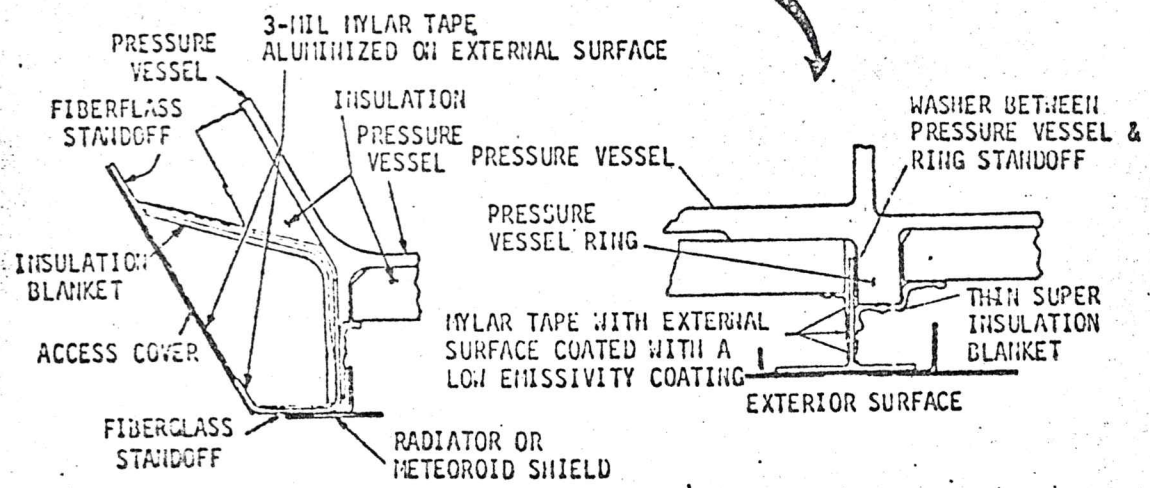
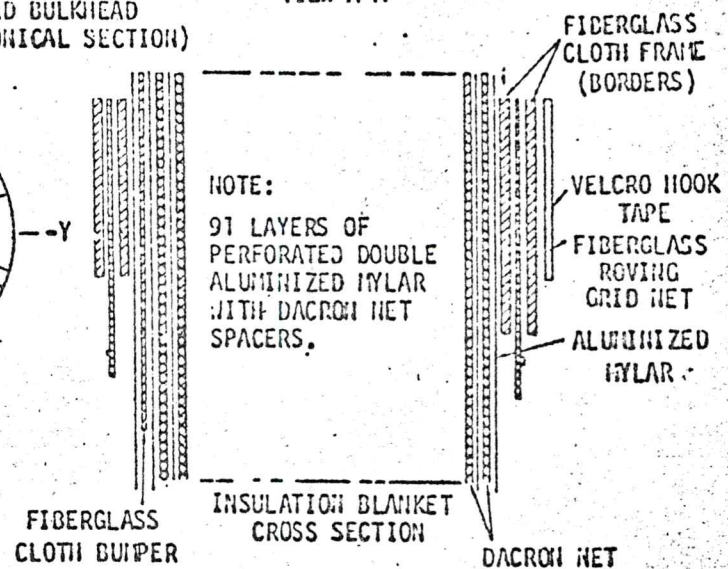
VIEW B-B

JANUARY 1971

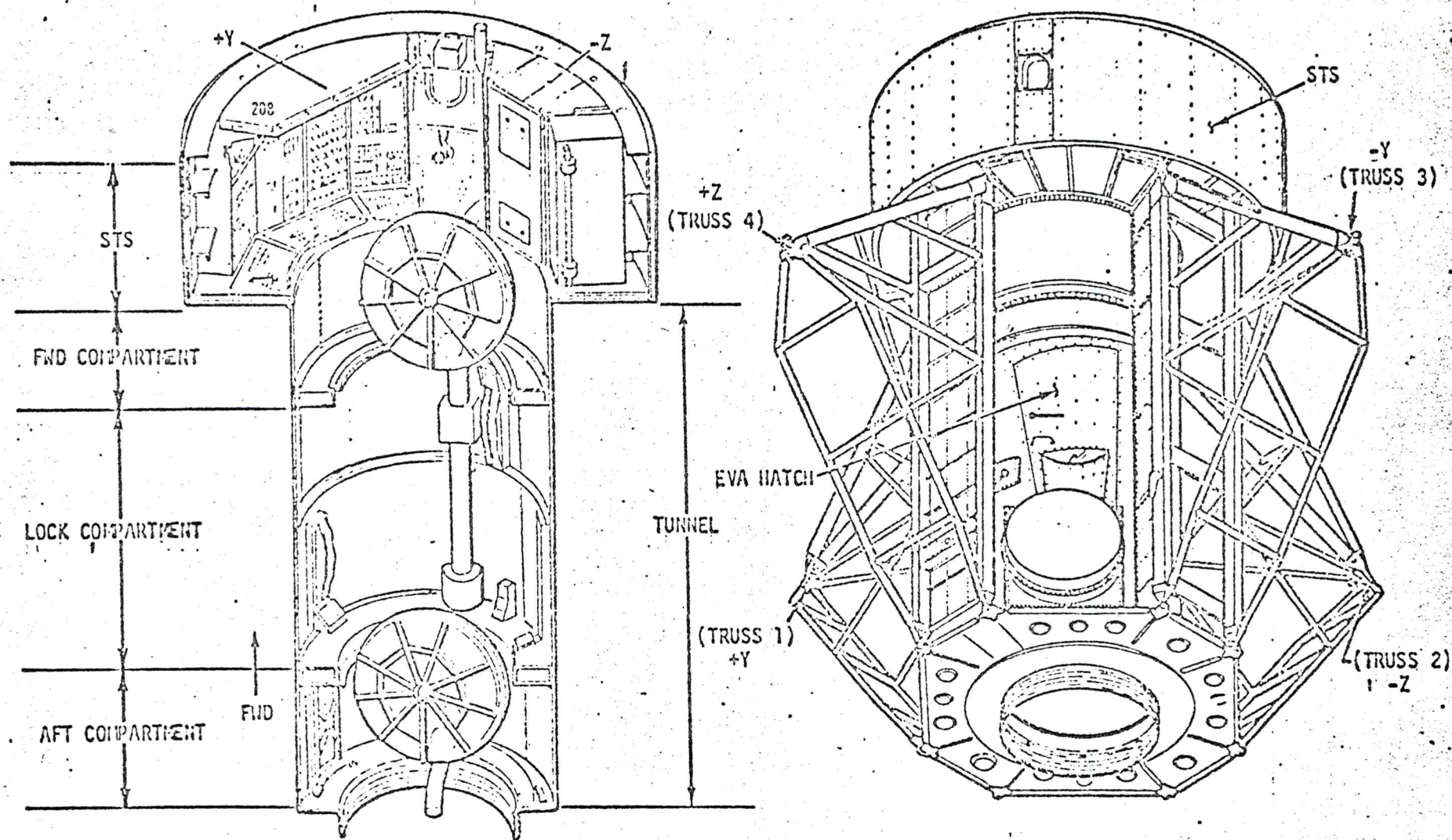
# MDA STRUCTURE



NOTE:  
91 LAYERS OF  
PERFORATED DOUBLE  
ALUMINIZED NYLAR  
WITH DACRON NET  
SPACERS.



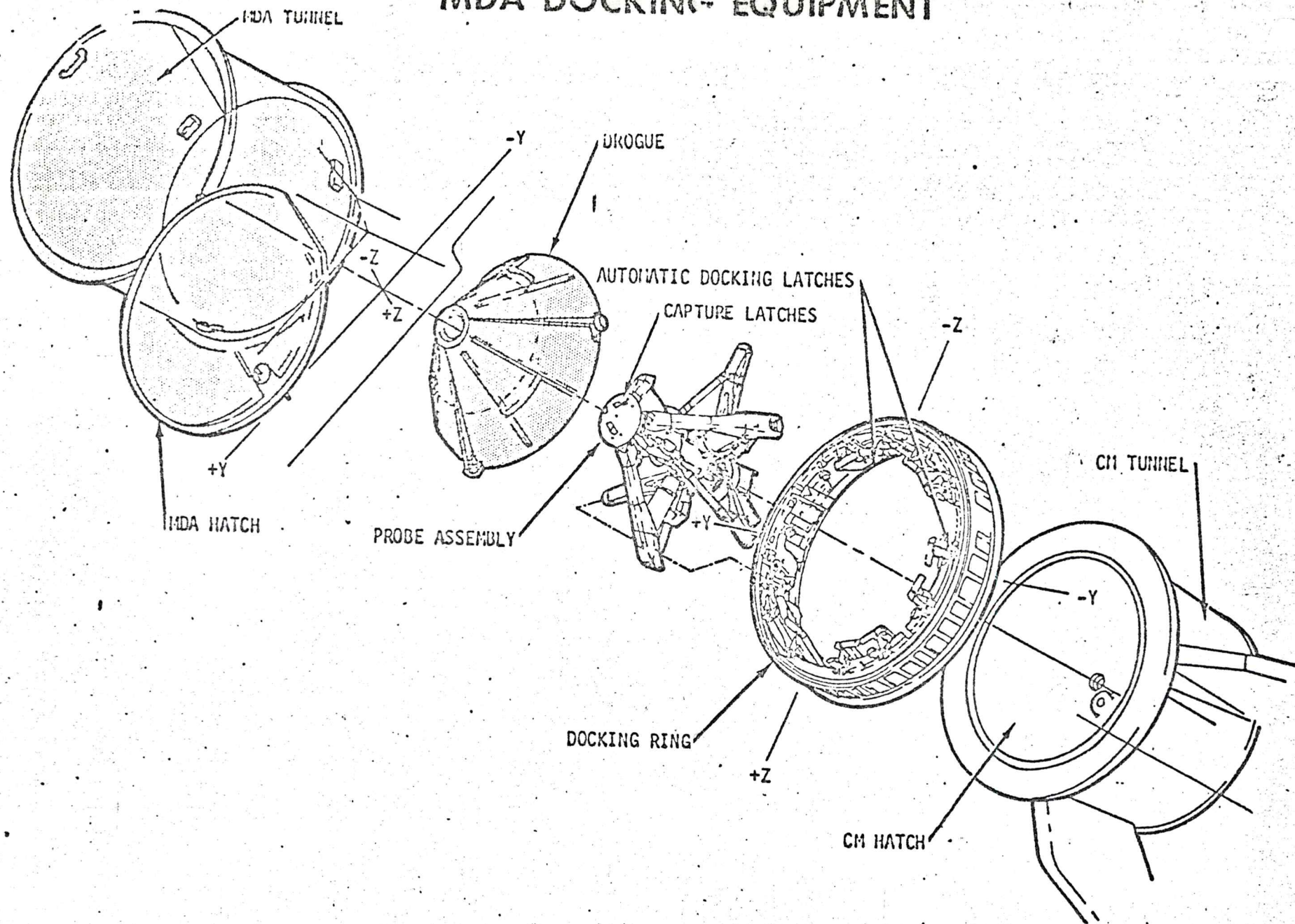
# AM CONFIGURATION



WEIGHT; 14,500 lbs.  
 VOLUME; 624 cu. ft.  
 HEIGHT; 17.5 ft.  
 DIAMETER: 10 ft. STS  
 5.5 ft. TUNNEL

1 January 1971

# MDA DOCKING EQUIPMENT



JANUARY 1971

# MDA DOCKING SEQUENCE

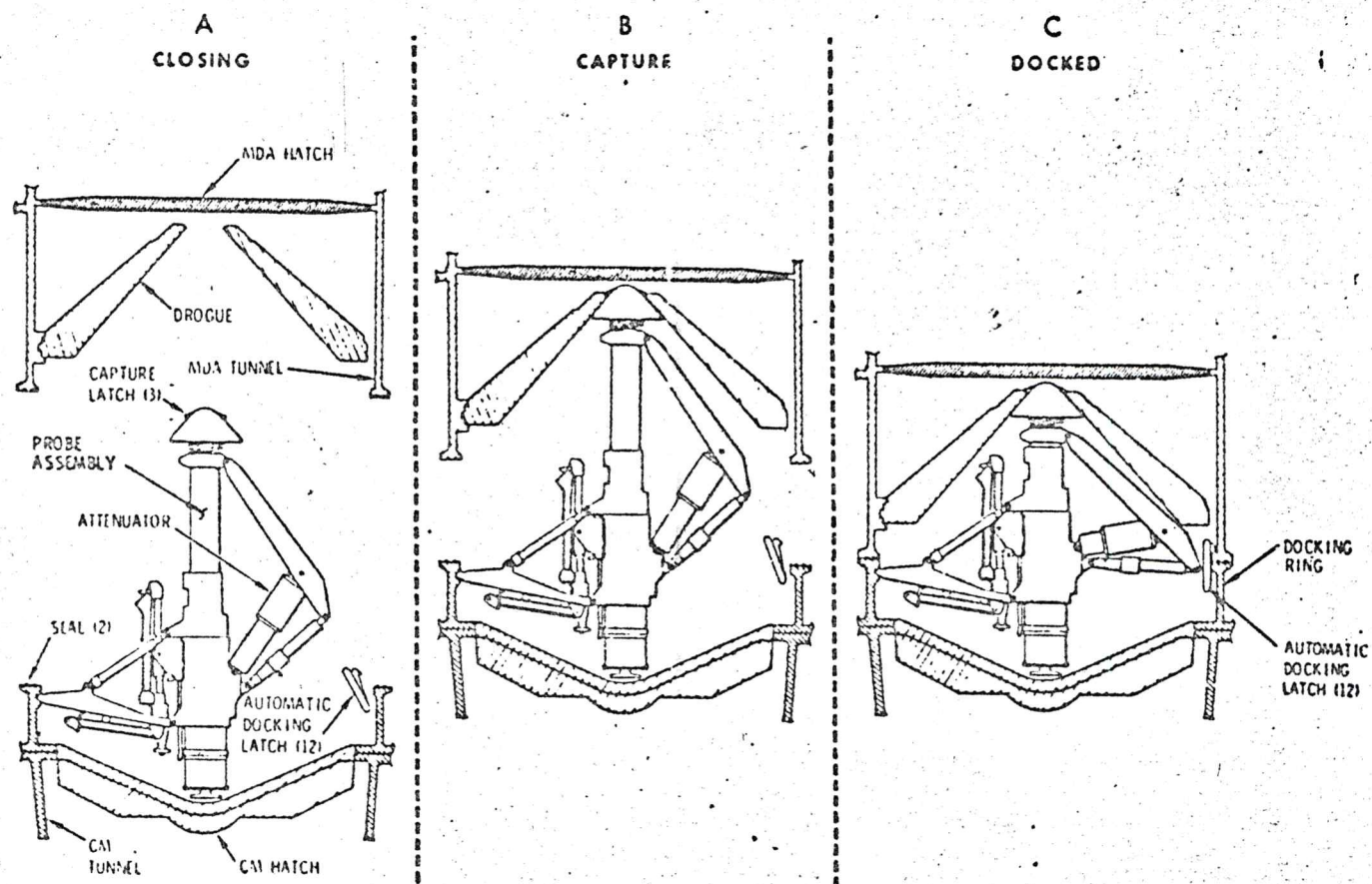
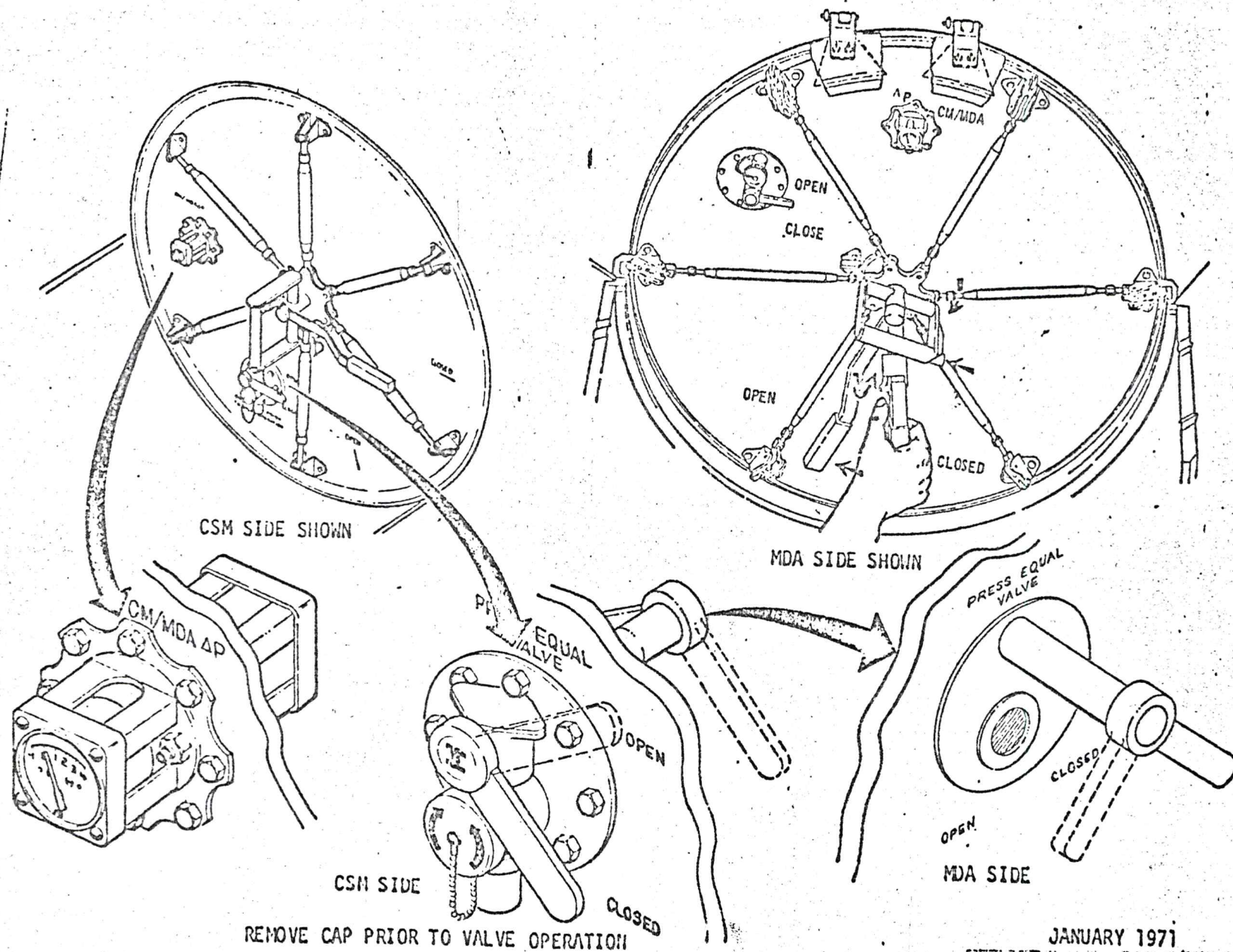


FIGURE 2.9-1

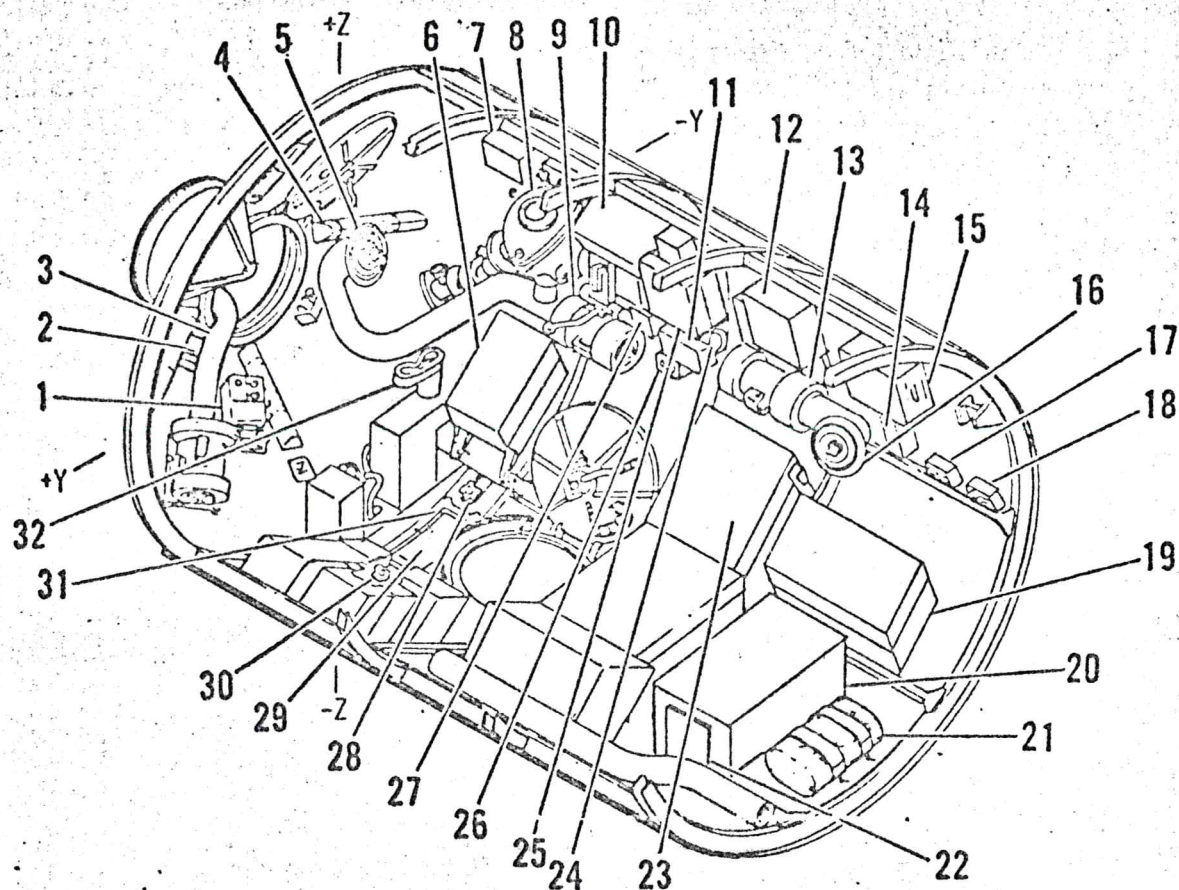
DATE 23 NOV 1970  
REVISED

REPORT HDC E0397

# MDA H TCH



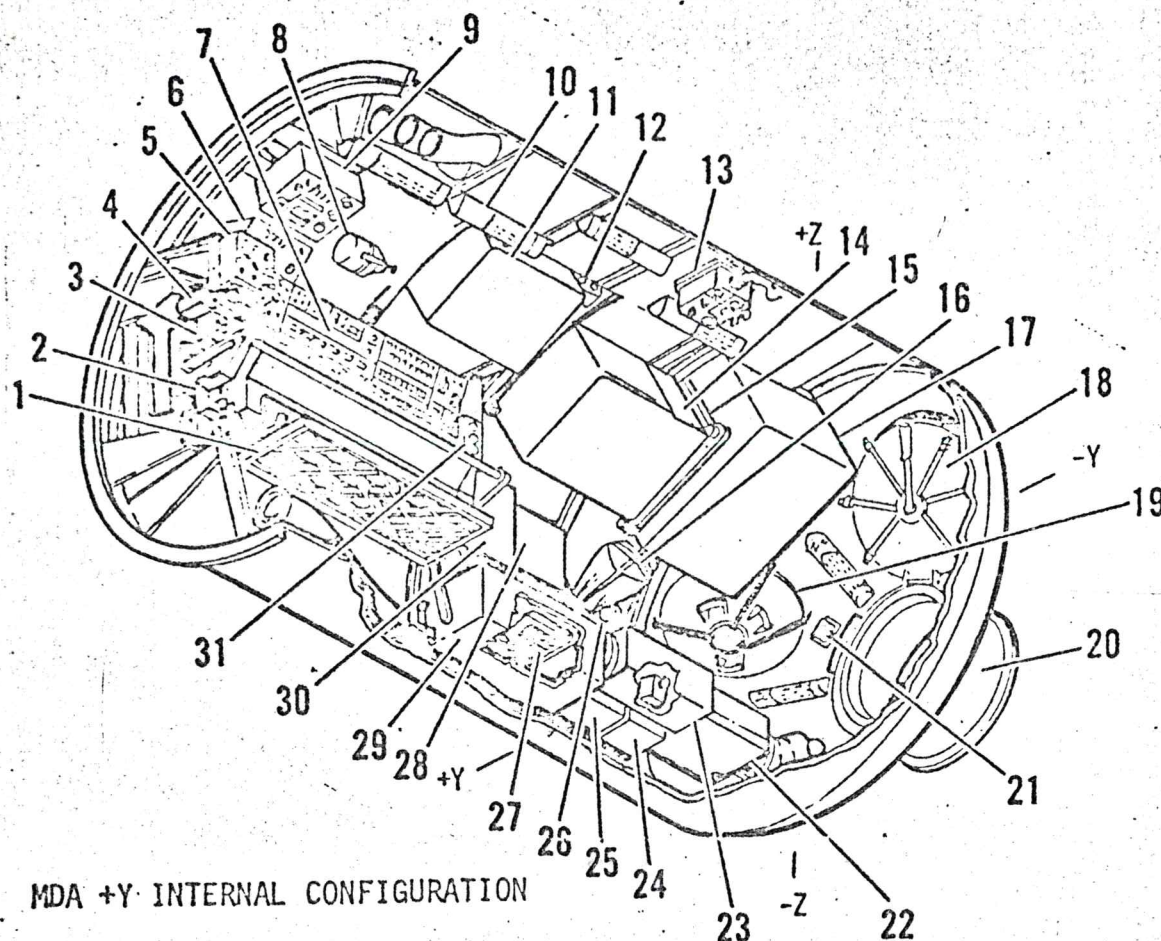
JANUARY 1971



MDA -Y INTERNAL CONFIGURATION

- |    |                                        |    |                                        |
|----|----------------------------------------|----|----------------------------------------|
| 1  | SPEAKER INTERCOM ASSY                  | 18 | HIGH POWER ACCESSORY OUTLET 2          |
| 2  | WINDOW HEATER CONTROL PANEL            | 19 | CONTAINER M168                         |
| 3  | DEPLOYED CSM/MDA INTERCHANGE DUCT      | 20 | S192 MULTISPECTRAL SCANNER             |
| 4  | FORWARD LIGHT                          | 21 | SECONDARY OXYGEN PACK (M165)           |
| 5  | AIR DIFFUSER 1                         | 22 | VC TREE                                |
| 6  | S190A MULTISPECTRAL CAMERAS            | 23 | CONTAINER M152                         |
| 7  | M479 FLAMMABILITY SPECIMEN CONT (M122) | 24 | M554 COMPOSITE CASTING CONT (M134)     |
| 8  | M512 MATERIALS PROCESSING FACILITY     | 25 | M551 METALS MELTING ACCESSORIES (M136) |
| 9  | MDA AREA FAN 1                         | 26 | UTILITY OUTLET 2                       |
| 10 | M512 CONTROL PANEL                     | 27 | M552 EXOTHERMIC BRAZING CONT (M120)    |
| 11 | M555 CRYSTAL SAMPLE CONT (M132)        | 28 | WINDOW COVER LATCH                     |
| 12 | S082B FILM CANISTER, FWD               | 29 | S190 WINDOW                            |
| 13 | MDA AREA FAN 2                         | 30 | WINDOW COVER CRANK                     |
| 14 | VS TREE (M170)                         | 31 | INSTALLED S190 WINDOW PROTECTOR        |
| 15 | S082A FILM CANISTER, AFT               | 32 | EREP VIEWFINDER TRACKER                |
| 16 | AIR DIFFUSER 2                         |    |                                        |
| 17 | UTILITY OUTLET 4                       |    |                                        |

P-2.0-41



MDA +Y INTERNAL CONFIGURATION

- |    |                                 |    |                        |
|----|---------------------------------|----|------------------------|
| 1  | ATM C&D FOOT RESTRAINT          | 17 | CONTAINER M124         |
| 2  | UTILITY OUTLET 2                | 18 | STOWED AXIAL HATCH     |
| 3  | TV INPUT STATION                | 19 | STOWED DROGUE          |
| 4  | VIDEO SWITCH                    | 20 | AXIAL TUNNEL           |
| 5  | SPEAKER INTERCOM ASSY           | 21 | INTERIOR LIGHTS SWITCH |
| 6  | RADIO NOISE BURST MONITOR PANEL | 22 | EREP C&D PANEL         |
| 7  | ATM C&D PANEL                   | 23 | S190 STOWAGE CONTAINER |
| 8  | FIRE EXTINGUISHER               | 24 | S192 ELECTRONICS ASSY  |
| 9  | RADIO NOISE BURST MONITOR PANEL | 25 | EREP TAPE RECORDER     |
| 10 | AFT EMERGENCY LIGHT             | 26 | VENT PANEL             |
| 11 | CONTAINER M157                  | 27 | UTILITY OUTLET 1       |
| 12 | HIGH POWER ACCESSORY OUTLET 1   | 28 | CONTAINER M125         |
| 13 | SPEAKER INTERCOM ASSEMBLY       | 29 | CONTAINER M143         |
| 14 | CONTAINER M141                  | 30 | CONTAINER M126         |
| 15 | STOWED S190 WINDOW PROTECTOR    | 31 | DIGITAL ADDRESS SYSTEM |
| 16 | STOWED PROBE                    |    |                        |

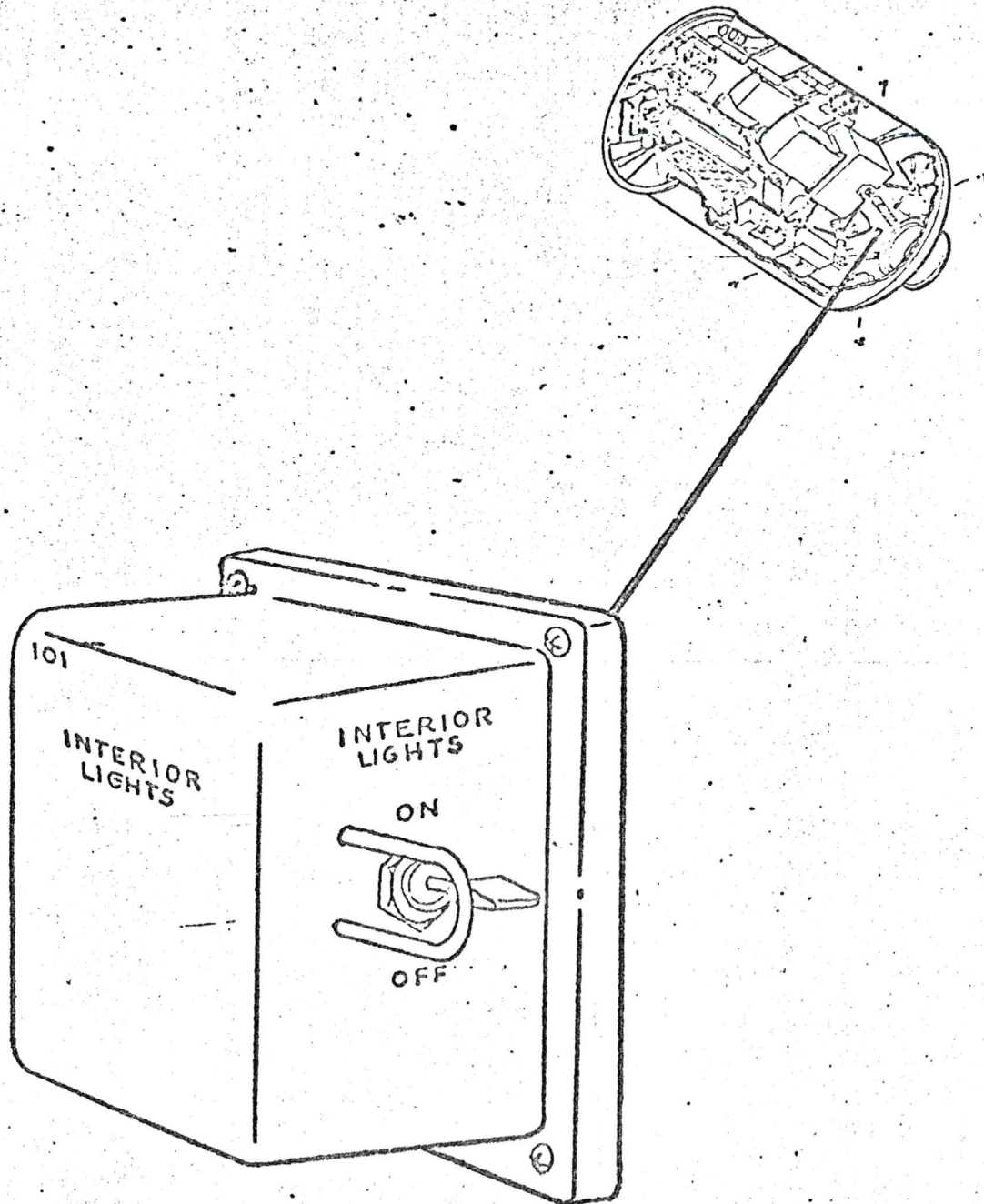
P-2.0-42

1:1

MARTIN MARIETTA CORPORATION

DATE 20 July 1970  
REVISED 22 March 1971

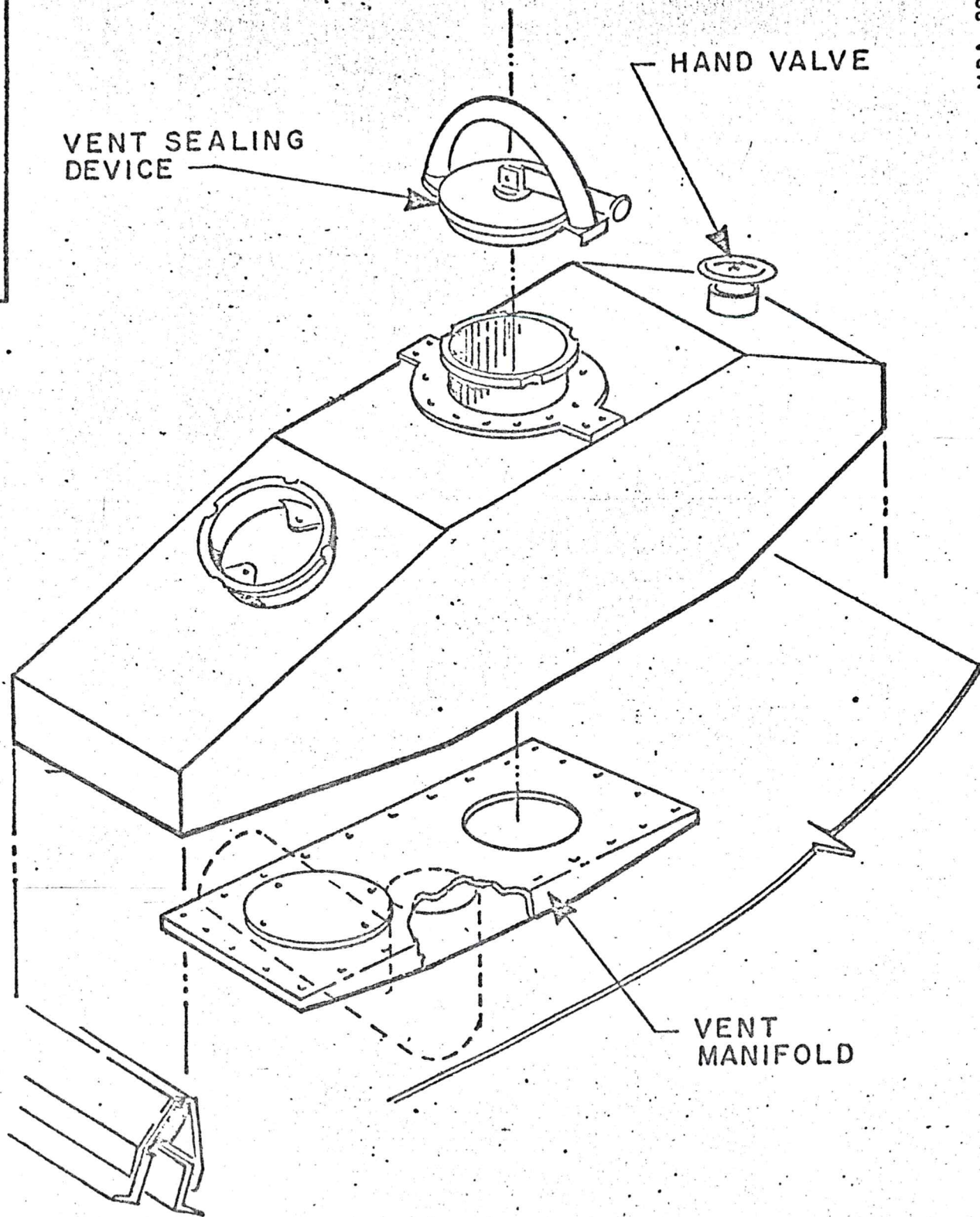
PAGE 3.0-6  
REPORT MSC-00946-MDA



INTERIOR LIGHTS 101

# MDA VENT PANEL ASSEMBLY

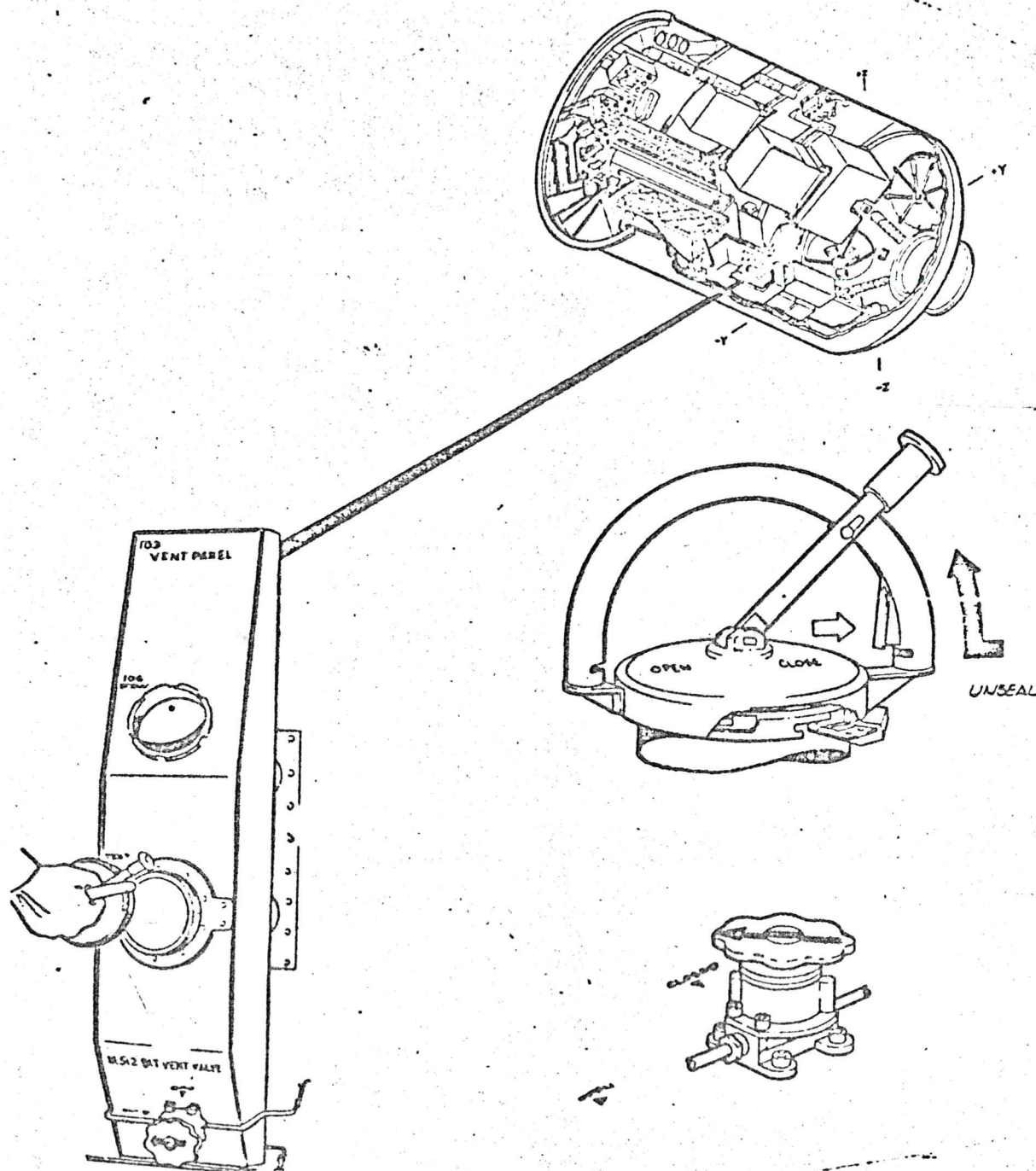
DENVER DIVISION



MDA 29

DATE 20 July 1970  
 REVISED 22 March 1971

PAGE 1.6-10  
 REPORT MSC-00946-MDA

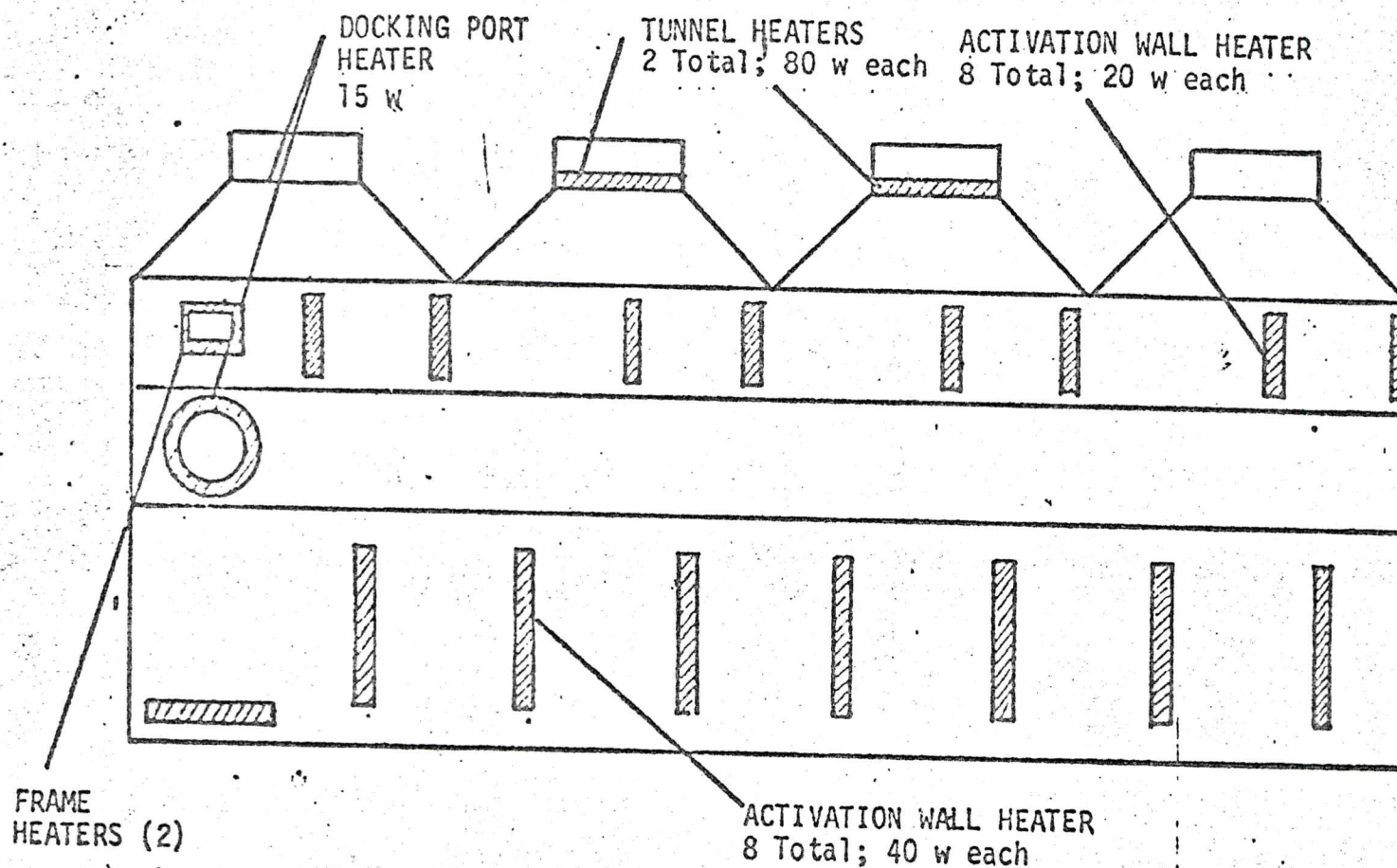


MDA VENTING SYSTEM  
 Figure 1.6-7

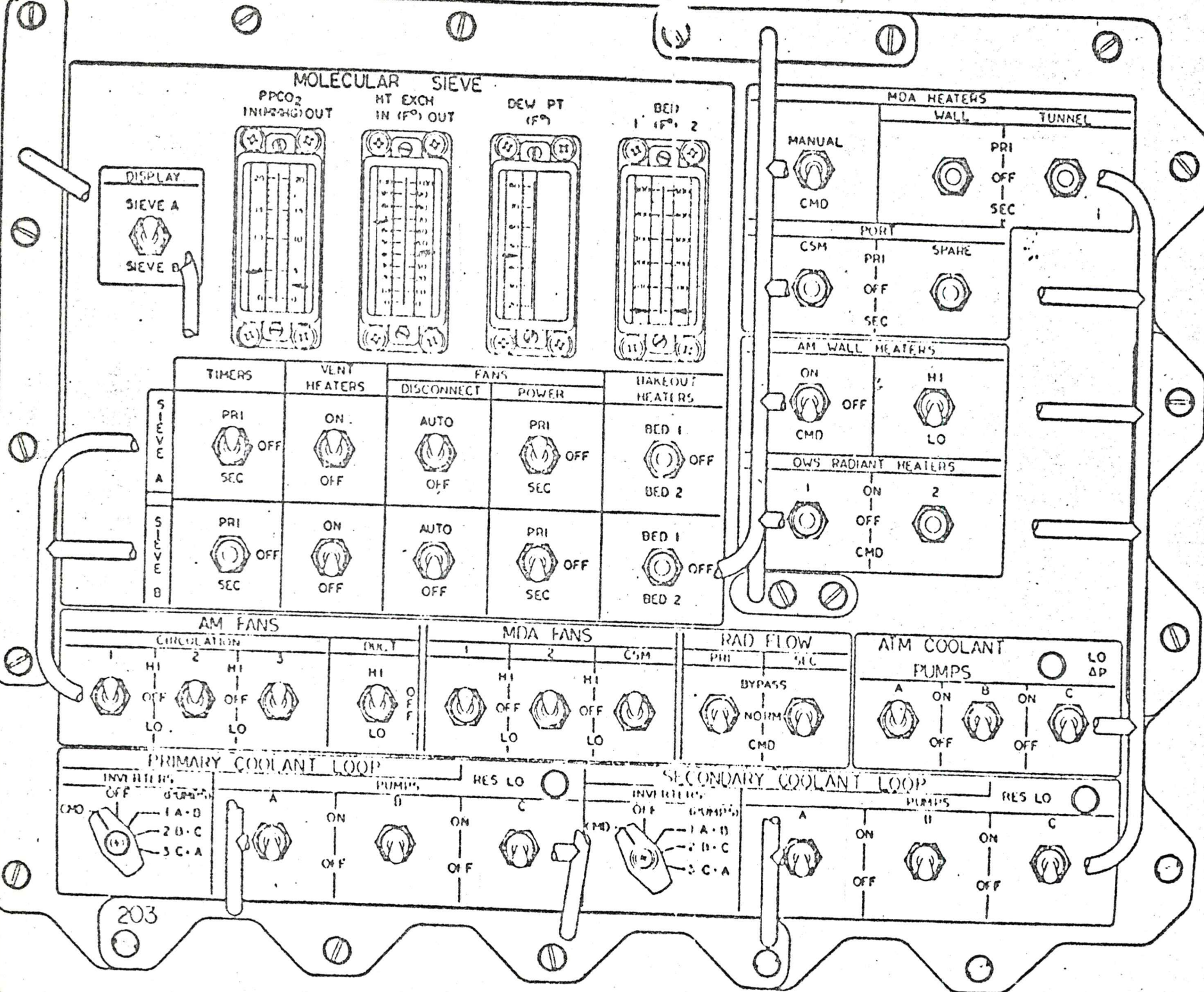
MDA-3-H

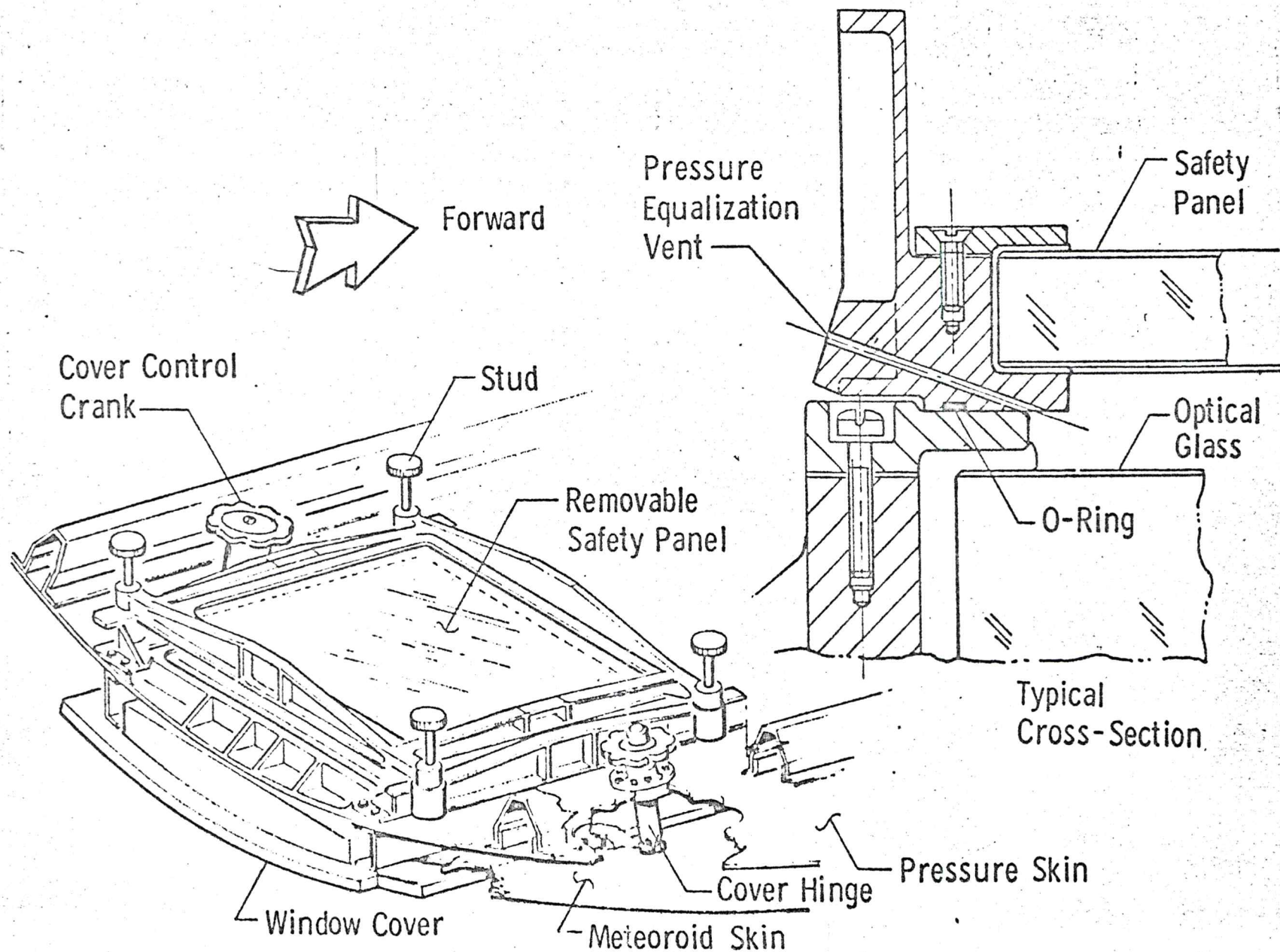
DATE 20 July 1970  
REVISED 22 March 1971

PAGE 2.4-3  
REPORT MSC-00946-MDA



MDA HEATER SYSTEM  
Figure 2.4.4-21

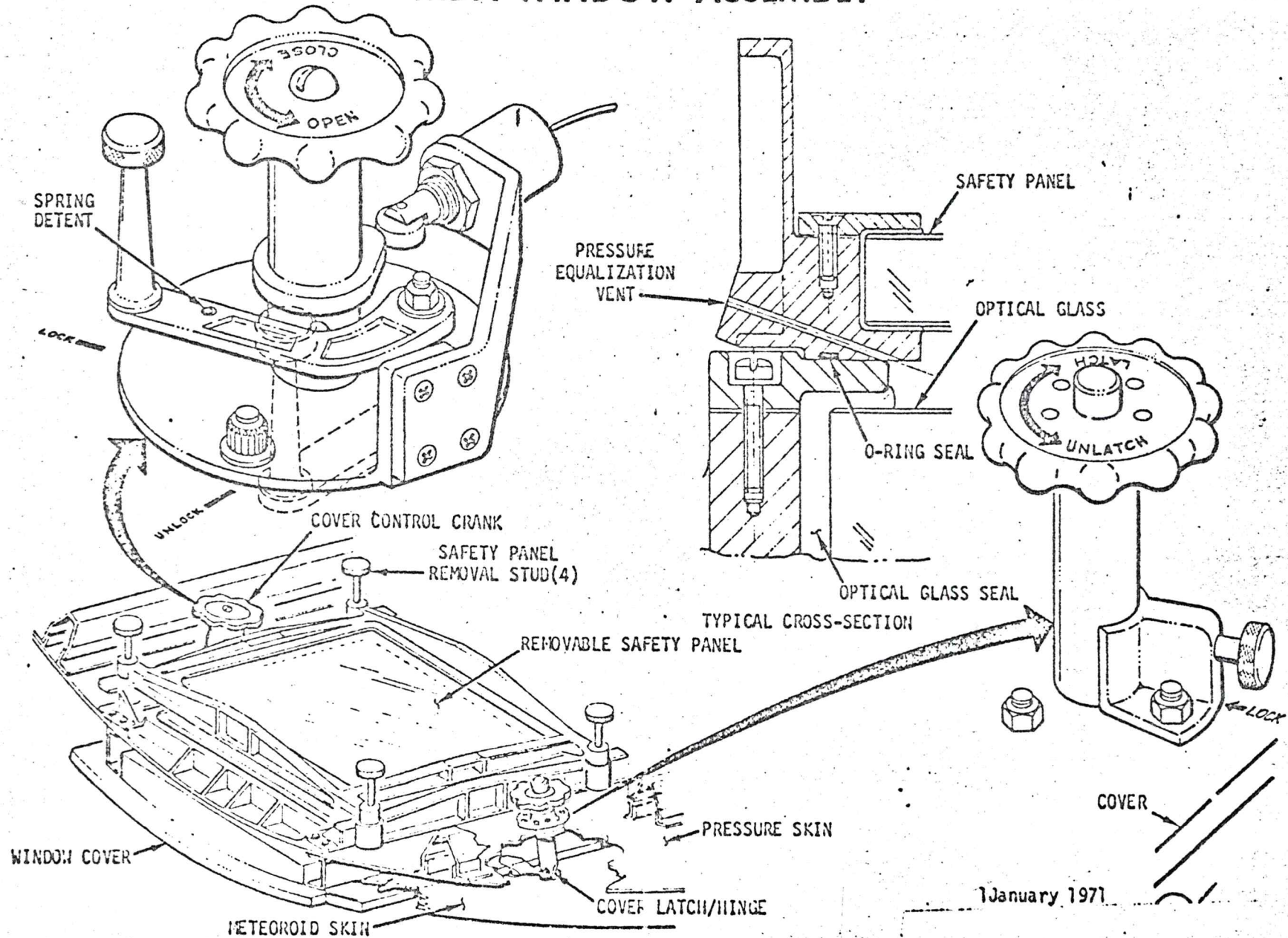




MSC-00946-MDA

Figure 2-3. Photography Window Assembly

# MDA WINDOW ASSEMBLY



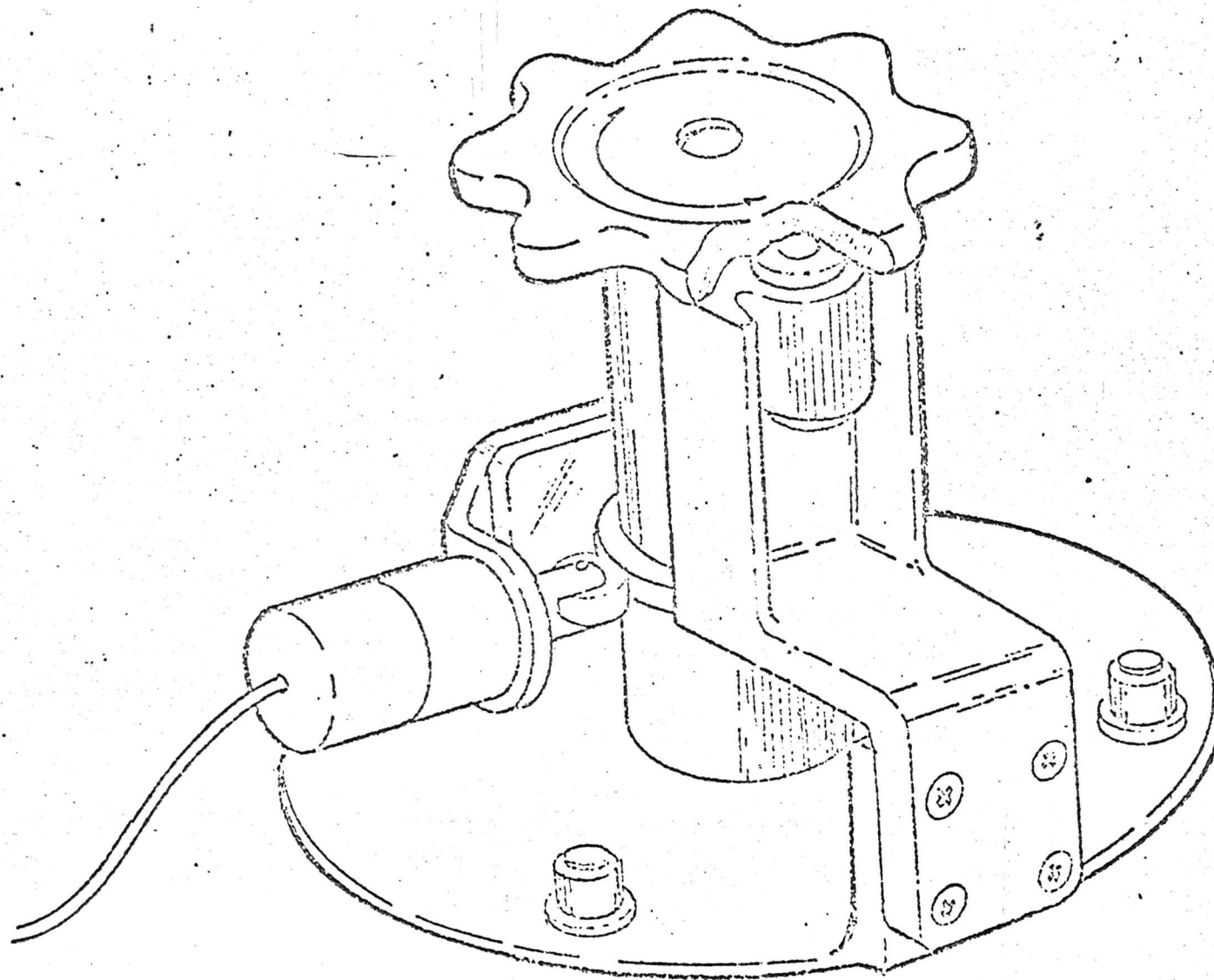
1 January 1971

9

49

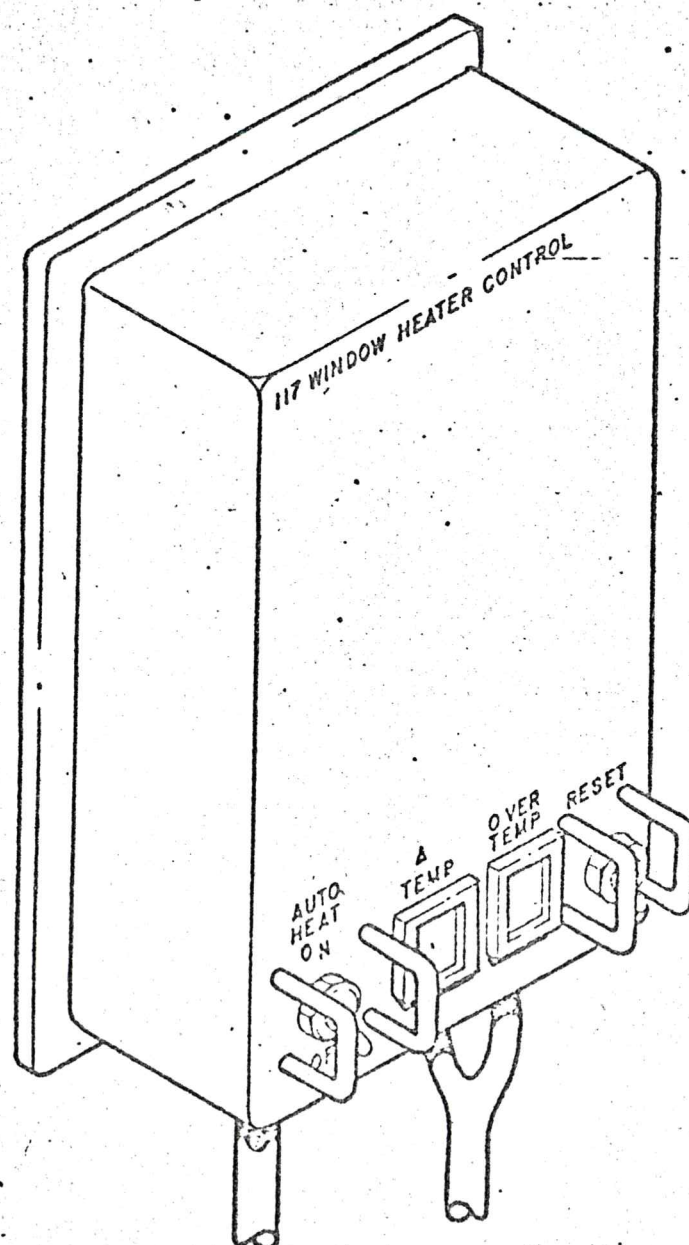
# WINDOW COVER CRANK

INVENTED BY [illegible]  
DENVER DIVISION



DATE 20 July 1970  
 REVISED 22 March 1971

PAGE 2.4-4  
 REPORT MSC-00946-MDA



MDA WINDOW HEATER CONTROL PANEL  
 Figure 2.4.4-22

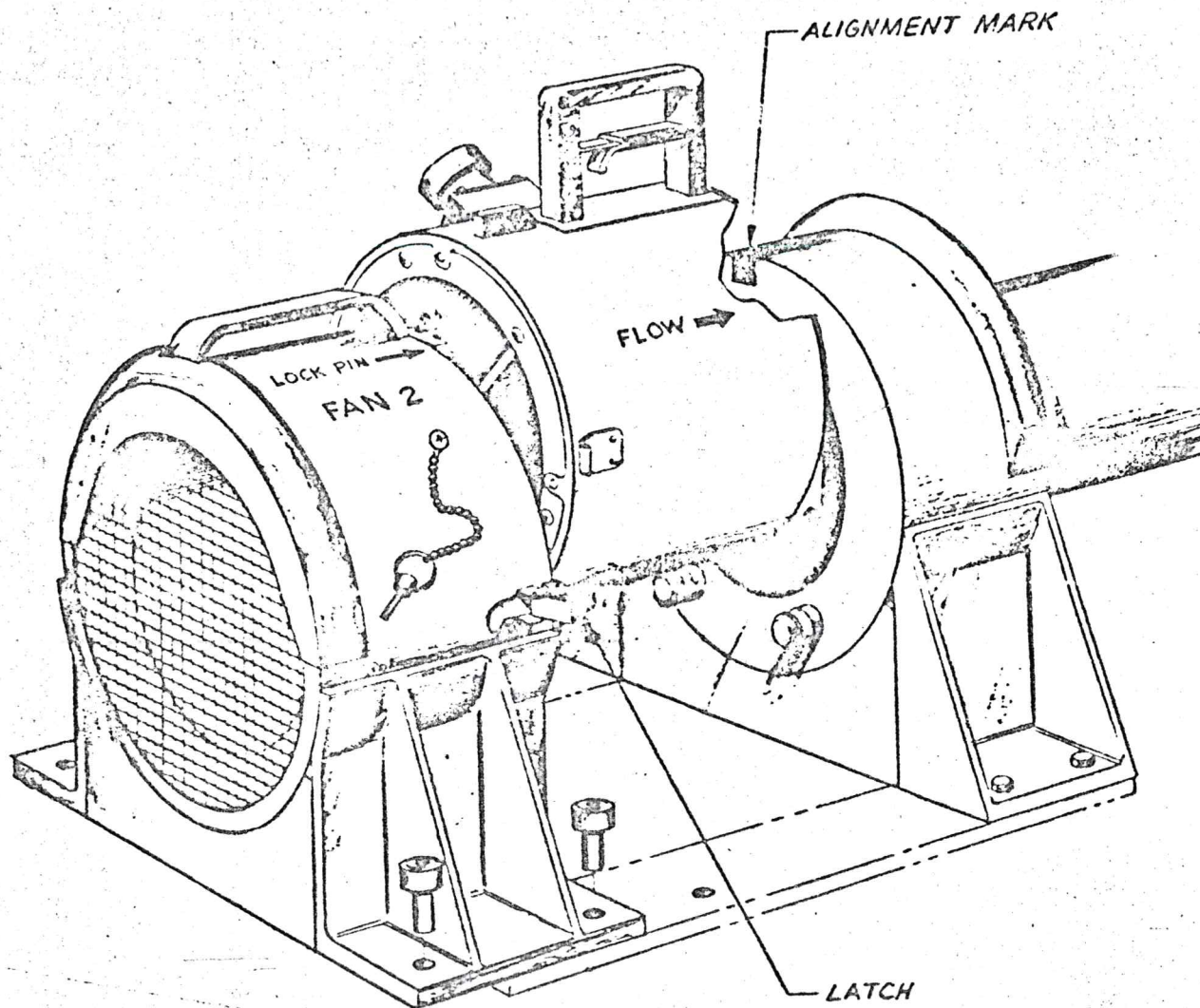
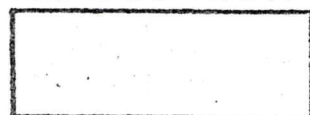


Figure 2-6. Atmospheric Circulation Fan Unit .

# MDA FANS

DENVER DIVISION

AM BUS NO.1



3.9A

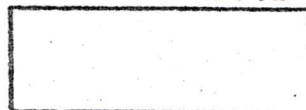
HI

OFF

LO

MDA CSM  
OUTLET 1

AM BUS NO.2



3.9A

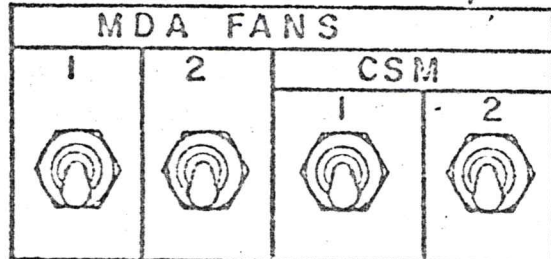
HI

OFF

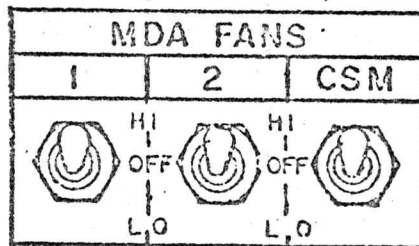
LO

MDA CSM  
OUTLET 2

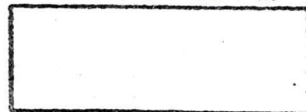
MDA FANS



MDA FANS



AM BUS NO.2



3.9A

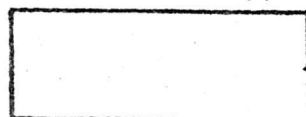
HI

OFF

LO

MDA FAN NO. 2

AM BUS NO.1



3.9A

HI

OFF

LO

MDA FAN NO. 1

AIRLOCK

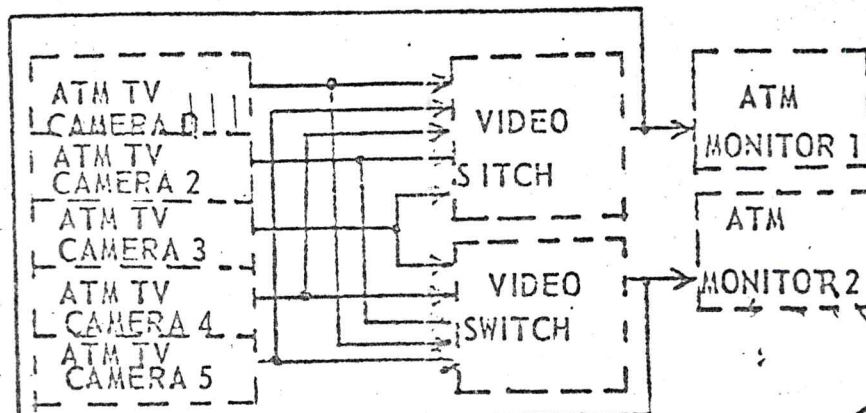
MDA

# OA TV SYSTEM

~~CONFIDENTIAL~~

DENVER DIVISION

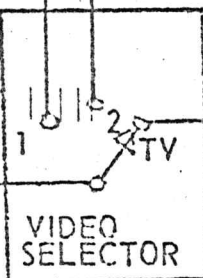
ATM



CSM

ANTENNA

CSM TV INPUT



S.BAND XMITTER

MDA

AM

PORTABLE COLOR TV CAMERA

TV INPUT STATION

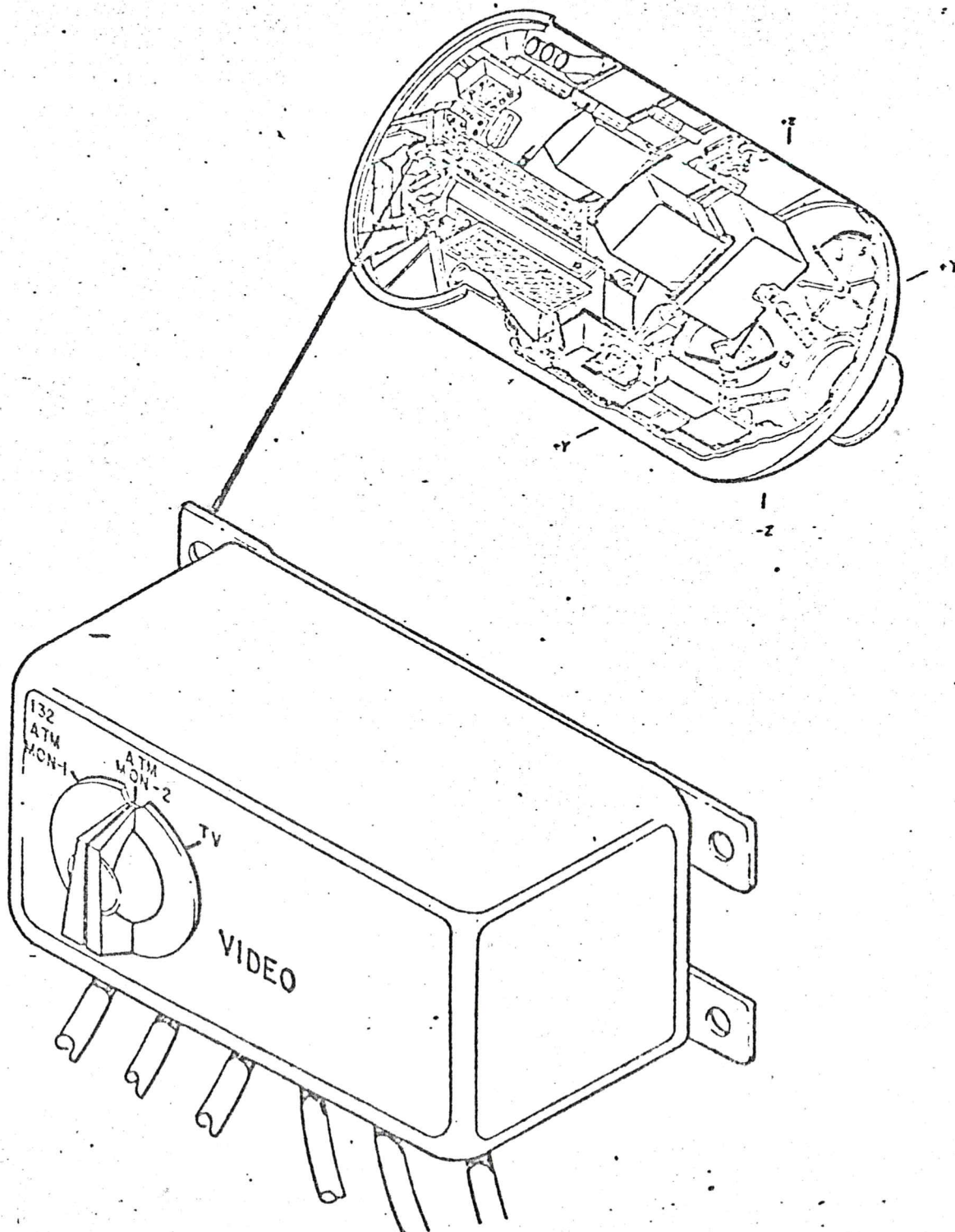
TV INPUT STATION

OWS

MARTIN MARIETTA CORPORATION

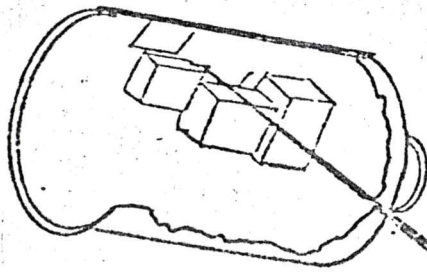
DATE 20 July 1970  
 REVISED 22 March 1971

PAGE 3.0-17  
 REPORT MSC-00946-MDA

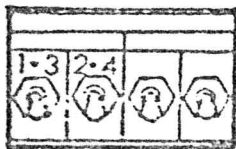
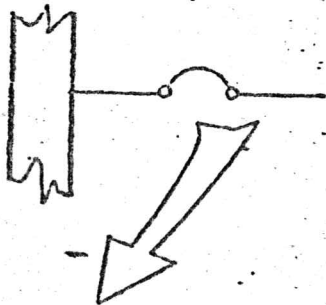


VIDEO PANEL 132

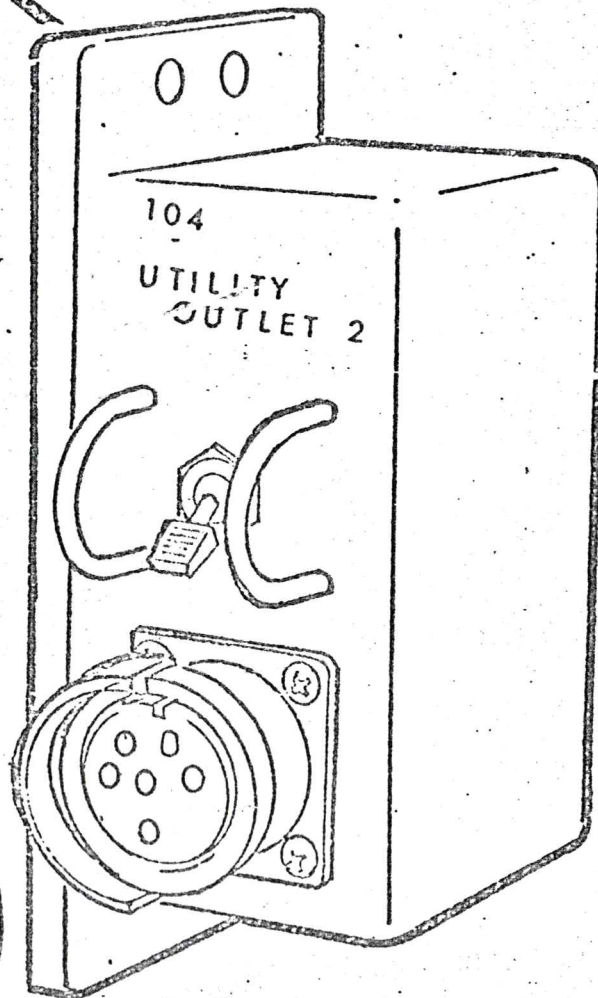
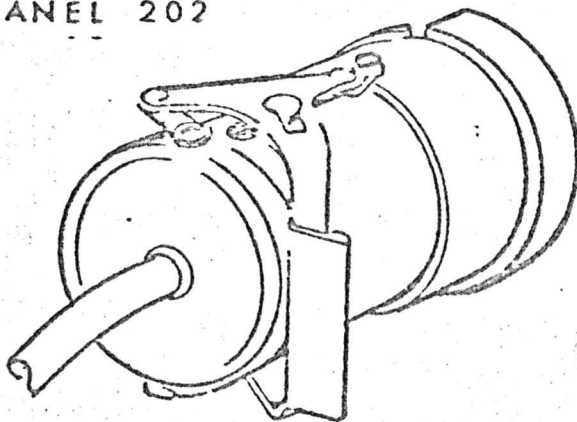
104  
112  
134  
T40



AM BUS 2



PANEL 202

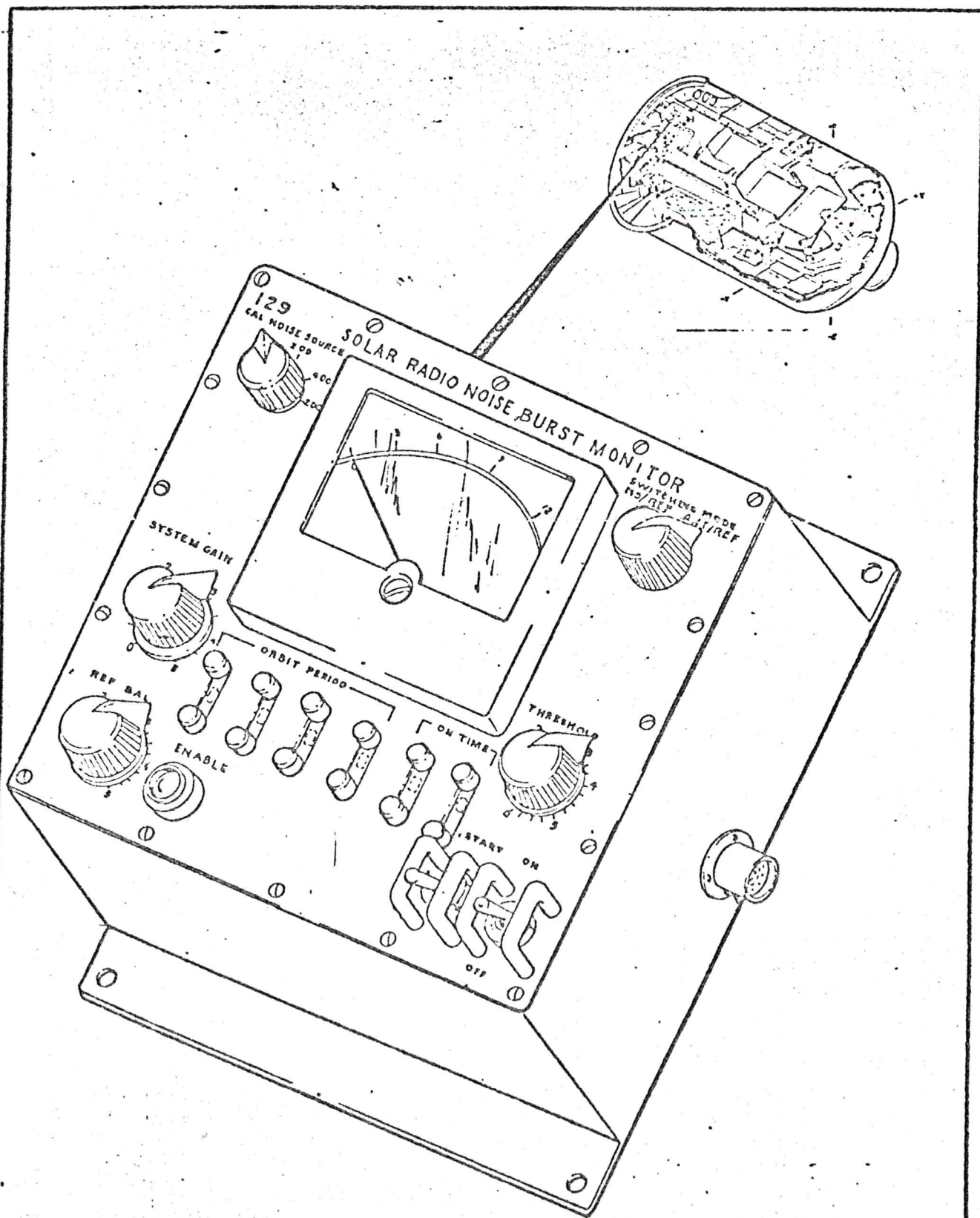


UTILITY OUTLETS

MARTIN MARIETTA CORPORATION

DATE 20 July 1970  
 REVISED 22 March 1971

PAGE 3.0-16  
 REPORT MSC-00946-MDA

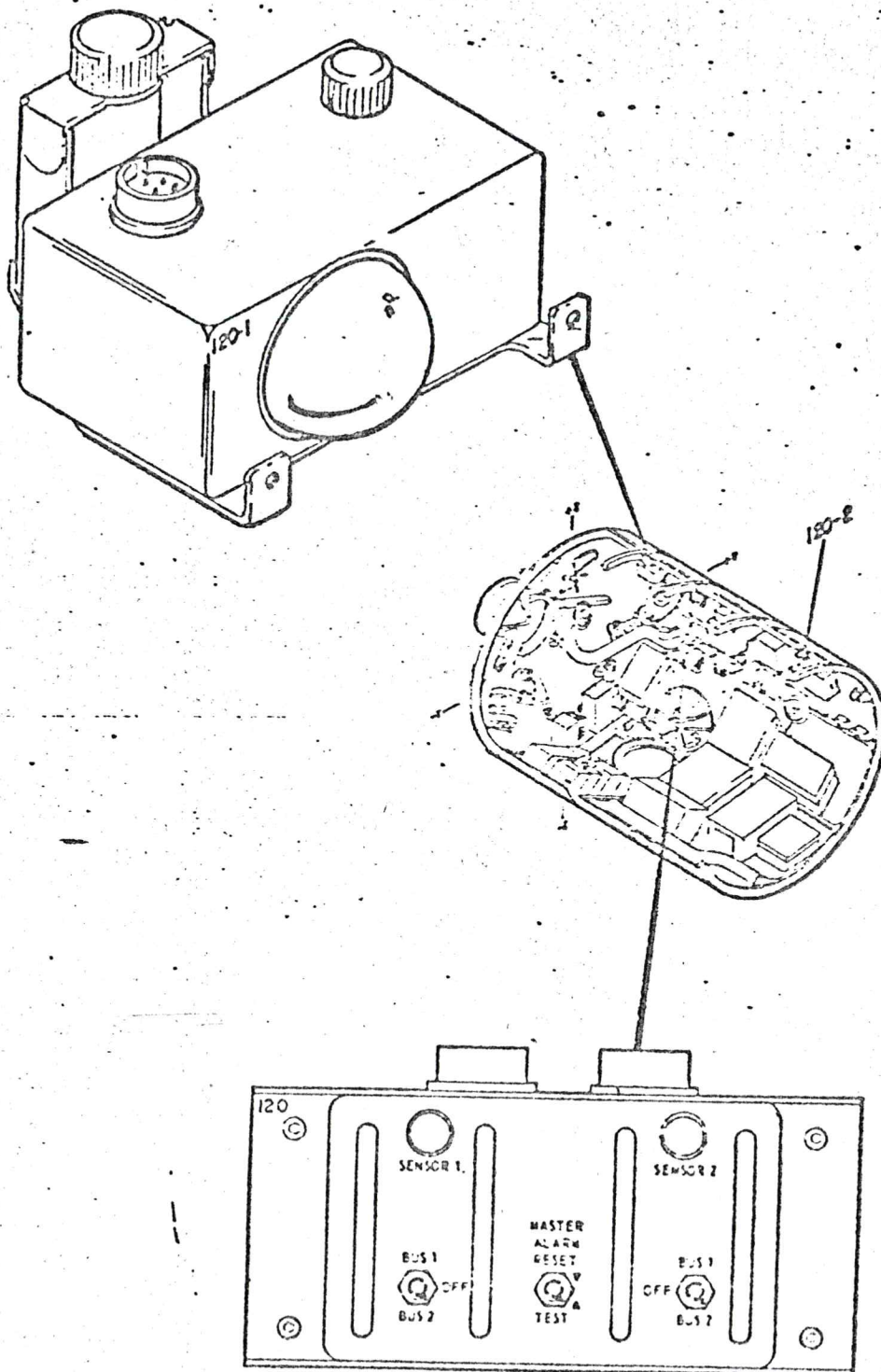


RADIO NOISE BURST MONITOR 128, 129

167-2-71

DATE 20 July 1970  
 BY 22 March 1971

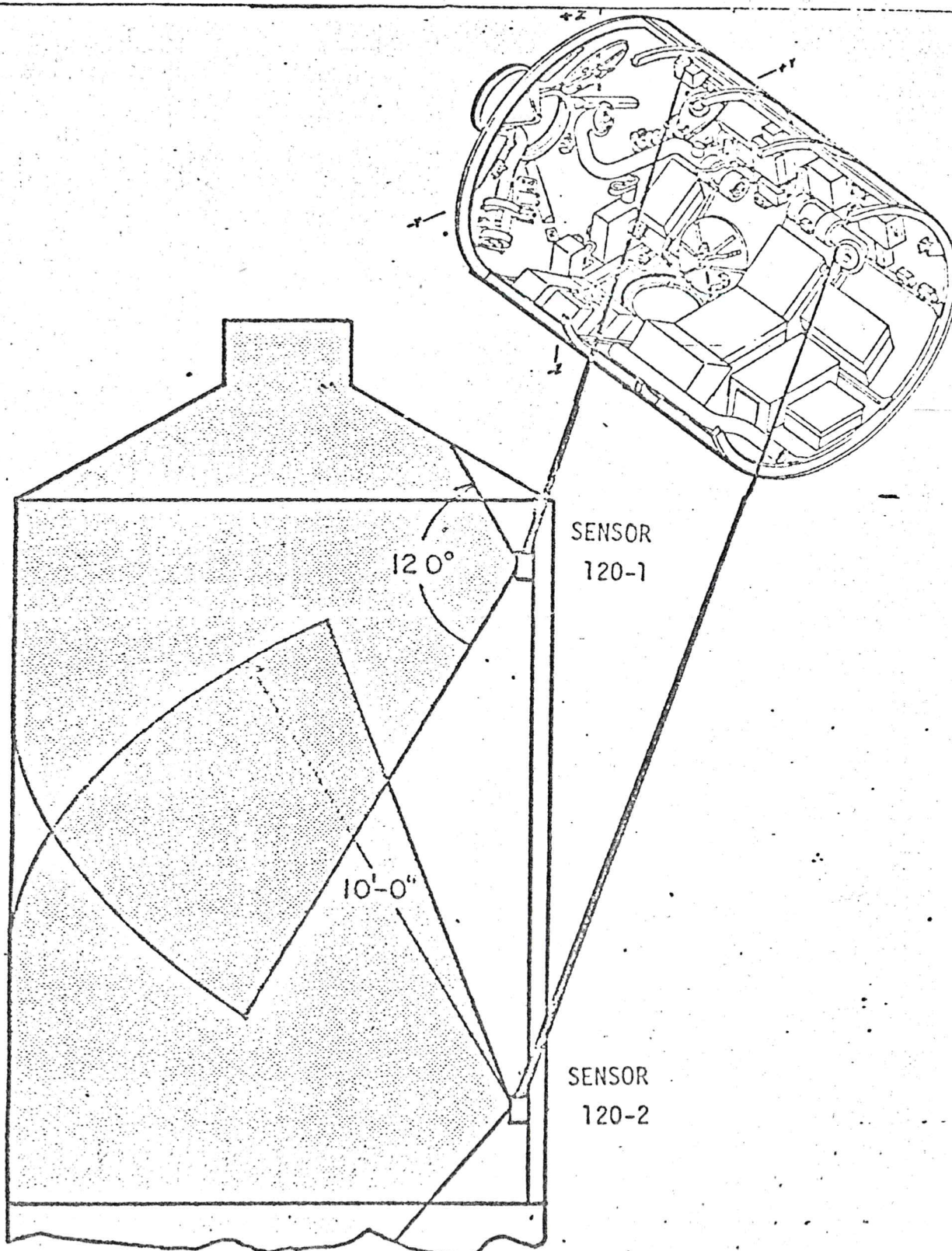
PAGE 3.0-15  
 REPORT MSC-00946-MDA



FIRE DETECTOR 120

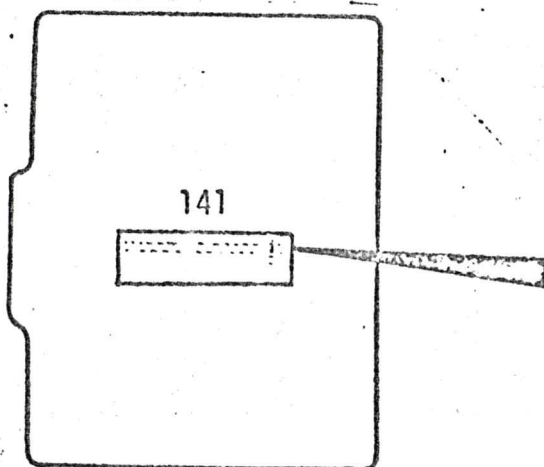
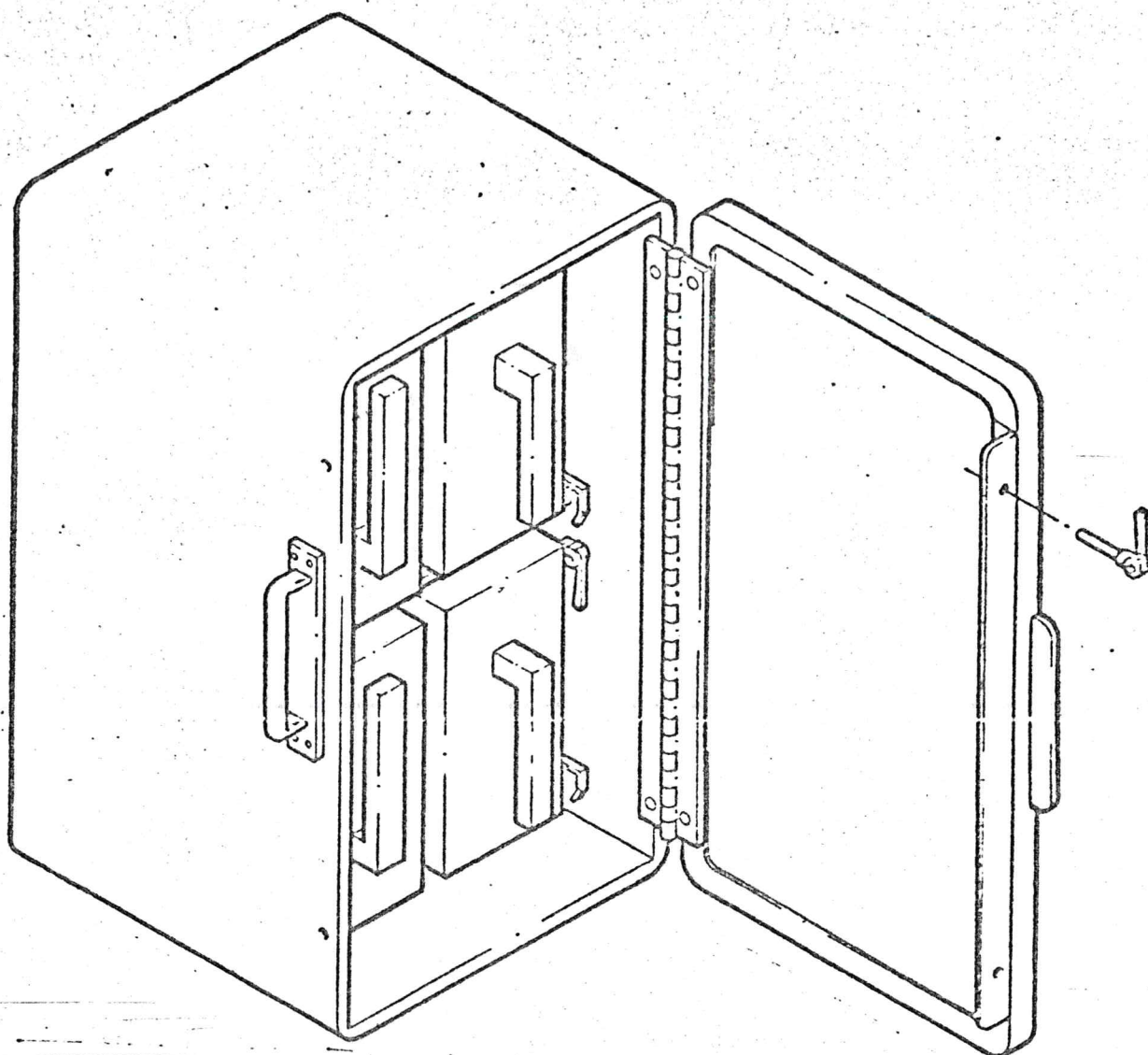
DATE 20 July 1970  
REVISED 22 March 1971

PAGE 2.8-3  
REPORT MSC-00946-MDA



MDA FIRE DETECTOR COVERAGE

Figure 2.8.3.2.1.1-2



141

|       |           |          |   |
|-------|-----------|----------|---|
| S082A | XUV SPECT | CAMERA   | 2 |
| S082B | XUV SLIT  | CAMERA   | 2 |
| S082A | XUV SPECT | CANISTER | 2 |
| S082B | XUV SLIT  | CANISTER | 2 |
|       |           | PIP PIN  | 1 |

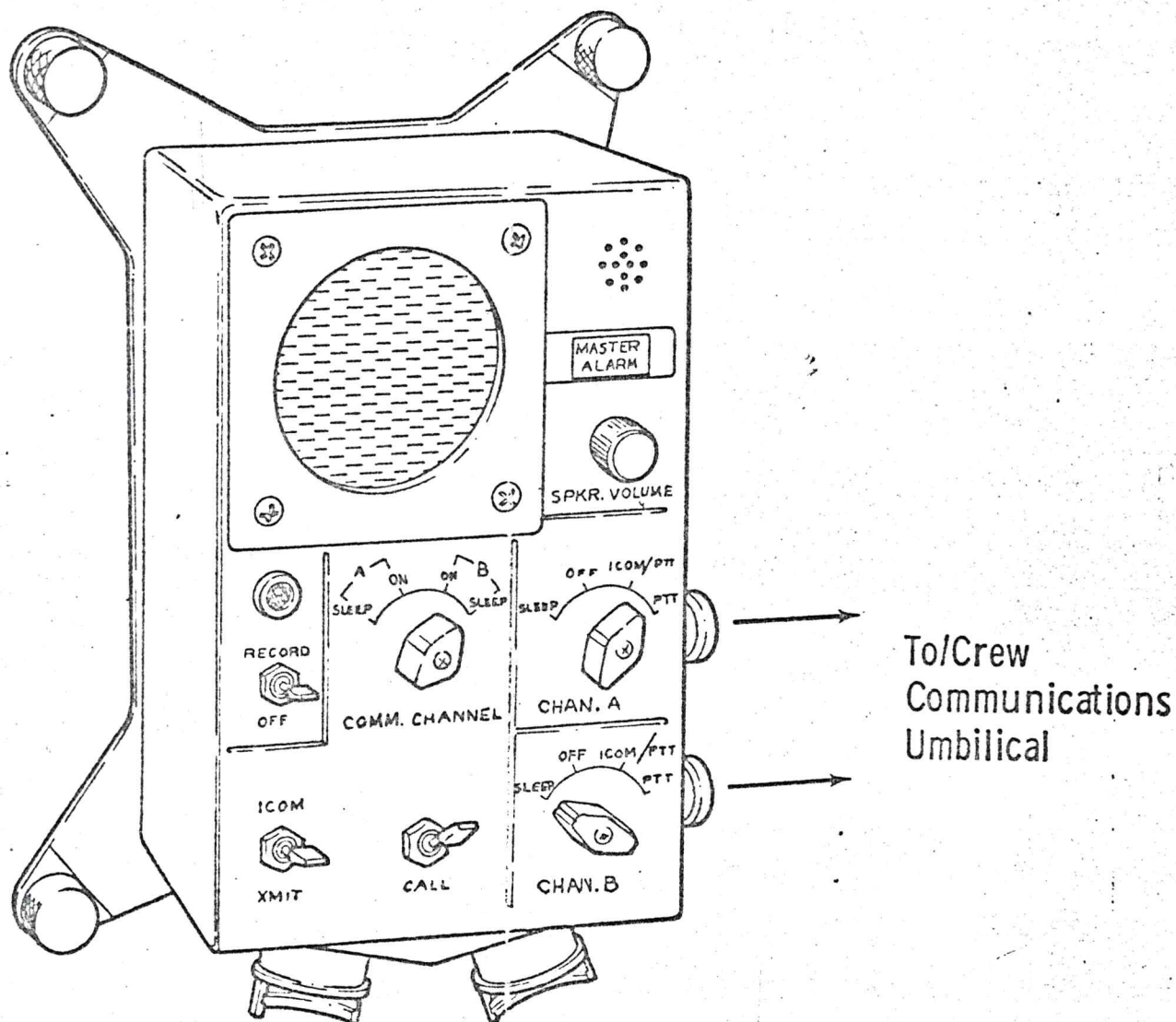


Figure 3-5. Audio Intercommunication Control Panel

